### Mario's Family Medicine In-Training Examination (ITE) Database

One of the most important objectives in creating this database is to help the physician in organizing and associating topics to increase memorization efficiency and retention. Another important objective is to allow the physician to focus on any particular organ systems or clinical category he/she might be interested by using simple search queries. For instance, in order to search for the organ system category of Cardiovascular, you only need to press Shift+Ctrl+F, type the letters "Car" after a "+" sign in the search box, i.e. type: "+Car" (do not include "), and click the search button, or to search for the clinical category of Care of Children, you only need to type: "+Cca" in the search box and click the search button. The ITE database was exported to adobe acrobat format to ease portability, readability and searchability. Other search examples include: questions that more than 50% of residents missed, type ">L".

This database is based on memorization techniques described here: http://www.web-us.com/memory/improving\_memory.htm, but if you have difficulty memorizing all that is written here, remember the warning from one of the smartest and most creative minds of our times, Albert Einstein: "the spirit of learning and creative thought are lost in strict rote learning."

#### **Organ Systems:**

Respiratory=Res; Cardiovascular=Car; Musculoskeletal=Mus; Gastrointestinal=Gas; Special Sensory=Sen; Endocrine=End; Integumentary=Int; Neurologic=Neu; Psychogenic=Psy; Reproductive: Female=Ref; Reproductive: Male=Rem; Nephrologic=Nep; Hematologic/Immune=Hem; Nonspecific=Non; Population-based Care=Pbc (Recommendations); Patient-based Systems=Pbs;

#### **Clinical Category:**

Adult Medicine=Adm; Care of the Surgical Patient=Csp; Maternity Care=Mac; Community Medicine=Com; Care of Children and Adolescents=Cca; Mental Health=Mhe; Care of the Elderly=Cel; Care of the Female Patient=Cfp; Emergent & Urgent Care=Euc.

Question numbers that have a "P" next to them were excluded from scoring for statistical reasons. Although these items did not perform as expected, they still have a correct answer and should still be reviewed for educational purposes.

This is a work in progress to facilitate UM/JMH Family Medicine residents to retain important medical facts for the better care and education of our patients, and to help us score among the best programs in the nation in our ITE and Board exams. This is a team effort, so I encourage everyone to send me suggestions and corrections to my e-mail <u>mjimenez3@med.miami.edu</u>. Please, send me the question number, for instance 07-087, and your pertinent comment or suggestion. I am looking to incorporate mnemonics into the database, so if you see a question where we can use a mnemonic, please forward it to me as well. To search for mnemonics, press Shift+Ctrl+F, and type: "Hint:", and all mnemonics will show in your search result.

Let's make the father of family medicine, Dr. Lynn Carmichael, proud!!! So, let us work as a team, encouraging each other to reach our full potentials as family physicians and human beings, empowering every single one of our patients to live longer, healthier, and more enjoyable lives, and always remembering the words of Dr. Carmichael: "The real healers are the patients. The goal of the physician should be to do whatever is necessary to enhance individuals' abilities to heal themselves. There is a tremendous amount of gratification and satisfaction that can come from this kind of medical practice."

"Talent wins games, but teamwork and intelligence wins championships." Michael Jordan..

"Individual commitment to a group effort - that is what makes a team work, a company work, a society work, a civilization work." Vince Lombardi.

<ul> <li>07-087.+Car+Pbc+Adm. Which one of the following screening intervals is most consistent with U.S. Preventive Services Task Force recommendations regarding screening for abdominal aortic aneurysm? A) Every 5 years in all patients age 65–75 who have ever smoked B) Every 5 years in females age 65–75 who have ever smoked C) One time in males age 65–75 who have ever smoked D) One time in all patients age 65–75 who have ever smoked E) No screening is recommended</li> <li>08-138. +Pbc+Adm. According to the U.S. Preventive Services Task Force, which one of the following patients should be screened for an abdominal aortic aneurysm?</li> <li>A) A 52-year-old male with type 2 diabetes mellitus</li> <li>B) An asymptomatic 67-year-old male smoker with no chronic illness</li> <li>C) A 69-year-old female with a history of coronary artery disease</li> <li>D) A 72-year-old male with hypertension and hypothyroidism</li> <li>09-205. +Car+Adm. A 65-year-old male asks you about an advertisement for vascular disease screening tests that will be out of pocket. The patient is asymptomatic, but has a 45-pack-year smoking history. Based on U.S. Preventive Services Task Force guidelines (USPSTF), which one of the following screening tests would you recommend for this patient? A) Duplex ultrasonography of both</li> </ul>	Abdominal aortic aneurysm. <b>07-087.</b> Recommendations; <b>ANS=C.</b> In 2005 the U.S. Preventive Services Task Force (USPSTF) recommended <u>one-time</u> screening for abdominal aortic aneurysm (AAA) by ultrasonography in men age 65–75 who have ever smoked. The USPSTF made no recommendation for or against screening for AAA in men age 65–75 who have never smoked, because of its lower prevalence in this group, and recommended against routine screening for AAA in women, because of the lower prevalence of large AAAs in women. Abdominal aortic aneurysm. <b>08-138.</b> Recommendation. <b>ANS=B.</b> The U.S. Preventive Services Task Force has released a statement summarizing recommendations for screening for <u>abdominal aortic aneurysm</u> (AAA). The guideline recommends <u>one-time screening with ultrasonography for AAA in men 65–75 years of age who have ever smoked.</u> No recommendation was made for or against screening women. Men with a strong family history of AAA should be counseled about the risks and benefits of screening as they approach 65 years of age. Abdominal aortic aneurysm. <b>09-205.</b> Although screening recommendations for abdominal aortic aneurysm ya 65-year-old male with a history of smoking should be screened by ultrasonography. <b>ANS=C.</b> The other tests are not indicated in asymptomatic patients.
carotid arteries B) Ultrasonography of the thoracic aorta C) Ultrasonography of	
the abdominal aorta D) An ankle-brachial pressure index 10-125. +Car+Csp. An asymptomatic 68-year-old male sees you for a health	Abdominal aortic aneurysm. <b>10-125.</b> The U.S. Preventive Services Task Force
<ul> <li>maintenance visit. He is a former cigarette smoker, but quit 20 years ago.</li> <li>According to the U.S. Preventive Services Task Force, evidence shows that the potential benefit exceeds the risk for which one of the following screening tests in this patient?</li> <li>A) A chest radiograph</li> <li>B) Abdominal ultrasonography</li> <li>C) Ophthalmic tonometry</li> <li>D) A prostate-specific antigen level</li> <li>E) An EKG</li> </ul>	(USPSTF) recommends one-time screening for abdominal aortic aneurysm (AAA) by ultrasonography in men aged 65–75 who have ever smoked (SOR B, USPSTF B Recommendation). <b>ANS=B.</b> The USPSTF found good evidence that screening these patients for AAA and <b>surgical repair of large AAAs</b> (≥□5.5 cm) <b>leads to decreased AAA-specific mortality.</b> There is good evidence that abdominal ultrasonography, performed in a setting with adequate quality assurance (i.e., in an accredited facility with credentialed technologists), is an accurate screening test for AAA. There is also good evidence of important harms from screening and early treatment, including an increased number of operations, with associated clinically significant morbidity and mortality, and short-term psychological harms. Based on the moderate magnitude of net benefit, the USPSTF concluded that the benefits of screening for AAA in men aged 65–75

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	who have ever smoked outweighs the potential harm. While they may be considered for making the diagnosis in patients who have symptoms, none of the other tests listed have evidence to support a net benefit from their use as routine screening tools in patients like the one described here.
<b>07-171.</b> +Ref+Cfp. A 33-year-old female presents with 3 months of irregular vaginal bleeding. Prior to this her menstrual periods were normal. Which one of the following is the most appropriate initial laboratory test for this patient? A) Hemoglobin and hematocrit B) TSH C) LH and FSH D) Estradiol E) hCG	Abnormal vaginal bleeding. ANS=E. In women of childbearing age, the most likely cause of abnormal vaginal bleeding is pregnancy; thus, the most appropriate initial test would be an hCG level. Once pregnancy has been excluded, patient history would guide further testing. Iatrogenic causes, usually resulting from certain medicines or supplements, are the next most common cause in this age group, followed by systemic disorders. Hemoglobin and hematocrit would be appropriate only if the patient seemed acutely anemic due to the abnormal bleeding.
<ul> <li>07-052. +Ref+Mac+Cfp. A healthy 36-year-old female presents with vaginal bleeding 3 weeks after a missed menstrual period. A pelvic examination reveals a dilated cervix with products of conception visible in the vaginal vault. Which one of the following is the most likely cause of this condition?</li> <li>A) Caffeine use</li> <li>B) Advanced maternal age</li> <li>C) Previous history of elective abortion</li> <li>D) Recent sexual activity</li> <li>E) Chromosomal abnormality</li> </ul>	Abortion. 07-052. Spontaneous. ANS=E. Although heavy caffeine use, advanced maternal age, and a previous history of multiple elective abortions are all considered risk factors for spontaneous abortion, the most common cause, which accounts for nearly 50% of spontaneous abortions, is chromosomal abnormalities. Most chromosomal abnormalities are random events, such as maternal and paternal gametogenesis errors, dispermy, and nondisjunction. Sexual activity does not raise the risk of spontaneous abortion in women with uncomplicated pregnancies.
<b>08-240.</b> +Res+Adm. A 34-year-old male presents with a 10-lb weight loss, subjective fever, chills, and a cough for the past 6 weeks. The cough has gradually worsened and now produces blood-tinged, foul-tasting mucus. His medical history includes poorly controlled type 1 diabetes mellitus that has resulted in several instances of symptomatic hypoglycemia over the past year. He smokes cigarettes, but only on social occasions when he has a drink. On examination he has a temperature of 38.9°C (102.0°F), a harsh cough, significant dental caries and periodontal disease, and normal breath sounds and chest resonance. Laboratory studies indicate the presence of mild leukocytosis with a left shift, moderately elevated blood glucose, and minimally elevated BUN and creatinine. A sputum Gram stain indicates mixed flora. A chest radiograph is shown in. Of the following choices, which one would be the best empirical treatment while awaiting the results of cultures, testing for acid-fast bacilli, and a tuberculin test? A) A four-drug antitubercular regimen B) Trimethoprim/sulfamethoxazole (Bactrim, Septra) C) Clindamycin (Cleocin) D) Doxycycline plus a fluoroquinolone	Abscess, lung Anaerobic. 08-240. ANS=C. As with pulmonary tuberculosis, the symptoms of lung abscess are most often insidious and prolonged, but when coupled with the development of putrid sputum, the diagnosis of lung abscess seems much more likely. In this case, the chest radiograph confirms the diagnosis by demonstrating a partially fluid-filled cavitary lesion. Abscesses of the lung most commonly result from aspiration of oral bacteria, including anaerobes, which is much more likely with coexisting periodontal disease and the potential for aspiration, such as might occur with seizures or hypoglycemic episodes. When selecting an initial antibiotic regimen, the physician should consider the probability of a polymicrobial infection with oral flora, including anaerobes. Of the choices provided, only clindamycin will provide anaerobic coverage. Treatment length varies, but often a course of 4–6 weeks is required. Surgical intervention is rarely required.
<ul> <li>10-188. +Res+Adm. A 25-year-old white male who has a poorly controlled major seizure disorder and a 6-week history of recurrent fever, anorexia, and persistent, productive coughing visits your office. On physical examination he is noted to have a temperature of 38.3 °C (101.0 °F), a respiratory rate of 16/min, gingival hyperplasia, and a fetid odor to his breath. Auscultation of the lungs reveals rales in the mid-portion of the right lung posteriorly. Which one of the following is most likely to be found on a chest radiograph?</li> <li>A) Sarcoidosis</li> <li>B) Miliary calcifications</li> <li>C) A lung abscess</li> <li>D) A right hilar mass</li> <li>E) A right pleural effusion</li> </ul>	Abscess, lung Anaerobic. <b>10-188.</b> Anaerobic lung abscesses are most often found in a person predisposed to aspiration who complains of a productive cough associated with fever, anorexia, and weakness. <b>ANS=C.</b> Physical examination usually reveals poor dental hygiene, a fetid odor to the breath and sputum, rales, and pulmonary findings consistent with consolidation. Patients who have sarcoidosis usually do not have a productive cough and have bilateral physical findings. A persistent productive cough is not a striking finding in disseminated tuberculosis, which would be suggested by miliary calcifications on a chest film. The clinical presentation and physical findings are not consistent with a simple mass in the right hilum nor with a right pleural effusion.
<ul> <li>07-182. +Int+Adm. An obese middle-aged adult has acanthosis nigricans. Which one of the following is the most likely associated illness?</li> <li>A) Hypothyroidism</li> <li>B) Diabetes mellitus</li> <li>C) Gastric adenocarcinoma</li> <li>D) Lymphoma</li> <li>E) Addison's disease</li> </ul>	Acanthosis nigricans can be associated with many different entities. ANS=B. Most patients are obese, and obese patients with acanthosis nigricans have markedly higher levels of fasting plasma insulin. Many of these patients do not have diabetes, but do have insulin resistance. Other possible causes include other endocrine disorders (hypothyroidism, polycystic ovarian disease, ovarian hyperthecosis, Cushing's disease, Addison's disease, acromegaly), some drugs (such as glucocorticoids), malignancies (gastric adenocarcinoma

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
07-240. +Int+Cca+Adm. A 14-year-old Hispanic female presents with a dark spot on her right lateral chest (see Figure). Her mother says the lesion has been there for "years." Which one of the following would be most appropriate initially? A) A biopsy of the lesion B) A cosyntropin test C) An FSH level D) A yearly skin survey and photographs E) Observation only	being most common), and hereditary syndromes. Accessory nipple. ANS=E. This is a classic presentation of an accessory nipple that requires only observation. These congenital remnants of the "mammary lines" may be found on both the anterior and posterior chest walls. This lesion has no propensity to malignancy or endocrine relationships.
<ul> <li>07-148. +Int+Adm+Cca+Mac. You are counseling a 24-year-old female about treatment for her acne. Despite conventional treatment with topical agents and systemic antibiotics, she continues to experience flares of inflammatory acne and believes that her acne is severely limiting her social relationships and her ability to make a favorable impression during job interviews. She asks you about using isotretinoin (Accutane). Which one of the following would be accurate advice?</li> <li>A) Isotretinoin is most useful in treating comedonal acne</li> <li>B) Concomitant therapy with topical keratolytic agents is usually well tolerated C) Teratogenicity is the most devastating adverse effect</li> <li>D) Elevations in liver enzymes often necessitate discontinuing treatment</li> <li>E) Osteoporosis and osteophyte formation are common late complications of treatment</li> </ul>	Acne. Isotretinoin is FDA-labeled only for treatment of severe, recalcitrant, nodular acne. ANS=C. Because of documented clinical experience with the drug, however, in addition to additional published evidence, there is international consensus that isotretinoin may be appropriate in other situations. These include an <u>inadequate response to appropriate conventional therapy for less</u> severe acne, scarring inflammatory acne, and acne that causes severe psychologic distress. When isotretinoin is used, adjuvant therapy with topical keratolytics and drying agents should be discontinued because concomitant use may lead to excessive dryness. The most devastating adverse effect of isotretinoin is teratogenicity. Major malformations may occur in 25%–30% of fetuses exposed to the drug. Liver enzyme levels should be monitored periodically, although elevations beyond the reference range are rare. If elevations do occur, it may be necessary to reduce the dosage, or in rare instances to discontinue therapy. Long-term retinoid therapy may be complicated by skeletal changes, including osteoporosis and osteophyte formation. No studies have reported notable bony changes associated with short-term therapy of the duration typical for treatment of acne (usually 5 months).
<ul> <li>07-187. +End+Adm. A 54-year-old African-American female is admitted to the hospital for intravenous heparin therapy for a deep-vein thrombosis of her leg. She had previously been very healthy. Shortly after admission she begins to experience profound orthostatic hypotension and gastrointestinal distress. Serial hemoglobin tests are stable, but serum sodium and bicarbonate levels are low. Her potassium level is slightly elevated. Which one of the following tests would most quickly determine if she has suffered from acute adrenal cortex insufficiency (Addison's disease)?</li> <li>A) A cosyntropin stimulation test</li> <li>B) A dexamethasone suppression test</li> <li>C) A renin:aldosterone ratio</li> <li>D) A serum adrenocorticotropic hormone (ACTH) level</li> <li>E) Measurement of 24-hour urinary excretion of catecholamines</li> </ul>	Adrenal insufficiency. 07-187. Addison's disease. ANS=A. Destruction of the adrenal cortex by acute causes (infarction, hemorrhage, infection) or chronic ones (granulomatous disease, immune destruction) results in a loss of circulating levels of cortisol and aldosterone. The effects of this deficiency can include electrolyte disturbances such as those seen in this patient, gastrointestinal distress (including "acute abdomen," diarrhea, nausea, etc.), orthostatic hypotension, and patient fatigue. If the process is gradual, ACTH levels will increase, resulting in a darkened skin tone. Measuring serum levels of ACTH may be helpful in determining the cause of decreased cortisol levels, but is not a good first test of adrenal cortex function. The dexamethasone suppresion test is used to evaluate glucocorticoid excess. The cosyntropin stimulation test does assess adrenal cortex function. This test involves injecting cosyntropin, 250 ug intramuscularly or intravenously, and measuring cortisol levels 6495 nmol/L),
Adrenal cortex and medullaCFR corresponds with Salt (Na <sup>+</sup> ), Sugar (glucocorticoids), and Sex (androgens).Primary regulatory controlAnatomy AnatomySecretory productsCFR corresponds with Salt (Na <sup>+</sup> ), Sugar (glucocorticoids), and Sex (androgens).Primary regulatory controlAnatomy AnatomySecretory productsCFR corresponds with Salt (Na <sup>+</sup> ), Sugar (glucocorticoids), and Sex (androgens).Primary regulatory controlCapsule $\rightarrow$ Zona Giomerulosa CHH hypothalamicCapsule $\rightarrow$ Zona Reticularis $\rightarrow$ Cartisol, sex hormones $(e_{p,a}, androgens)$ Chromocytoma —most common in children.Preganglionic sympathetic fibers $\rightarrow$ Medula Chromatfin cells $\rightarrow$ $\rightarrow$ Catecholamines (epi, NE)Neuroblastoma —most common in children.Adrenal gland drainageLeft adrenal $\rightarrow$ left adrenal vein $\rightarrow$ left renal vein $\rightarrow$ IvC.Same as left and right gonadal vein.Adrenal insufficiency and critical illness (NEJM 2003;348:727)	adrenal cortical function is proven to be at least 90% diminished. Pocket Medicine: Clinical manuifestations: Clinical manifestations (NEJM 1996;335:1206) • Primary or secondary: weakness and fatigability (99%), anorexia (99%), orthostatic hypotension (90%), nausea (86%), vomiting (75%), hyponatremia (88%) • Primary only (extra s/s due to lack of aldosterone and ACTH): marked orthostatic hypotension (because volume-depleted), hyperpigmentation (seen in creases, mucous membranes, pressure areas, nipples), hyperkalemia • Secondary only: ± other manifestations of hypopituitarism (see "Pituitary Disorders") Diagnostic studies: • Early a.m. serum cortisol: < 3 µg/dl virtually diagnostic; > 18 µg/dl rules it out (except in critical illness—see left column) • dose (250 µg) cosyntropin stimulation test (testing ability of ACTH cortisol) normal = 60-min post-ACTH cortisol 18 µg/dl abnormal in primary b/c adrenal gland diseased and unable to give adequate output > abnormal in chronic secondary b/c adrenals atrophied and unable to respond

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
Controversial; no consensus exists on diagnosing relative adrenal insufficiency	• <u>dose (1 µg) cort stim: ? more sensitive than high-dose test (controversial)</u>
• Serum free cortisol may be more useful in critically ill Pt (NEJM	• Other tests to evaluate HPA axis (w/ guidance by endocrinologist): insulin-
2004;350:1629)	induced hypoglycemia (measure serum cortisol response); metyrapone (blocks
• Perform ACTH stim as soon as possible in critically ill Pt suspected to have adrenal insuffic. > insufficiency if baseline cortisol < 15 µg/dl or if 9 µg/dl	cortisol synthesis and therefore stimulates ACTH, measure plasma 11- deoxycortisol and urinary 17- hydroxycorticosteroid levels)
$\rightarrow$ poor prognosis also associated with elevated baseline cortisol > 34 µg/dl	<ul> <li>Other lab abnormalities: hypoglycemia, eosinophilia, lymphocytosis, ±</li> </ul>
$\gamma$ poor prognosis also associated with crevated baseline corrisor $\gamma$ 54 µg/di	neutropenia
Initiate corticosteroids early if adrenal insufficiency suspected: >	• ACTH: in 1°, or low-normal in 2°
hydrocortisone 50-100 mg IV q6-8h	• Imaging studies to consider > pituitary MRI to detect pituitary abnormalities
$\rightarrow$ use dexamethasone 2-4 mg IV q6h + fludrocortisone 50 µg daily prior to	> adrenal CT: small, noncalcified adrenals in autoimmune, enlarged in metastatic
ACTH stim, but change to hydrocortisone once test performed	disease, hemorrhage, infection, or deposition (although they may be normal-
	appearing)
Treatment	<ul> <li>Etiologies</li> <li>Primary = adrenocortical disease = Addison's disease &gt; autoimmune: isolated</li> </ul>
• Acute adrenal insufficiency > Hydrocortisone IV as above + volume resuscitation with normal saline	or in assoc w/ PGA syndromes (see table 7-2 Polyglandular Autoimmune (PGA)
Chronic adrenal insufficiency > Hydrocortisone: 20-30 mg PO qd ( in am, in	Syndromes) infection: tuberculosis, CMV, histoplasmosis
pm) or prednisone ~5 mg PO qd	> vascular: hemorrhage (usually in setting of sepsis), thrombosis, and trauma
> Fludrocortisone (not needed in 2° adrenal insufficiency): 0.05-0.1 mg PO qam	> metastatic disease: (90% of adrenals must be destroyed to cause insufficiency)
back-up dexamethasone 4 mg IM prefilled syringe given to Pt for emergency	<ul> <li>deposition diseases: hemochromatosis, amyloidosis, sarcoidosis</li> </ul>
situations	<ul> <li>drugs: ketoconazole, etomidate (even after single dose), rifampin,</li> </ul>
Addison's disease: 1° deficiency of aldosterone and cortisol due to adrenal	anticonvulsants
atrophy or destruction by disease,	• Secondary = pituitary failure of ACTH secretion (but aldosterone intact b/c $P \land \land axia)$ , any cause of primery or secondary hyperituitarism (see "Bituitary
causing hypotension (hyponatremic volume contraction) and skin hyperpigmentation (due to MSH, a by-product of ↑ ACTH production from	RAA axis) > any cause of primary or secondary hypopituitarism (see "Pituitary Disorders")
POMC). Characterized by Adrenal Atrophy and Absence of hormone production;	<ul> <li>glucocorticoid therapy (occurs after 2 wks of "suppressive doses," which are</li> </ul>
involves All 3 cortical divisions. Distinguish from 2° insufficiency, which has no	extremely variable; even 7.5 mg/d of prednisone can be suppressive
skin hyperpigmentation (1 pituitary ACTH production).	<ul> <li>megestrol (a progestin with some glucocorticoid activity)</li> </ul>
10-064. +End+Adm.>L* A 68-year-old female presents with a several-month	Adrenal insufficiency. 10-064. ANS=A. A single morning serum cortisol level
history of weight loss, fatigue, decreased appetite, and vague abdominal pain. The	>13 ug/dL reliably excludes adrenal insufficiency. If the morning cortisol
most appropriate initial test to rule out adrenal insufficiency is	level is lower than this, further evaluation with a 1-ug ACTH stimulation test
A) morning serum cortisol	is necessary, although the test is somewhat difficult. It requires dilution of the
B) a cosyntropin (ACTH) stimulation test C) MRI	ACTH prior to administration, and requires multiple blood draws. <u>The insulin</u> tolerance test and metyrapone test, although historically considered to be
D) an insulin tolerance test	"gold standards," are not widely available or commonly used in clinical
E) a metyrapone test	practice. MRI does not provide information about adrenal function.
<b>10-155P.</b> +End+Adm.>L* An incidental 2-cm adrenal nodule is discovered on	Adrenal mass. 10-155P. ANS=B. The incidental discovery of adrenal masses
renal CT performed to evaluate hematuria in a 57-year-old female with flank pain.	presents a common clinical challenge. Such masses are found on abdominal CT in
She has no past medical history of palpitations, headache, hirsutism, sweating,	4% of cases, and the incidence of adrenal masses increases to 7% in adults over
osteoporosis, diabetes mellitus, or hypertension. A physical examination is	70 years of age. While the majority of masses are benign, as many as 11% are
normal, with the exception of a blood pressure of 144/86 mm Hg. Laboratory	hypersecreting tumors and approximately 7% are malignant tumors; the size
evaluation reveals a serum sodium level of 140 mmol/L (N 135–145) and a serum	of the mass and its appearance on imaging are major predictors of malignancy.
potassium level of 3.8 mmol/L (N 3.5–5.0). What is the most appropriate next step in the evaluation of this patient?	Once an adrenal mass is identified, adrenal function must be assessed with an overnight dexamethasone suppression test. A morning cortisol level >5 ug/dL
A) Repeat CT in 12 months	after a 1-mg dose of dexamethasone indicates adrenal hyperfunction.
B) Evaluation for adrenal hormonal secretion	Additional testing should include 24-hour fractionated metanephrines and
C) Fine-needle aspiration of the nodule	catecholamines to rule out pheochromocytoma. If the patient has
D) MRI of the abdomen	hypertension, morning plasma aldosterone activity and plasma renin activity
E) Referral to a general surgeon for exploratory laparotomy	should be assessed to rule out a primary aldosterone-secreting adenoma.
	Nonfunctioning masses require assessment with CT attenuation, chemical shift
	MRI, and/or scintigraphy to distinguish malignant masses. PET scanning is useful to verify malignant disease. Nonfunctioning benign masses can be monitored for
	changes in size and for the onset of hypersecretory states, although the appropriate
	interval and studies are controversial. MRI may be preferred over CT because of
	concerns about excessive radiation exposure. Fine-needle aspiration of the mass
	can be performed to differentiate between adrenal and non-adrenal tissue after
	malignancy and pheochromocytoma have been excluded.
<b>09-090.</b> +Pbs+Com. The advance directive specifications contained in an	Advance directive. 09-090. ANS=E. The living will, a written advance directive.
individual's living will become effective A) at the time it is signed and witnessed	allows a competent person to indicate his or her health care preferences while
B) when it is confirmed by the individual's health care surrogate C) at the time of admission to a health care facility such as a hearital D) when the patient devalues	<u>cognitively and physically healthy</u> . A living will may list medical interventions
admission to a health care facility such as a hospital D) when the patient develops a terminal illness E) when the individual becomes unable to communicate health	the patient would prefer to have withheld or withdrawn when he or she becomes unable to communicate.
care wishes	
<b>09-133.</b> +Pbs+Com. A 72-year-old male is brought by ambulance to the	Advance directive. 09-133. ANS=A. Competent adult patients have the right to
emergency department with weakness and numbness of his left side that began	refuse any medical intervention, even if forgoing this treatment may result in their
earlier this morning. While in the emergency department he becomes comatose	death. Legally and ethically it does not matter whether the patient requests that
with infrequent, gasping breaths and is quickly intubated and placed on a	care be withheld before it is started or that it be withdrawn once it is begun. All
ventilator. A full evaluation shows an acute ischemic right-sided stroke. His wife	states currently allow competent patients to legally designate a health-care proxy
states that she wishes to have the ventilator stopped, as she believes this would be	to make these decisions for them if they become unable to communicate or are no
consistent with her husband's wishes in this circumstance. She understands that this would precipitate the patient's death. The wife presents a legally valid	longer competent to decide for themselves. The patient in this example has instituted such a legal advance directive and his proxy's request should be
advance directive confirming her as the patient's healthcare proxy. Which one of	respected as his own and the care withdrawn. If there were no advance directive
the following responses to the wife's request is most ethically appropriate?	the decision in this case would become more difficult, and might require a family
A) Withdraw the ventilator as requested <b>B</b> ) Contact the hospital ethics committee	conference or the involvement of an ethics committee. A patient's condition does
to initiate the legal requirements to process the wife's request C) Inform the wife	not need to be terminal or irreversible to allow the removal of life-sustaining
that all life-sustaining care should be given until the patient's condition has been	therapy. Legal involvement is rarely required in situations where advance
determined to be irreversible <b>D</b> ) Inform the wife that intubation may have been	directives are already available and valid.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 4 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we receive."

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
avoided in the emergency department, but once life-sustaining care has been initiated it should not be withdrawn <b>E</b> ) Promptly contact hospital security or the local law enforcement agency to report the wife's request	
<ul> <li>09-182. +Pbc+Com. The 1990 Patient Self-Determination Act requires that <ul> <li>A) the process for advance directives be standardized for all 50 states</li> <li>B) a living will be implemented for patients upon admission to the hospital</li> <li>C) hospitals ask patients about advance directives</li> <li>D) verbally expressed wishes be honored for individuals who do not have a written advance directive</li> </ul> </li> </ul>	Advance directives. <b>09-182. ANS=C.</b> The 1990 Patient Self-Determination Act (PSDA) requires hospitals, nursing homes, and health care programs to ask patients about advance directives and then incorporate the information into medical records. The living will, a written advance directive, allows a competent person to indicate his or her health care preferences while cognitively and physically healthy. A living will may list medical interventions the patient wishes to have withheld or withdrawn when he or she becomes unable to communicate. Another type of advance directive, the durable power of attorney for health care, allows persons to designate a proxy (or surrogate) to make decisions for them if they become incapacitated. Although PSDA mandates that patients be asked about their advance directive status upon admission to the hospital, it does not require hospitals or individual physicians to offer patients an opportunity to complete an advance directive. The acceptance and precision of verbal preferences varies from state to state. Although verbal discussions are binding in many states, five states require "clear and convincing evidence of patient preferences." In California, Delaware, Michigan, Missouri, and New York, advance directives must include such evidence regarding a specific condition and/or treatment, even if a durable power of attorney states prior general verbal preferences. Therefore, lack of an advance directive may result in continued medical interventions to preserve life even if the patient may not want such treatment.
<ul> <li>07-165. +Pbc+Adm. A 51-year-old healthy female sees you for a routine examination. On a screening questionnaire she reports having two alcoholic drinks per day on average, but never more than three drinks on any occasion. She denies problems or symptoms associated with alcohol use. To reduce the risk of this patient suffering adverse effects from alcohol use you should A) refer her to Alcoholics Anonymous</li> <li>B) prescribe naltrexone (ReVia)</li> <li>C) advise her to quit drinking</li> <li>D) inform her that her pattern represents at-risk drinking</li> </ul>	Alcohol at-risk drinking. 07-165. A brief intervention is a short-term counseling intervention based on motivational interviewing techniques. ANS=D. It is designed to reduce at-risk or problem drinking. The U.S. Public Health Service, U.S. Preventive Services Task Force, and American Society of <u>Addiction</u> <u>Medicine define at-risk drinking for women (and all those over 65 years of age) as more than seven drinks per week or more than three drinks per occasion. For men, at-risk drinking is defined as more than 14 drinks per week or more than four drinks per occasion. A referral to Alcoholics Anonymous or prescribing naltrexone would be more appropriate for an alcohol- dependent person, which this patient is not. One drink is defined as a 12-ounce bottle of beer, a 5-ounce glass of wine, or a 1 1/2-ounce shot of liquor. Alcoholism (alcohol dependence) and alcohol abuse are two different forms of problem drinking. Alcoholism occurs when a person shows signs of physical addiction to alcohol (for example, tolerance and withdrawal) and continues to drink, despite problems with physical health, mental health, and social, family, or job responsibilities. Alcohol abuse, a person's drinking leads to problems, but not physical addiction.</u>
<ul> <li>08-125. +Neu+Mhe. Which one of the following would be the most effective monotherapy for alcohol withdrawal syndrome?</li> <li>A) Clonidine (Catapres)</li> <li>B) Phenytoin (Dilantin)</li> <li>C) Atenolol (Tenormin)</li> <li>D) Phenobarbital</li> <li>E) Chlordiazepoxide (Librium)</li> </ul>	Alcohol withdrawal syndrome. <b>08-125.</b> Alcohol withdrawal syndrome encompasses a wide range of symptoms involving primarily the central nervous, cardiovascular, and gastrointestinal systems, and is mediated by the abrupt removal of alcohol-enhanced GABA inhibition of excitatory glutamate receptors in the central nervous system. <b>ANS=E.</b> It generally is divided into three stages, based on severity and timeline; seizures may occur during any of these stages and may be the first sign of withdrawal. <b>The ideal pharmacologic agent should</b> <b>provide not only safe sedation but also protection from seizures.</b> <u>Long-acting</u> <u>benzodiazepines such as chlordiazepoxide have been shown to be superior to</u> <u>the other choices in numerous studies.</u> Clonidine and atenolol have been found to be useful in symptom reduction but not in seizure prevention. Phenytoin would seem to offer protection from seizures, but studies have not consistently shown this to be the case. Phenobarbital, while effective, has a very narrow therapeutic window, making its use problematic. <u>Epocrates:</u> There is no superiority of one benzodiazepine over the other for alcohol withdrawal. <u>In patients with hepatic failure, consider lorazepam over <b>chlordiazepoxide to avoid increased sedation.</b> Chlordiazepoxide : 25-100 mg orally/intravenously/intramuscularly every 4-6 hours, reduce dose as symptoms abate, maximum 300 mg/day. Diazepam : 5-10 mg orally/intravenously/intramuscularly every 6-8 hours Lorazepam : 1-4 mg orally/intravenously/intramuscularly every 6-8 hours Oxazepam : 15-30 mg orally every 6-8 hours</u>
<ul> <li>10-217. +Gas+Adm.&gt;L* An elevation of serum alkaline phosphatase combined with an elevation of 5'-nucleotidase is most suggestive of conditions affecting A) bone</li> <li>B) the liver</li> <li>C) the placenta</li> <li>D) the small intestine</li> </ul>	Liver disease. Alkaline phosphatase is elevated in conditions affecting the bones, liver, small intestine, and placenta. <b>ANS=B.</b> <u>The addition of elevated 5'-</u> <u>nucleotidase suggests the liver as the focus of the problem.</u> Measuring <u>5'-</u> <u>nucleotidase to determine whether the alkaline phosphatase elevation is due</u> <u>to a hepatic problem is well substantiated, practical, and cost effective</u> (SOR C).
07-074. +Res+Cca. A 5-year-old male has moderate persistent asthma and allergic rhinitis. Which one of the following is true regarding leukotriene inhibitors in this situation?         A) They are less effective than intranasal corticosteroids for allergic rhinitis         B) They are more effective than inhaled corticosteroids for asthma         C) They are more effective than long-acting B2-agonists when added to inhaled corticosteroids for asthma         C) They are more effective than long-acting B2-agonists when added to inhaled corticosteroids for asthma         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 5 of 170	Allergic rhinitis. 07-074. In general, asthma is most effectively treated with inhaled corticosteroids. ANS=A. Adding a leukotriene inhibitor may be effective, but is less effective than adding a long-acting B2-agonist. Leukotriene inhibitors are also less effective than intranasal corticosteroids for allergic rhinitis. Leukotriene inhibitors are considered inappropriate monotherapy for moderate persistent asthma, as they are less effective than inhaled corticosteroids. <u>Leukotriene inhibitors (e.g. montelukast) are less effective</u> Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we receive.</i> "

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
D) They are appropriate monotherapy for asthma	than intranasal corticosteroids for allergic rhinitis.
<b>D</b> ) They are appropriate monotherapy for astima <b>09-005.</b> +Res+Adm. You are treating an 18-year-old white male college freshman for allergic rhinitis. It is September, and he tells you that he has severe symptoms every autumn that impair his academic performance. He has a strongly positive family history of atopic dermatitis. Which one of the following medications is considered optimal treatment for this condition? A) Intranasal glucocorticoids B) Intranasal cromolyn sodium C) Intranasal decongestants D) Intranasal antihistamines	Allergic rhinitis. 09-005. Topical intranasal glucocorticoids are currently believed to be the most efficacious medications for the treatment of allergic rhinitis. They are far superior to oral preparations in terms of safety. Cromolyn sodium is also an effective topical agent for allergic rhinitis; however, it is more effective if started prior to the season of peak symptoms. Because of the high risk of rhinitis medicamentosa with chronic use of topical decongestants, these agents have limited usefulness in the treatment of allergic rhinitis. Azelastine, an intranasal antihistamine, is effective for controlling symptoms but can cause somnolence and a bitter taste. Oral antihistamines are not as useful for congestion as for sneezing, pruritus, and rhinorrhea. Overall, they are not as effective as topical glucocorticoids. Ans: A. <u>Epocrates:</u> Beclomethasone nasal: (42 micrograms/spray) children >6 years of age and adults: 42-84 micrograms (1-2 sprays) in each nostril twice daily; (84 micrograms/spray) children >6 years of age and adults: 84-168 micrograms (1-2 sprays) in each nostril once daily Budesonide nasal : (32 micrograms/spray) children >6 years of age and adults: 32- 64 micrograms (1-2 sprays) in each nostril once daily Flunisolide nasal : (25 micrograms/spray) children >6 years of age and adults: 50 micrograms (2 sprays) in each nostril twice daily Fluticasone propionate nasal : (50 micrograms/spray) children >4 years of age: 50-100 micrograms (1-2 sprays) in each nostril once daily Mometasone nasal : (50 micrograms/spray) children >2 years of age: 50 micrograms (1 spray) in each nostril once daily; adults: 100 micrograms (2 sprays) in each nostril once daily; adults: 100 micrograms (1 spray) in each nostril once daily; adults: 100 micrograms (2 sprays) in each nostril once daily Triamcinolone nasal : (55 micrograms/spray) children 2-5 years of age: 55 micrograms (1 spray) in each nostril once daily; children 51 years of age: 55- micrograms (1 spray) in each nostril once daily; children 51 years of age
<b>07-009.</b> +Non+Euc A patient who is in college in another state calls to report that he has developed wheezing, oral itching, and a swollen lower lip after kissing his	Ciclesonide nasal : (50 micrograms/spray) children >5 years of age and adults: 100 micrograms (2 sprays) in each nostril once daily Allergy. 07-009. peanut. ANS=B. <u>Patients with peanut allergy</u> can have reactions to infinitesimal amounts of peanut protein, including residue on the
girlfriend. The symptoms reminded him of an allergic reaction to peanuts he had when he was a child, so he self-administered a dose of adrenalin from his EpiPen kit 15 minutes ago. His itching and wheezing have improved, and he asks what else he should do. What advice should you provide? A) He should take oral diphenhydramine (Benadryl) now and prednisone for 3 days B) He should go to the nearest emergency department C) He should schedule a comprehensive reevaluation by an allergist D) No further action is needed	<b>lips of other people.</b> This patient has successfully interrupted the course of anaphylaxis. Diphenhydramine can help reduce subsequent symptoms, and prednisone is generally given, although its value is unproven. However, the patient is at <u>risk of a biphasic reaction and should go to an emergency</u> <u>department where additional adrenalin and resuscitation facilities are available</u> . The American Academy of Pediatrics guideline recommends that <u>all</u> <u>peanut-allergic patients who require a dose of adrenalin be observed in an</u> <u>emergency department for at least 4 hours</u> . Patients who have not already had a full allergy evaluation need to see an allergist, but this patient's peanut allergy has been established. Currently, desensitization is ineffective and has a high complication rate, but in the future an agent that blocks IgE may be available. Peanut-allergic patients tend to have accidental exposure about once every 5 years in spite of efforts at avoidance.
<ul> <li>10-182. +Non+Adm.&gt;L?* Which one of the following is a frequent cause of cross-reactive food-allergy symptoms in latex-allergic individuals?</li> <li>A) Avocadoes</li> <li>B) Goat's milk</li> <li>C) Pecans</li> <li>D) Pastrami</li> <li>E) Peppermint</li> </ul>	Allergy. 10-182. latex and bananas, avocadoes, and kiwi. ANS=A. The majority of patients who are latex-allergic are believed to develop IgE antibodies that cross-react with some proteins in plant-derived foods. These food antigens do not survive the digestive process, and thus lack the capacity to sensitize after oral ingestion in the traditional food-allergy pathway. Antigenic similarity with proteins present in latex, to which an individual has already been sensitized, results in an indirect allergic response limited to the exposure that occurs prior to alteration by digestion, localized primarily in and around the oral cavity. The frequent association with certain fruits has been labeled the "latex- fruit syndrome." Although many fruits and vegetables have been implicated, <u>fruits most commonly linked to this problem are bananas, avocadoes, and</u> kiwi.
<ul> <li>10-193. +Non+Euc.?* In a patient with a severe anaphylactic reaction to peanuts, the most appropriate route for epinephrine is</li> <li>A) intramuscular</li> <li>B) intravenous</li> <li>C) oral</li> <li>D) subcutaneous</li> <li>E) sublingual</li> </ul>	Allergy. <b>10-193. Peanut,</b> Anaphylactic reaction. <b>ANS=A. <u>Intramuscular</u></b> epinephrine is the recommended drug for anaphylactic reactions (SOR A). Epinephrine is absorbed more rapidly intramuscularly than subcutaneously.
07-184. +Sen+Cca. The most common cause of monocular vision loss in children and young adults is A) amblyopia B) congenital cataract C) type 1 diabetes mellitus D) trauma         Amblyopia [fr. amblys dull, + bps, eye]: visual impairment not due to an ocular lesion and not fully correctable by an artificial lens.         Mild to moderate strabismic and/or mild to moderate anisometropic amblyopia (visual acuity better than 20/100): All types of amblyopia require optical correction of significant refractive errors if present. Patches are used to occlude         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 6 of 170	Amblyopia. <b>07-184.</b> <u>Amblyopia due to strabismus is the leading cause of</u> <u>monocular vision loss in children and young adults</u> , and is a major health problem. <b>ANS=A</b> . It is crucial to make the diagnosis early, so screening during infancy and childhood is necessary. Early screening results in better outcomes. However, studies suggest that <b>only 20% of school-age children are routinely</b> <b>screened.</b> Congenital cataracts, ptosis, and corneal lesions are less common causes of amblyopia, which act by deprivation of visual information. Neither type of diabetes mellitus is a major cause of monocular vision loss. Trauma is much less common than amblyopia. Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we receive.</i> "

Inc. ex. with prefix tisson. They are usually stock directly onto the particular directly on the second by paresecond directly on the second by particular directly on the se	Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>because the has not yet meantanch. An examination reveals no secondary secured by a forward fage, AbSeA. The FSH and LHI evel were measured. The most common secure for the statubation price with partners reveals the most appropriate at this time?</li> <li>b) A most regard program of the statubation of the statubation price with partners reveals the statubation of provide the partners for the statubation of provide the partners for the statubation of the statubation price with partners reveals the statubation of provide the partners for the provident. Research were the statubation of provide the partners for the provident statubation of provide the partners for the provident statubation of provide the partners for the provident statubation of provide the contact sponding of an envolute secondary second statubation of provident partners for the provident statubation of provident statubation of provident partners for the provident statubation of provident partners for the provident statubation of provident partners for the provident statubation of provident statubation of provident statubation of provident statubation of provident partners for the provident statubation of provident statubation st</li></ul>	the eye with better vision. They are usually stuck directly onto the periorbital skin. Poor initial visual acuity has been found to be associated with poor compliance with patching. Atropine eye drops to blur the vision in the better eye are sometimes used as an alternative to patching. After the amblyopia has been treated, children with residual strabismus typically undergo strabismus	Epocrates: Strabismic Amblyopia: Strabismus (misalignment of the eyes) results in amblyopia if the child prefers to fixate with 1 of the eyes instead of freely alternating fixation between the 2 eyes. The nonfixating eye (or deviated eye) is suppressed as an adaptive mechanism to avoid double vision. Prolonged suppression during early childhood leads to amblyopia. Refractive: Refractive errors defocus the retinal image and, if marked, can cause amblyopia. Form deprivation: This results from blurring of the retinal image caused by opacities in the cornea, anterior chamber, lens, vitreous, or retinal
month history of amenorrhea. A pregnancy test is negative, and other blood work         recased intrake, which may be related to either reduced food consumption of intressed entery use, NNS-A. This is no anomal response to training, and may be the frest indication of a potential developing problem. Young athletes may be a seriogen-containing oral contraceptive           0.10 to test an estrogen-containing oral contraceptive         Dit obsteption a seriogen-containing oral contraceptive           0.11 to test an estrogen-containing oral contraceptive         Amenorrhea, and a correase in exercise interests. It is no test correspondent to intraine with the potentials is no estrogen-containing and may be the frest indication of a potential developing mobilem. Young athletes may be a seriogen-containing and may be the frest indication of a potential developing mobilem. Young athletes may be a seriogen-containing and may be the frest indication of a potential developing mobilem. Young athletes may be a seriogen-containing and may be the frest indication of a seriogen-containing and may be the frest indication of a seriogen-containing and may be the frest indication of a seriogen-containing and may be the frest indication of a seriogen-containing and may be the frest indication of a seriogen-containing and may be the frest indication of a seriogen-containing and the potentiation more seriogen-containing and may be the frest indication of a seriogen-containing and may be the frest indication of a seriogen-containing and may be the frest indication of seriory potentiation may be the frest indication of seriory potentiation may be appropriate laboratory evaluation. ANS-a The issee of a seriory potentiation may be appropriate laboratory evaluation. ANS-a The issee of a seriory potentiation may be appropriate laboratory evering adammas (seering and may be develop a combinate memory and interpotentiation mapproventiation)	<ul> <li>because she has not yet menstruated. An examination reveals no secondary sexual characteristics. You order FSH and LH levels, and find that both are low. Which one of the following would be most appropriate at this time?</li> <li>A) Watchful waiting</li> <li>B) Karyotype analysis</li> <li>C) Ultrasonography of the uterus</li> <li>D) A progestogen challenge test</li> </ul>	has not occurred by 16 years of age. ANS=A. Because this patient had no secondary sexual characteristics, her FSH and LH levels were measured. The fact that both are low indicates hypogonadotropic hypogonadism. The most common cause for this situation in girls with primary amenorrhea is constitutional delay of growth and puberty. A detailed family history might help confirm this etiology, because it is often familial. Watchful waiting is appropriate for this problem. <u>Karyotype analysis would be the next step in diagnosis if FSH and LH were elevated</u> , indicating hypergonadotropic hypogonadism, which could be associated with 46,XX and premature ovarian failure, or 45,XO and Turner's syndrome. <u>Ultrasonography would be</u> <u>appropriate if secondary sexual characteristics were present</u> and would identify whether the uterus is absent or abnormal, and whether an outflow obstruction exists. The hormone challenge tests are used to evaluate secondary
<ul> <li>10-199. +Ref+Cfp. A 30-year-old African-American female is being evaluated because of absent menses for the last 6 months. Menarche was at age 12. Her menstral periods have frequently been irregular, and are accompanied only occasionally by dysmenorrhea. She had her first child 4 years ago, but has not been able to become pregnant since. A physical examination and pelvic examination are uuremarkable. A serum pregnancy test is negative, prolactin levels are normal, and LH and FSH levels are both three times normal on two occasions. These findings are consistent with A) hypothalamic amenorrhea B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma D) polycystic ovary syndrome</li> <li>B) ovarian failure</li> <li>C) pituitary microadenoma fixed for an examination prior to the wresting season. He tells you that some friends have told hin he host oper promace (DHEA), and he asks for your advice. Which one of the following is true about the effects of this drug? A) It enhances there performance or muscle strength D) It does not enfort of the olyceside dimerse that and belly divergenandosterone (DHEA) is pathegrame and the examolational breakdown of the following is true about the effects of this drug? A) It e</li></ul>	<ul> <li>month history of amenorrhea. A pregnancy test is negative, and other blood work is normal. She has no other medical problems and takes no medications. With respect to her amenorrhea, you advise her</li> <li>A) to increase her caloric intake</li> <li>B) that this is a normal response to training</li> <li>C) to begin an estrogen-containing oral contraceptive</li> <li>D) to stop running</li> <li><b>09-155.</b> +End+ Cfp. A 15-year-old white female who has had regular periods since age 12 comes to your office because of secondary amenorrhea and a milky discharge from her breasts. A pregnancy test is negative. The best test for initial evaluation of the pituitary in this patient is</li> <li>A) plasma antidiuretic hormone</li> <li>B) plasma ACTH</li> <li>C) serum prolactin</li> <li>D) serum FSH and LH</li> </ul>	Amenorrhea, secondary. 08-037. <u>Amenorrhea is an indicator of inadequate</u> calorie intake, which may be related to either reduced food consumption or increased energy use. ANS=A. This is not a normal response to training, and may be the first indication of a potential developing problem. Young athletes may develop a combination of onditions, including eating disorders, amenorrhea, and osteoporosis (the female athlete triad). Amenorrhea usually responds to increased calorie intake or a decrease in exercise intensity. It is not necessary for patients such as this one to stop running entirely, however. Amenorrhea, secondary. 09-155. Anterior pituitary hormone overproduction is suspected on clinical grounds and confirmed by appropriate laboratory evaluation. ANS=C. The most common secretory pituitary adenomas are prolactinomas. They cause galactorrhea and hypogonadism, including amenorrhea, infertility, and impotence. Growth hormone-secreting tumors, which are the next most common secretory pituitary tumors, cause acromegaly or gigantism. Next in frequency are corticotropic (ACTH-secreting) adenomas, which cause cortisol excess (Cushing's disease). Glycoprotein hormone-secreting pituitary adenomas are a rare cause of hyperthyroidism. Paradoxically, most
<ul> <li>prior to the wrestling season. He tells you that some friends have told him he should start taking dehydroepiandrosterone (DHEA), and he asks for your advice. Which one of the following is true about the effects of this drug? A) It enhances performance but not muscle strength B) It enhances muscle strength but not performance C) It enhances both performance and muscle strength D) It does not enhance either performance or muscle strength</li> <li><b>08-217.</b> +Hem+Adm. A 60-year-old male has moderate anemia, with a suggestion of hemolysis on a peripheral blood smear. Which one of the following patterns would be consistent with the presence of hemolysis?</li> <li>A) Elevated LDH, decreased haptoglobin, elevated indirect bilirubin</li> </ul>	because of absent menses for the last 6 months. Menarche was at age 12. Her menstrual periods have frequently been irregular, and are accompanied only occasionally by dysmenorrhea. She had her first child 4 years ago, but has not been able to become pregnant since. A physical examination and pelvic examination are unremarkable. A serum pregnancy test is negative, prolactin levels are normal, and LH and FSH levels are both three times normal on two occasions. These findings are consistent with A) hypothalamic amenorrhea B) ovarian failure C) pituitary microadenoma	Amenorrhea, secondary. 10-199. Ovarian failure or premature menopause. ANS=B. The history and physical findings in this patient are consistent with all of the conditions listed. However, the elevated FSH and LH indicate an ovarian problem, and this case is consistent with ovarian failure or premature menopause. Most pituitary tumors associated with amenorrhea produce hyperprolactinemia. Polycystic ovary syndrome usually results in normal to slightly elevated LH levels and tonically low FSH levels. Hypothalamic amenorrhea is a diagnosis of exclusion, and can be induced by weight loss, excessive physical exercise (running, ballet), or systemic illness. It is associated with tonically low levels of LH and FSH. Hint: 1) In Polycystic Ovarian Disease (PCOD), increased levels of androgens lead to high estrogen levels from conversion in peripheral fat tissue, which suppress FSH and lead to increased LH levels relative to FSH, so the LH/FSH ratio will increase. 2) In ovarian failure there is decreased production of estrogen and inhibin. This results in loss of feedback inhibition of estrogen on FSH and LH, causing high levels of both hormones. Since inhibin causes feedback inhibition of FSH only, in the absence of inhibin, FSH levels are higher than LH levels in the blood, which is pathognomonic of
of hemolysis on a peripheral blood smear. Which one of the following patterns would be consistent with the presence of hemolysis?increased unconjugated bilirubin, elevated lactate dehydrogenase (LDH), decreased haptoglobin, and peripheral blood smear findings. ANS=A. Hemolytic anemia occurs when an abnormal breakdown of red blood cells takes	prior to the wrestling season. He tells you that some friends have told him he should start taking dehydroepiandrosterone (DHEA), and he asks for your advice. Which one of the following is true about the effects of this drug? A) It enhances performance but not muscle strength B) It enhances muscle strength but not performance C) It enhances both performance and muscle strength D) It does not enhance either performance or muscle strength	<b>Dehydroepiandrosterone (DHEA) is illegal</b> under the Anabolic Steroid Control Act of 2004, and is prohibited by the NCAA and the International Olympic Committee. Like androstenedione, <u>DHEA is a precursor to testosterone, but</u> <u>neither of these substances has been shown to enhance either performance or</u>
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 7 of 170 Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we receive."	of hemolysis on a peripheral blood smear. Which one of the following patterns would be consistent with the presence of hemolysis? A) Elevated LDH, decreased haptoglobin, elevated indirect bilirubin	increased unconjugated bilirubin, elevated lactate dehydrogenase (LDH), decreased haptoglobin, and peripheral blood smear findings. ANS=A.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
B) Elevated LDH, elevated haptoglobin, decreased indirect bilirubin	place. Because LDH is abundant in red blood cells, elevated LDH in the
C) Decreased LDH, elevated haptoglobin, elevated indirect bilirubin	bloodstream can be a marker for hemolyisis. Read more: The Causes of High
D) Decreased LDH, decreased haptoglobin, elevated indirect bilirubin	LDH   eHow.com http://www.ehow.com/list_7469479_causes-high-
E) Decreased LDH, decreased haptoglobin, decreased indirect bilirubin	ldh.html#ixzz1Ec4lBR8D.
	When red blood cells break down, they release hemoglobin into the
	bloodstream. The hemoglobin combines with a chemical called haptoglobin.
	A low level of haptoglobin in the bloodstream is a sign of hemolytic anemia.
<b>08-068.</b> +Hem+Adm. A 45-year-old female with rheumatoid arthritis has a	Anemia, iron deficiency. <b>08-068.</b> ANS=A. In <u>iron deficiency</u> anemia, <u>total-body</u>
hemoglobin level of 9.5 g/dL (N 11.5–16.0). Her arthritis is well controlled with methodragata (Tragall). Further avaluation rayeds the following:	iron levels are low, leading to hypochromia and microcytosis, low iron levels,
methotrexate (Trexall). Further evaluation reveals the following: Hamptogrit $20.0\%$ (N 35.0, 47.0)	increased transferrin levels, and reduced ferritin levels. Anemia of chronic
Hematocrit	disease is characterized by the underproduction of red cells, due to hypoferremia caused by the uptake of iron by the reticuloendothelial system.
Platelets	Total-body iron stores are increased but the iron in storage is not available
WBCs	for red cell production. This anemia is normochromic and normocytic, and is
Differentialnormal	associated with a reduction in iron, transferrin, and transferrin saturation.
<u>Serum iron</u>	Ferritin is either normal or increased, reflecting both the increased iron within
Total iron binding capacity 150 ug/dL (N 45–70)	the reticuloendothelial system and increases due to immune activation (acute
Iron saturation	phase reactant).
Serum ferritin	This patient's anemia is most likely multifactorial, with anemia of chronic disease
Reticulocyte count	and drug effects playing a role. However, she also has iron deficiency, and
Stool guaiac negative ×3	searching for a source of blood loss would be important. With thalassemia,
Which one of the following would be the most appropriate next step?	marked microcytosis is seen, and with hemolysis of any standing, slight
A) Evaluation for a source of blood loss	macrocytosis and an increased reticulocyte count would be expected.
B) Hemoglobin electrophoresis to screen for thalassemia	Transferrin, a protein that transports iron, is elevated in iron-deficiency anemia,
C) Stopping the methotrexate and beginning an alternative treatment for	indicating that the body needs more iron. The total iron-binding capacity
rheumatoid arthritis	(TIBC), an indirect measurement of transferrin, is low in anemia of chronic
D) No further evaluation	disease because there is ample iron, but it is not easily available. <u>TIBC tends</u>
	to be increased when iron stores are diminished and decreased when they are
	elevated. In iron-deficiency anemia, the TIBC is higher than 400–450 mcg/dL
	because stores are low. <u>In anemia of chronic disease, the TIBC is usually</u> below normal because the iron stores are elevated.
	In nearly two-thirds of the patients, the serum ferritin is one test that can be used
	to distinguish between anemia of chronic disease and iron-deficiency anemia.
	Ferritin is an acute-phase reactant, which means that it can be elevated in the
	presence of inflammation and this factor must be taken into consideration when
	examining the findings. Serum ferritin can be raised to normal levels even in the
	presence of iron deficiency.
	Hint: if deciding in between iron deficiency anemia and anemia of chronic
	disease, look at total iron binding capacity (TIBC), if it is low, it is most likely
	anemia of chronic disease.
<b>08-149.</b> +Pbc+Adm. A 34-year-old female with menorrhagia is found to have iron	Anemia, iron deficiency. 08-149. Vitamins & minerals. Iron. ANS=A. Oral
deficiency anemia. Which one of the following is true regarding the treatment of	iron is absorbed better with an acidic gastric environment, which can be
this problem with oral iron?	accomplished with the concomitant administration of vitamin C. Agents that
A) An acidic environment enhances the absorption of iron from the	raise gastric pH, such as antacids, proton pump inhibitors, and H2 blockers,
gastrointestinal tract	should be avoided if possible. Oral iron absorption is improved if the iron is
B) Iron is absorbed better if taken with food	taken on an empty stomach, but this may not be well tolerated because gastric
C) Diarrhea is a common complication	irritation is a frequent side effect. Constipation also is common with oral iron
D) Iron supplementation can be discontinued once the hemoglobin reaches a	therapy. Iron therapy should be continued for several months after the hemoglobin
normal level	reaches a normal level, in order to fully replenish iron stores. Sustained-release oral iron products provide a decreased amount of iron for absorption.
E) Sustained-release formulations increase the total amount of iron available for	oral from products provide a decreased amount of from for absorption.
absorption 09-050. +Hem+Adm. Which one of the following is most consistent with a	Anemia, iron deficiency. 09-050. ANS=D. In iron deficiency anemia, serum iron
diagnosis of iron deficiency anemia? A) Low iron-binding capacity B) An	is low but iron-binding capacity is high. Serum ferritin is one-tenth of
elevated methylmalonic acid level C) Increased serum ferritin D) Reticulocytosis	<b>normal.</b> Bone marrow iron stores are depleted. <b>Oral replacement</b> , which is safer
about 1 week after administration of iron	than parenteral administration and more acceptable to patients, should raise the
	hemoglobin level by 0.2 g/dL/day. A reticulocyte response should be seen in a
	week to 10 days unless factors such as a concomitant folic acid deficiency
	prevent a full response.
10-157. +Hem+Adm. In a patient with microcytic anemia, which one of the	Anemia, iron deficiency. 10-157. ANS=C. Ferritin and serum iron levels fall
following patterns of laboratory abnormalities would be most consistent with iron	with iron deficiency. Total iron binding capacity rises, indicating a greater
deficiency as the underlying cause?	capacity for iron to bind to transferrin (the plasma protein that binds to iron for
A) Ferritin low, total iron binding capacity (TIBC) low, serum iron low	transport throughout the body) when iron levels are low.
B) Ferritin low, TIBC low, serum iron high	
C) Ferritin low, TIBC high, serum iron low	
D) Ferritin high, TIBC low, serum iron low	
07-196. +Hem+Cel. Which one of the following is the most common type of	Anemia, of chronic disease (inflammation). ANS=C. The most common cause
anemia in the geriatric age group?	of anemia in the geriatric age group is chronic disease (35%–40%), which is
	often asymptomatic, followed by iron deficiency anemia (8%–15%), chronic renal
A) Iron deficiency anemia from blood loss	disease (6%–8%), blood 12 loss (7%), myelodysplasia (5%), and vitamin B
B) Nutritional anemia from vitamin B12 deficiency	
<ul><li>B) Nutritional anemia from vitamin B12 deficiency</li><li>C) Anemia of chronic disease</li></ul>	deficiency (5%). Renal insufficiency accounts for the greatest percentage of
<ul><li>B) Nutritional anemia from vitamin B12 deficiency</li><li>C) Anemia of chronic disease</li><li>D) Hemolytic anemia</li></ul>	deficiency (5%). <u>Renal insufficiency accounts for the greatest percentage of patients with anemia of chronic disease</u> .
<ul><li>B) Nutritional anemia from vitamin B12 deficiency</li><li>C) Anemia of chronic disease</li></ul>	deficiency (5%). <u>Renal insufficiency accounts for the greatest percentage of</u> <u>patients with anemia of chronic disease</u> . MGH Hnadbook of Internal Medicine: Anemia of chronic inflammation (ACI;
<ul><li>B) Nutritional anemia from vitamin B12 deficiency</li><li>C) Anemia of chronic disease</li><li>D) Hemolytic anemia</li></ul>	deficiency (5%). <u>Renal insufficiency accounts for the greatest percentage of patients with anemia of chronic disease</u> . MGH Hnadbook of Internal Medicine: Anemia of chronic inflammation (ACI; NEJM 2005;352:1011).
<ul><li>B) Nutritional anemia from vitamin B12 deficiency</li><li>C) Anemia of chronic disease</li><li>D) Hemolytic anemia</li></ul>	<ul> <li>deficiency (5%). <u>Renal insufficiency accounts for the greatest percentage of patients with anemia of chronic disease</u>.</li> <li>MGH Hnadbook of Internal Medicine: Anemia of chronic inflammation (ACI; NEJM 2005;352:1011).</li> <li>Impaired iron utilization &amp; ↓epo-responsiveness due to ↑hepcidin &amp; cytokines</li> </ul>
<ul><li>B) Nutritional anemia from vitamin B12 deficiency</li><li>C) Anemia of chronic disease</li><li>D) Hemolytic anemia</li></ul>	<ul> <li>deficiency (5%). <u>Renal insufficiency accounts for the greatest percentage of patients with anemia of chronic disease</u>.</li> <li>MGH Hnadbook of Internal Medicine: Anemia of chronic inflammation (ACI; NEJM 2005;352:1011).</li> <li>Impaired iron utilization &amp; ↓epo-responsiveness due to ↑hepcidin &amp; cytokines in setting of autoimmune disorders, chronic inflammation, HIV,</li> </ul>
<ul><li>B) Nutritional anemia from vitamin B12 deficiency</li><li>C) Anemia of chronic disease</li><li>D) Hemolytic anemia</li></ul>	<ul> <li>deficiency (5%). <u>Renal insufficiency accounts for the greatest percentage of patients with anemia of chronic disease</u>.</li> <li>MGH Hnadbook of Internal Medicine: Anemia of chronic inflammation (ACI; NEJM 2005;352:1011).</li> <li>Impaired iron utilization &amp; ↓epo-responsiveness due to ↑hepcidin &amp; cytokines</li> </ul>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	<ul> <li>Dx: ↓Fe, ↓TIBC, ± ↑ferritin; usually normocytic but can be microcytic if prolonged</li> </ul>
	<ul> <li>ACI w/Fe-deficiency anemia: soluble transferrin receptor (sTFR) ↑in Fe deficiency sTFR/log Ferritin: &gt; 2 →ACI w/ Fe deficiency; &lt; 1 →ACI alone (Blood 1997;89:1052)</li> </ul>
	• Treatment: treat underlying disease ± erythropoietin; for cancer- or chemo- related use epo for goal Hb 10-12 (11-12 if sx) g/dl. Iron if ferritin < 100 or Fe/TIBC < 20%.
<b>09-233.</b> +Hem+Cel. A 70-year-old white male presents with fatigue, weakness, and foot paresthesias. His hemoglobin level is 10.5 g/dL (N 12.6–17.4). His peripheral smear is shown in the <b>Figure.</b> Which one of the following is the most likely diagnosis? A) Iron deficiency anemia B) Vitamin B12 deficiency anemia C) Hemolytic anemia D) Acute myelogenous leukemia E) Chronic myelogenous leukemia	Anemia, pernicious anemia. ANS=B. The <u>blood smear shows a hypersegmented</u> polymorphonuclear (PMN) white blood cell, typical of vitamin B12 deficiency with pernicious anemia. The anemia is of the macrocytic type (MCV >100 $\mu$ m3). There is no evidence of hemolysis or leukemia. While iron deficiency anemia can be a coexisting problem, the hypersegmented PMN is classic for vitamin B12 deficiency. It is important to note that elderly patients with vitamin B12 deficiency may have neurologic signs and symptoms before developizz1qq1ng hematologic abnormalities.
<ul> <li>07-093. +Hem+Adm. An asymptomatic 32-year-old African-American female presents with a hemoglobin concentration of 10.2 g/dL and a mean corpuscular volume (MCV) of 68 um3. Iron studies are normal. In which one of the following would a normal pattern on hemoglobin electrophoresis be expected?</li> <li>A) A-Thalassemia minor (trait)</li> <li>B) B-Thalassemia minor (trait)</li> <li>C) B-Thalassemia major</li> <li>D) Hemoglobin SC disease</li> <li>E) Hemoglobin H disease</li> </ul>	Anemia, thalassemia. 07-093. Thalassemia is an inherited hematologic disorder that affects the balanced production of globin chains of the hemoglobin molecule. ANS=A. Normal adult hemoglobin contains two A chains and two B chains that are produced in equal amounts. Thalassemia minor results in a partial reduction in the production of either the A- or B-chains. Patients with this problem usually have hypochromic, microcytic red blood cells with a normal or elevated RBC count and mildly reduced hemoglobin. In B-thalassemia minor, hemoglobin electrophoresis is abnormal and shows a decreased concentration of HbA and an increase in HbA2. In A-thalassemia minor A-chain production is reduced but there is no increase in other abnormal hemoglobins and electrophoresis is normal. If the production of A-chains is severely reduced it results in the production of hemoglobins with all B- chains, termed Hb H, or all G-chains, called Hb Barts. B-Thalassemia major is a severe anemic syndrome without the production of any HbA. An abnormal hemoglobin consisting of four A-chains is found on electrophoresis. Hemoglobin SC is an abnormal nemoglobin with amino acid substitution in the globin chain that is abnormal on electrophoresis.
<ul> <li>08-173. +Hem+Adm. Which one of the following causes of anemia is associated with a normal red cell distribution width?</li> <li>A) Vitamin B12 deficiency</li> <li>B) Iron deficiency</li> <li>C) B-Thalassemia trait</li> </ul>	Anemia, thalassemia. <b>08-173.</b> Anemia, B-Thalassemia trait vs. iron deficiency. <b>ANS=C.</b> <u>Red cell distribution width (RDW) is particularly useful in</u> <u>distinguishing anemic disorders</u> , especially iron deficiency anemia (high RDW, normal to low mean corpuscular volume) and uncomplicated heterozygous thalassemia, i.e., <u>B-Thalassemia trait (normal RDW, low mean</u>
D) Sideroblastic anemia E) Myelofibrosis	<u>corpuscular volume).</u>
<ul> <li>10-148. +Hem+ Cca.?* You see a 1-year-old male for a routine well child examination. Laboratory tests reveal a hemoglobin level of 10 g/dL (N 9–14), a hematocrit of 31% (N 28–42), a mean corpuscular volume of 68 _m3 (N 70–86), and a mean corpuscular hemoglobin concentration of 25 g/dL (N 30–36). A trial of iron therapy results in no improvement and a serum lead level is normal. Which one of the following would be the most appropriate test at this time?</li> <li>A) Hemoglobin electrophoresis</li> <li>B) Bone marrow examination</li> <li>C) Vitamin B12 and folate levels</li> <li>D) A TSH level</li> </ul>	Anemia, thalassemia. <b>10-148. ANS=A.</b> This patient has a microcytic, hypochromic anemia, which can be caused by iron deficiency, thalassemia, sideroblastic anemia, and lead poisoning. <u>In a child with a microcytic anemia</u> who does not respond to iron therapy, hemoglobin electrophoresis is <u>appropriate to diagnose thalassemia.</u> Hypothyroidism, vitamin B12 deficiency, and folate deficiency result in macrocytic anemias.
<b>07-059.</b> +Int+Adm. A 60-year-old male was seen in your clinic 2 days ago for heart failure and hypertension. You initiated an ACE inhibitor to address both of these conditions. His current medications include lisinopril (Prinivil, Zestril), metoprolol (Toprol), and low-dose aspirin. He called the clinic today with some difficulty swallowing and a swollen upper lip. He denies any hives. The patient's complaints are most likely due to A) Ludwig's angina B) cholinergic urticaria C) dependent edema D) angina pectoris E) angioedema	Angioedema. 07-059. ACE inhibitors. Angioedema is a subcutaneous or deep tissue edema from mast cell release (as in an allergic reaction) or an increase in vascular permeability from bradykinin release (as seen with ACE inhibitors) or complement system abnormalities. ANS=E. Ludwig's angina is a cellulitis in the submandibular or sublingual areas. Cholinergic urticaria is manifested by hives associated with sweating or hot showers. Dependent edema is swelling in the lower or dependent portions of the body and can be associated with calcium channel blockers. Angina pectoris is not a well-documented cause of angioedema.
<b>09-075.</b> +Car+Adm. A 68-year-old African-American male with a history of hypertension and heart failure continues to have shortness of breath and fatigue after walking only one block. He has normal breath sounds, no murmur, and no edema on examination. His current medications include furosemide (Lasix), 20	Angioedema. 09-075. ACE inhibitors. Heart failure,Systolic. ANS=E. In patients with systolic heart failure, the usual management includes an ACE inhibitor and a B-blocker. Since this patient had angioedema with an ACE inhibitor, an angiotensin receptor blocker may cause this side effect as well.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>mg/day, and metoprolol extended-release (Toprol-XL), 50 mg/day. He previously took lisinopril (Prinivil, Zestril), but it was discontinued because of angioedema. A recent echocardiogram showed an ejection fraction of 35%. Which one of the following would be most likely to improve both symptoms and survival in this patient?</li> <li>A) Valsartan (Diovan)</li> <li>B) Metolazone (Zaroxolyn)</li> <li>C) Digoxin</li> <li>D) Verapamil (Calan, Isoptin)</li> </ul>	Adding metolazone is generally not necessary unless the patient has volume overload that does not respond to increased doses of furosemide. Digoxin may improve symptoms, but has not been shown to increase survival. For patients who cannot tolerate an ACE inhibitor, especially African- Americans, a combination of direct-acting vasodilators such as isorbide and hydralazine is preferred. Verapamil has a negative inotropic effect and should not be used.
E) Isosorbide/hydralazine (BiDil)	
<b>07-011.</b> +Car+Adm. Which one of the following ankle-brachial index (ABI) ranges is associated with the lowest rate of leg pain and claudication? A) 1.00–1.39 B) 0.70–0.99 C) 0.40–0.69 D) <0.40	Ankle-brachial index (ABI). 07-011. ANS=A. The average ABI in patients with nonperipheral arterial disease has been reported to be approximately 1.15. One study compared patients whose ABI was 1.10–1.19 with those whose ABI was 1.20–1.29. The percentage of patients who had no pain was similar for the two groups (85.3% and 87.4%), and the percentage of those with classic claudication was identical (0.8%). Uptodate:  Integration (10.8%) Integration (10.8%) Integration (10.8%) Integrating pressure Integration (10.8%) Int
<b>08-213.</b> +Car+Adm. A 56-year-old white male presents with a 2-week history of intermittent pain in his left leg. The pain usually occurs while he is walking and is primarily in the calf muscle or Achilles region. Sometimes he will awaken at night with "gramme" in the affected leg. The page as leaving the set of the page as leaving the pa	Ankle-brachial index (ABI). 08-213. <u>ABI is an inexpensive, sensitive screening</u> tool and is the most appropriate first test for peripheral vascular occlusive disease (PVOD) in this patient. ANS=A. The ABI is the ratio of systolic blood
<ul> <li>with "cramps" in the affected leg. He has no known risk factors for atherosclerosis. Which one of the following would be the best initial test for peripheral vascular occlusive disease?</li> <li>A) Ankle-brachial index</li> <li>B) Arterial Doppler ultrasonography</li> <li>C) Arteriography</li> <li>D) Magnetic resonance angiography (MRA)</li> <li>E) Venous ultrasonography</li> </ul>	pressure measured in the ankle to systolic pressure using the standard brachial measurement. A ratio of 0.9–1.2 is considered normal. Severe disease is defined as a ratio <0.50. More invasive and expensive testing using Doppler ultrasonography, arteriography, or magnetic resonance angiography may be useful if the ABI suggests an abnormality. Venous ultrasonography would not detect PVOD, but it could rule out deep venous thrombosis, which is another common etiology for calf pain.
<ul> <li>b) vehous infasonography</li> <li>c) vehous infasonography</li> <li>vehous infason</li></ul>	Anorexia nervosa. <b>ANS=E.</b> Characteristic <u>vital signs in patients with severe</u> <u>anorexia nervosa include hypotension, bradycardia, and hypothermia</u> . Criteria for hospital admission include a heart rate <40 beats/min, blood pressure <80/50 mm Hg, and temperature <36°C (97°F). Increased cardiac vagal hyperactivity is thought to cause the bradycardia.
<b>07-221.</b> +Hem+Adm. In a patient with a mechanical mitral valve replacement who is taking warfarin (Coumadin), the recommended INR range is A) 1.0–2.0 B) 1.5–2.5 C) 2.0–3.0 D) 2.5–3.5	Anticoagulation. 07-221. Warfarin, INR values. ANS=D. Most conditions (DVT or PE, atrial fibrillation) requiring warfarin therapy are adequately treated at INR values between 2.0 and 3.0; patients with mechanical heart valves, especially mitral valves, may benefit from higher values (up to 3.5). Patients with thrombophilia due to antiphospholipid antibody syndrome may require a higher INR (3.0–4.0) for optimal therapy.

E) 3.0–4.0	
<b>08-208.</b> +Hem+Adm. A 69-year-old male has a 4-day history of swelling in his left leg. He has no history of trauma, recent surgery, prolonged immobilization, weight loss, or malaise. His examination is unremarkable except for a diffusely swollen left leg. A CBC, chemistry profile, prostatespecific antigen level, chest radiograph, and EKG are all normal; however, compression ultrasonography of the extremity reveals a clot in the proximal femoral vein. He has no past history of venous thromboembolic disease. In addition to initiating therapy with low molecular weight heparin, the American College of Chest Physicians recommends that warfarin (Coumadin) be instituted now and continued for at least A) 1 month B) 3 months C) 6 months D) 12 months	Anticoagulation. <b>08-208. Warfarin. ANS=B.</b> For patients with a first episode of unprovoked deep venous thrombosis, evidence supports treatment with a vitamin K antagonist for at least 3 months (SOR A). The American College of Chest Physicians recommends that patients be evaluated at that point for the potential risks and benefits of long-term therapy (SOR C). <u>Uptodate:</u> Warfarin treatment for an indefinite period is indicated for patients with recurrent venous thromboembolism or those in whom there is a continuing risk factor for venous thromboembolism (eg, active malignancy, antiphospholipid syndrome).
<b>09-066.</b> +Car+Adm. A 48-year-old male who weighs 159 kg (351 lb) is admitted to the hospital with a left leg deepvein thrombosis and pulmonary embolism. Treatment is begun with <u>enoxaparin (Lovenox)</u> . Which one of the following would be most appropriate for monitoring the adequacy of anticoagulation in this patient? A) Anti-factor Xa levels B) Activated partial thromboplastin time (aPTT) C) Daily INRs D) Daily factor VIII levels.	Anticoagulation. 09-066. Low molecular weight heparin (enoxaparin) ANS=A. In severely obese patients (>330 lb) and those with renal failure, low molecular weight heparin therapy should be monitored with anti-factor Xa levels obtained 4 hours after injection. Most other patients do not need monitoring. The INR is used to monitor warfarin therapy, and the activated partial thromboplastin time (aPTT) is used to monitor therapy with unfractionated heparin. Factor VIII levels are not used to monitor anticoagulation therapy. Hint: The EX-PresidenT went to WAR(farin)= WARfarin affects EXtrinsic pathway and mainly PT. warfarIN=INr (INR monitoring).
<ul> <li>09-167. +Hem+Adm. A 29-year-old white female is hospitalized following a right middle cerebral artery stroke confirmed by MRI. Her past medical history is remarkable only for a history of an uncomplicated tonsillectomy during childhood and a second-trimester miscarriage 3 years ago. The only remarkable finding on physical examination is left hemiplegia. The initial laboratory workup reveals normal hematocrit and hemoglobin levels, a normal prothrombin time, and a platelet count of 200,000/mm3 (N 140,000–440,000). The activated partial thromboplastin time is 95 sec (N 23.6–34.6), and it does not normalize when the patient's serum is mixed with normal plasma. A serum VDRL is positive, and a serum FTA-ABS is nonreactive. Which one of the following is the most likely diagnosis?</li> <li>A) Hemophilia</li> <li>B) Neurosyphilis</li> <li>C) Antiphospholipid syndrome</li> <li>D) Thrombotic thrombocytopenic purpura</li> <li>E) Protein C deficiency</li> </ul>	Antiphospholipid syndrome is due to the appearance of a heterogeneous group of circulating antibodies to negatively charged phospholipids, including most commonly a lupus anticoagulant and anticardiolipin antibodies. ANS=C. The antibodies are usually detected by a false-positive serologic test for syphilis (serum VDRL is positive, buta serum FTA-ABS nonreactive). Clinical features include venous and arterial thrombosis, fetal wastage, thrombocytopenia, and the presence of an activated partial thromboplastin time (aPTT) inhibitor (thus prolonged aPTT, not normalized when the patient's serum is mixed with normal plasma). It is an important diagnostic consideration in all patients with unexplained thrombosis or cerebral infarction, particularly in young patients. Although hemophilia would also be associated with a prolonged aPTT, the PTT would normalize when the patient's serum FTA-ABS result. Thrombotic thrombocytopenic purpura is not associated with prolongation of the aPTT and is associated with a hemolytic anemia. Although protein C deficiency is a hypercoagulable state that can lead to stroke, none of the laboratory abnormalities suggests this diagnosis.
<ul> <li>08-030. +Psy+Mhe. Which one of the following antipsychotic medications is most likely to cause agranulocytosis?</li> <li>A) Clozapine (Clozaril)</li> <li>B) Aripiprazole (Abilify)</li> <li>C) Risperidone (Risperdal)</li> <li>D) Olanzapine (Zyprexa)</li> </ul>	Antipsychotics. <b>08-030. Clozapine was the first atypical antipsychotic drug</b> , so designated because <b>it has antipsychotic effects without the adverse effects on movement seen with first-generation agents</b> , in addition to having <b>enhanced therapeutic efficacy compared with first-generation drugs. ANS=A.</b> Because of these advantages, it was introduced into clinical practice in the United States despite a <u>serious known adverse effect: an increased incidence of agranulocytosis</u> . Although only clozapine causes agranulocytosis in a substantial proportion of patients, <b>many second-generation drugs produce clinically significant weight gain</b> .
<ul> <li>08-200. +Psy+Mhe. A 79-year-old male has psychosis secondary to dementia associated with Parkinson's disease. After exhausting all other options you decide to prescribe an antipsychotic agent. Which one of the following would be the best choice in this situation?</li> <li>A) Haloperidol</li> <li>B) Olanzapine (Zyprexa)</li> <li>C) Risperidone (Risperdal)</li> <li>D) Quetiapine (Seroquel)</li> <li>E) Thioridazine</li> </ul>	Antipsychotics. <b>08-200</b> . <u>Quetiapine</u> is an atypical antipsychotic that has no clinically significant effect on the dopamine D2 receptor, which is responsible for the parkinsonian side effects of antipsychotic medications. ANS=D. Because of this, it is considered the antipsychotic of choice in patients with dementia associated with Parkinson's disease, although its use has not been studied extensively in this clinical situation. The other atypical antipsychotics listed, olanzapine and risperidone, have some D2 receptor effect. Thioridazine and haloperidol are typical antipsychotics and have more side effects, including parkinsonian side effects; they are not recommended in this clinical situation.
<b>09-030.</b> +Psy+Mhe. A 24-year-old female has a history of mood swings over the past several months, which have created marital and financial problems, in addition to jeopardizing her career as a television news reporter. You have made a diagnosis of bipolar disorder, and she has finally accepted the need for treatment. However, she insists that you choose a drug that "won't make me fat." Which one of the following would be best for addressing her concerns? A) Aripiprazole (Abilify) B) Olanzapine (Zyprexa) C) Quetiapine (Seroquel) D) Risperidone (Risperdal)	Antipsychotics. <b>09-030.</b> Bipolar disorder. Ans=A. <u>All of the atypical</u> <u>antipsychotics are associated with some degree of weight gain</u> . Of the choices listed, <u>aripiprazole is associated with the least amount of weight gain</u> , generally less than 1 kilogram. The other agents listed are likely to cause considerably more weight gain. <b>Bipolar I disorder have episodes of sustained</b> mania, and often experience depressive episodes. Patients with bipolar II disorder have one or more major depressive episodes, with at least one hypomanic episode. <u>Ist line therapy for acute severe manic or mixed episodes</u> is an antipsychotic agent plus either lithium or valproate.
<b>09-104.</b> +Psy+Mhe. A 24-year-old female had been healthy with no significant medical illnesses until about 3 months ago, when she was diagnosed with schizophrenia and treatment was initiated. She is now concerned because she has gained 10 lb since beginning treatment. A comprehensive metabolic panel is normal, with the exception of a fasting blood glucose level of 156 mg/dL. Which one of the following medications would be most likely to cause these findings? A) Clonazepam (Klonopin) B) Thioridazine C) Chlorpromazine D) Aripiprazole	Antipsychotics. 09-104. ANS=E. Second-generation, or <u>"atypical,"</u> antipsychotics are associated with weight gain, elevated triglycerides, and type 2 diabetes mellitus. Olanzapine and clozapine are associated with the highest risk. Clonazepam, a benzodiazepine, does not share these risks. Thioridazine and chlorpromazine are first-generation antipsychotics, and carry less risk of these side effects. Aripiprazole, although it is a second-generation antipsychotic, has been found to cause weight gain and metabolic changes similar

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
(Abilify) E) Olanzapine (Zyprexa)	to those seen with placebo.
<b>09-189.</b> +Psy+ Mhe. A 70-year-old female becomes psychotic and risperidone	Antipsychotics. 09-189. Both typical and atypical antipsychotics can cause
(Risperdal) is prescribed. Which one of the following should be used to monitor	prolongation of the QTc interval, resulting in torsades de pointes, ventricular
the patient for adverse cardiac effects of this drug? A) Serum sodium levels B)	tachycardia, and sudden death. The best way of monitoring the QTc interval
Echocardiography C) Nuclear stress testing D) Lower-extremity venous duplex	is electrocardiography. ANS=E.
ultrasonography E) Electrocardiography	
<b>09-197.</b> +Psy+Mhe. A 34-year-old white female visits your office complaining of a sore throat. She takes haloperidol, 2 mg after each meal, for schizophrenia, and	Antipsychotics. 09-197. Motor side effects of the antipsychotic drugs can be separated into five general categories: dystonias, parkinsonism, akathisia,
you notice that she seems unable to sit still and is extremely anxious. The most	withdrawal dyskinesias, and tardive dyskinesia. ANS=B. Akathisia is a
likely diagnosis is A) drug-induced parkinsonism B) akathisia C) tardive	syndrome marked by motor restlessness. Affected patients commonly
dyskinesia D) hysteria E) dystonia	complain of being inexplicably anxious, of being unable to sit still or
	concentrate, and of feeling comfortable only when moving. A diagnosis of
	hysteria is inconsistent with the findings presented.
<b>10-165.</b> +Psy+Adm.* A 45-year-old Hispanic male with schizophrenia presents with an avecable of his COPD. He approximately takes and with respect to the contract of his COPD.	Antipsychotics. <b>10-165</b> . Schizophrenia, Ziprasidone, clarithromycin, antiarrhythmics (class I and III), and tricyclic antidepressants interaction. <b>ANS=B</b> .
with an exacerbation of his COPD. He currently takes only ziprasidone (Geodon). He asks for a prescription for clarithromycin (Biaxin) because it has worked well	Ziprasidone is a second-generation antipsychotic used in the treatment of
for previous exacerbations. Which one of the following effects of this drug	schizophrenia. These drugs cause QT-interval prolongation, which can in turn
combination should you be alert for?	lead to torsades de pointes and sudden cardiac death. This risk is further
A) Stevens-Johnson syndrome	increased when these drugs are combined with certain antibiotics (e.g.,
B) Prolonged QT interval	clarithromycin), antiarrhythmics (class I and III), and tricyclic
C) Seizures	antidepressants. The FDA has issued a black box warning for both first- and
D) Diarrhea	second-generation antipsychotic drugs due to a 1.6- to 1.7-fold increase in the risk of sudden cardiac death and cerebrovascular accidents associated with their use in
E) Hypoglycemia	the elderly population (SOR A). None of the other conditions listed is associated
	with this drug combination.
<b>10-129.</b> +Res+Euc+Mhe. A 50-year-old male is brought to the emergency	Anxiety disorder with hyperventilation. ANS=B. The elevated pH, normal
department with shortness of breath, chest tighypertensioness, tremulousness, and	oxygen saturation, and low pCO2 are characteristic of acute respiratory
diaphoresis. Aside from tachypnea, the physical examination is normal. Arterial	alkalosis, as seen with acute hyperventilation states. In patients with a
blood gases on room air show a pO2 of 98 mm Hg (N 80–100), a pCO2 of 24 mm	pulmonary embolism, pO2 and pCO2 are decreased, while the pH is elevated,
Hg (N 35–45), and a pH of 7.57 (N 7.38–7.44). The most likely cause of the	indicating the acute nature of the disorder. With the other diagnoses, findings
patient's blood gas abnormalities is A) carbon monoxide poisoning	on the physical examination would be different than those seen in this patient. Vital signs would be normal with carbon monoxide poisoning, and patients with
B) anxiety disorder with hyperventilation	an asthma exacerbation have a prominent cough and wheezing, and possibly other
C) an acute exacerbation of asthma	abnormalities. Tension pneumothorax causes severe cardiac and respiratory
D) pulmonary embolus	distress, with significant physical findings including tachycardia, hypotension,
E) pneumothorax	and decreased mental activity.
<b>08-159.</b> +Car+Cca. A 16-year-old white male is seen for a preparticipation sports	Aortic insufficiency; Marfan syndrome. ANS=D. This adolescent has findings of
examination. His height is 183 cm (72 in), his weight is 64 kg (141 lb), and he	Marfan syndrome. It is associated with arachnodactly, arm span greater than height a high arched palate, kyphosic, lenticular dielection, mitral valve
appears to have long arms. A physical examination reveals a high arched palate, kyphosis, myopia, and pectus excavatum. Which one of the following valvular	height, a high arched palate, kyphosis, lenticular dislocation, mitral valve prolapse, myopia, and pectus excavatum. Cardiac examination may reveal an
abnormalities is most likely in this patient? A) Mitral stenosis B) Pulmonic	aortic insufficiency murmur, or a murmur associated with mitral valve
stenosis C) Aortic stenosis D) Aortic insufficiency E) Bicuspid aortic valve	prolapse. Cardiovascular defects are progressive, and aortic root dilation
	occurs in 80%-100% of affected individuals. Aortic regurgitation becomes
10.004D Cont Adm M A maximum has been (7 man add male and and for	more common with increasing age.
<b>10-094P.</b> +Car+Adm.>L A previously healthy 67-year-old male sees you for a routine health maintenance visit. During the physical examination you discover a	Aortic stenosis. ANS=E. Watchful waiting is recommended for most patients with asymptomatic aortic stenosis, including those with severe disease (SOR
harsh systolic murmur that is loudest over the second right intercostal space and	B). This is because the surgical risk of aortic valve replacement outweighs the
radiates to the carotid arteries. The patient denies any symptoms of dyspnea,	approximately 1% annual risk of sudden death in asymptomatic patients
angina, syncope, or decreased exertional tolerance. An echocardiogram shows	with aortic stenosis. Peripheral a-blockers, such as prazosin, should be
severe aortic stenosis, with an aortic valve area of <1 cm , a mean gradiant >40	avoided because of the risk of hypotension or syncope. Coronary
mm Hg, and an 2 ejection fraction of 60%.	angiography should be reserved for symptomatic patients who do not have
Which one of the following would be most appropriate at this point?	evidence of severe aortic stenosis on echocardiography performed to evaluate
A) Coronary angiography B) Exercise stress testing	their symptoms, or for preoperative evaluation prior to aortic valve replacement. Exercise stress testing is not safe with severe aortic stenosis
C) Treatment with prazosin (Minipress)	because of the risk of death during the test.
D) Referral for aortic valve replacement	seemese of the rish of death daring the test
E) Watchful waiting	
07-028. +Pbc+Cel. An elderly female with Alzheimer's disease is admitted to the	Appetite inducer. Megestrol acetate is a synthetic progestational agent that is
hospital for pneumonia. She has not been eating well for several weeks, so her	used to increase appetite in a variety of cachexia-inducing illnesses. ANS=E.
family requests that she be started on megestrol (Megace) for appetite stimulation. Which one of the following statements is true regarding this drug?	It has been associated with weight gain in well-designed, randomized trials in populations of patients with a malignant disease or HIV infection. Its
A) It stimulates the appetite center of the thalamus	mechanism of action is unknown. <u>Megestrol acetate doses greater than 160</u>
B) It increases the release of growth hormone	mg/day can suppress ACTH secretion, leading to secondary adrenal
C) It is associated with bleeding secondary to platelet dysfunction	insufficiency. For patients who are on chronic treatment or who are being
D) It is a glucocorticoid derivative	withdrawn from chronic treatment, consideration should be given to empiric
E) It can result in adrenal suppression	glucocorticoid treatment during times of stress, illness, or surgery. Megestrol
	acetate is associated with thrombophlebitis and pulmonary embolus, but not excessive bleeding.
<b>08-104.</b> +Mus+Adm. A 79-year-old male is admitted to the hospital because of a	Arthritis, polyarticular. ANS=B. Polyarticular arthritis often presents with
sudden inability to ambulate. He has a past history of gout. On examination his	fever, knee and other joint effusions, and leukocytosis. A 24-hour urine
temperature is 38.2°C (100.8°F) and he has bilateral knee effusions. His WBC	collection is not routine, is difficult for the patient, and typically does not change
count is 14,000/mm with 82% segs. His serum uric acid level is 8.5 mg/dL3 (N	therapy. <u>Especially in cases where a joint effusion is accompanied by fever</u> ,
<6.5). Which one of the following would be most appropriate at this point? A) 24- hour urine collection for uric acid	diagnostic arthrocentesis should be performed to help guide therapy. Allopurinol should not be initiated during an acute gouty attack, but may be
B) Arthrocentesis C) Initiation of allopurinol D) Initiation of antibiotics	started after a patient has recovered. Diuretics increase uric acid levels.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 12 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>
receive."	~ ~

on plateter tarkivity.         09-136. Hem+Ccl. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava Bi Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba       Aspirin. 09-136. ginkgo biloba interaction. ANS=E. Herbal and disaposition of other dru Ginkgo biloba has been associated with serious intracerbral bleeding. In most of these patients, concurrent anticocquitant drugs were being used. Ginkgo has been shown in vitro to inhibit platelet ageregation and has been associated with esering significations is supplement with aspirin or other anticocquitalist.         07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long-acting B-agonist D A leukotriene receptor antagonist E) A leukotriene synthesis inhibitor       Astima. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current fuer commended maintenance agent for pregnant patients (Long-acting B-agonists with mild persistent asthma: Criteria: A.Daily symptoms and Beta Agonist use         III) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist use       Besting attemating a contractive synthesis inhibitors are not recommended maintenance there you and uration of symptoms are used to develop a treatement plan: Discover of atacks: Long-acting B-agonists with inhaled corticosteroids, however, and do not have as long a D.Nocturnal symptoms more than once per week (E-Pulmonary Function Tests         III) Moderate persistent asthma: Criteria: A.Long-term       A.Decasional exacerbations of elses than twice/week).	55. +Res+Adm. A 60-year-old male presents to the urgent care center with a	
<ul> <li>Isoura a productive cough. He has a 40 packycar history of rejarcte smoking.</li> <li>In addition to bidra preunomia on a chest radiograph. Inter is an citalogic pulmonary regimes to ablestos inhibitation. Over time, and there is no eithers in history of more service ablestos with heavy and prolonged exposure to ablestos mithadition. Over time, by and prolonged exposure to ablestos mithadition. The service area marker of ablestos with heavy and prolonged exposure to ablestos mithadition. Over time, by and prolonged exposure to ablestos mithadition. The service ablestos mithadition of more service ablestos related disease (e.g., lung cancer an mesoficienza). Allogs at the differ subtances (e.g., lung cancer an mesoficienza). Allogs at the differ subtances (e.g., lung cancer an mesoficienza). Allogs at found in the proton.</li> <li>IP-001. +Hom-Adm. Which one of the following drugs inhibits platelet function for the life of he platel?.</li> <li>Aspirin 0.9-001. platelet mechanism. In spation the outper subtances as could of with platelet function by life platel?.</li> <li>IP-001. +Hom-Adm. Which one of the following drugs inhibits platelet function by life platel?.</li> <li>IP-001. +Hom-Adm. Which one of the following drugs inhibits platelet function by life platel?.</li> <li>IP-001. +Hom-Adm. Which one of the following drugs inhibits platelet function by life platel?.</li> <li>IP-001. +Hom-Adm. Which one of the following drugs inhibits platelet function by life platel?.</li> <li>IP-001. +Hom-Adm. Which one of the following drugs inhibits platelet function by life platel?.</li> <li>IP-001. +Hom-Adm. Which one of the following approximations. A duration as life activity in the infer of a mainter and the platel?.</li> <li>IP-001. +Hom-Adm. Which one of the following approximations. A duration as life activity in the infer of a mainter and the platelet function in the platelet function.</li> <li>IP-001. +Hom-Adm. Which one of the following approximations. A du</li></ul>		
<ul> <li>fever and a productive cough. He has a 40 pack/year history of cigarete smoking.</li> <li>addition to lother presumoin an a chest natiograph, there is an include product and may calcify. Most Plaques are any appromatic, and there is no evidence that plaques framsform into maxes of this finding? A) Cold dust B) Silicon dust C) Ashestos D) Vinyl chloride approximation and may calcify. Most Plaques are any appromatic, and there is no evidence that plaques framsform into maxes of the finding? A) Cold dust B) Silicon dust C) Ashestos D) Vinyl chloride approximation for more serious abelesis on holds. The plaques calculates and evidence that plaques framsform into maxes of the finding? A) Cold dust B) Silicon dust C) Ashestos D) Vinyl chloride approximation for more serious abelesis on holds. The plaques calculates and there is no evidence to the plaques (2 may calculate and radio with hour game). This should discuss the shift plaques (2 may calculates and the plaques (2 may calculates (2 may calculates and the plaques (2 may calculates (2 m</li></ul>		Asbestos inhalation. ANS=C. Development of pleural plaques is the most
In addition to low precumonia on a chest radicignaph, there is an incidental finding of bilated plenard plaques. Which one of the following is the work likely cause of this finding? A) Coal dust B) Silicon dust C) Asbestos D) Vinyl chloride E) Radon E) Ra	and a productive cough. He has a 40 pack/year history of cigarette smoking	
finding of bilated plearal plaques. Which one of the following is the most likely used that finding? Al Culd dust B) Silicon dust C) Ashestos D) Vinyl cholmed alter the physician to follow the patient for development to absetso related discusses (e.g., lung cancer un mesoficient) alter that the physician to follow the patient for development of more serious absetsors related discusses (e.g., lung cancer un mesoficient) the phately.         09-001. +Hem+Adm. Which one of the following drugs inhibits platelet function for the file of the plately?       Aspirin 109-001. platelet mechanisms is its associated with platel function provides. This should have the plately?         0) Portion       Homorar diseases (could inst and provides).       Aspirin 109-001. platelet mechanisms. It may the physican to follow the platel agreesation for the file of the plately?         1) Dictopidine (Fiscid)       Aspirin 109-001. platelet mechanisms. It may the plately for mean antiftrombotic effect is disred, but in the plately of the plately.       Aspirin 109-001. platelet mechanisms. It may that it is a biochemical anneopsilor provaganand, supersonal, superso		
cause of this finding? A) Coal dust B) Silicon dust C) Asbestos D) Vinyl chloride       milignant testons. Plaques occur in approximately 50% of persons with heavy         B) Radon       and the platestop       absettos and, therefore, are a marker of absetos exposure. This should alert the playesica to follow the patient for development of more services absetos-related disease (e.g., hung cancer a mesotheliuma). Although the gifter agenciation and service and services and se		
F) Radon       and protonged esposure to associated. with rectore, are a marker of asbestos         evelopment of more serious solid, herefore, are a marker of asbestos         evelopment of more serious solid, herefore, are a marker of asbestos         evelopment of more serious solid, herefore, are a marker of asbestos         evelopment of more serious solid, herefore, are a marker of asbestos         evelopment of more serious solid, and silicon dast with presumencinoiss, and 'yinchloride and solid later the physicion of the phatelet?         (9-00). +Hem-Adm. Which one of the following drugs inhibits platelet function for the file of the platelet?         (a) Aspirin         (b) Ippridemote (Testantine)         (c) Dippridamote (Persantine)         (c) Dippridamote (Testantine)         (c) Dippridamote (Persantine)         (c) Markanne (Cell, An eddery male patient takes aspirin, 81 mg daily, for prevention of a bart takes. He also takes berbal supplements, which one of the following supplements, and supplements, and supplements, and supplements, and supplements, and supplements, and supplement with aspirine or oblering excited with serious intracerberal bleeding. In market, aspirine, 91-36, ginkge biobia market, sonarcerent antecomols bioling, and disposition of other the following represention of a bart takes. Her also takes berbal supplements, and here the bart solid series aspirin, 81 mg daily, for prevention of a bart takes. Her also takes berbal supplements, and there the bart solid series aspirin, 81 mg daily, for prevention of a bart takes. Bart aspirin, 92 Market (19) Market and takes aspirin, 81 mg daily, for prevention of a bart takes. Bart assess th		
ccyosur. This should alert the physician to follow the patient for mesotheliona). Although the ephysician to follow the patient for mesotheliona). Although the ephysician to follow the patient of mesotheliona). Although the ephysician to follow the patient of the life of the platelet?           09-001. +Hem+Adm. Which one of the following drugs inhibits platelet function for the life of the platelet?         Aspirin. (9-001. platelet mechanism. A number of drugs inhibits platelet function for the life of the platelet?           01. Folgoridantole (Persantine)         Dirictoplatine (Triclid)         Aspirin. (9-001. platelet mechanism. A number of Augus inhibits platelet function for the life of the platelet?         Mappin. (1)           01. Folgoridantole (Persantine)         Dirictoplatine (Triclid)         Bernamente (1)         Mappin. (1)           01. Folgoridantole (Persantine)         Dirictoplatine (1)         Her effect of a singlatelet activity. (2)         Mappin. (2)           09-156. +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for represention of a heart attack. He also takes herbal supplements. Milch one of the following supplements can allow an engative interaction with aspirin? / Nawa By Yohimbine C, Saw palmetto D) Echinacea E (Ginkgo bioba         Aspirin. (9-156, ginkgo bioba mas disposition of other during trains. Alegendent coagulation factors, and therefore the also follow has been associated with arrises. Interaction allow also inhibitor           07-026. +Res+Com. In a woman with mild persistent asthma, whi	e of this finding? A) Coal dust B) Silicon dust C) Asbestos D) Vinyl chloride	malignant lesions. Plaques occur in approximately 50% of persons with heavy
ccyosur. This should alert the physician to follow the patient for mesotheliona). Although the ephysician to follow the patient for mesotheliona). Although the ephysician to follow the patient of mesotheliona). Although the ephysician to follow the patient of the life of the platelet?           09-001. +Hem+Adm. Which one of the following drugs inhibits platelet function for the life of the platelet?         Aspirin. (9-001. platelet mechanism. A number of drugs inhibits platelet function for the life of the platelet?           01. Folgoridantole (Persantine)         Dirictoplatine (Triclid)         Aspirin. (9-001. platelet mechanism. A number of Augus inhibits platelet function for the life of the platelet?         Mappin. (1)           01. Folgoridantole (Persantine)         Dirictoplatine (Triclid)         Bernamente (1)         Mappin. (1)           01. Folgoridantole (Persantine)         Dirictoplatine (1)         Her effect of a singlatelet activity. (2)         Mappin. (2)           09-156. +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for represention of a heart attack. He also takes herbal supplements. Milch one of the following supplements can allow an engative interaction with aspirin? / Nawa By Yohimbine C, Saw palmetto D) Echinacea E (Ginkgo bioba         Aspirin. (9-156, ginkgo bioba mas disposition of other during trains. Alegendent coagulation factors, and therefore the also follow has been associated with arrises. Interaction allow also inhibitor           07-026. +Res+Com. In a woman with mild persistent asthma, whi	adon	and prolonged exposure to asbestos and, therefore, are a marker of asbestos
development of more serious substos-related discusses (c.g. lung cancer an misotheriona). Although the <u>after substos-related discusses (c.g. lung cancer</u> ). none is associated with palmonar discases (cad lust an <u>silicon dust with pneumoconiosis</u> , and <u>ynit chorida and rado with lung cance</u> ). none is associated with palayes as found in this patient.           09-001. +Henr-Adm. Which one of the following drugs inhibits platelet function for the life of the platelet?         Naprin           0.1 Dipyridamb (Persantine)         Dipyridamb (Persantine)         Dipyridamb (Persantine)           D) Ticlophiline (Ticlid)         Di antitrombotic (Teffet of a sing aspirin on bleeding times can persis for op to 5 days. Other NASIADS (i.g. indomethacin, sulfinyrazone) as inhibit platelet activity, but their effect on a prostgalandin synthesis is reversible. The anti-platelet (Teffe of or platelet activity).           09-136. +Henr-Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements, which one of the following supplements can have a negative interaction with aspirin? A) Kava Bh Yohimbine C) Saw palmeto D) Echinacea E) Ginkgo biloba         Saprin. 09-136, ginkgo biloba interaction. NS=E. Herbal and dietary supplements can have a negative interactive proves the sociated with serious intracerective and base associated with ace reports of sopantaeous bleeding. Cation is essociated with ace reports of sopantaeous bleeding. Cation is errostent associated with a relatively low risk profile cating Bagoins D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitor           101 Moderate persistent asthma, which one of the following agenes is thought to be the best choice for maintenance therepand withing persistent asthma, as they determed bleeding.		
mesothiloma). Athough the ther substances listed are associated with pulmoarer (dessess (coal dust and silicon dust with preumoconoiss, and ying (doride and radio with lung cancer), none is associated with pleural plaques as found in this patient.09-001. +Hen+Adm. Which one of the following drugs inhibits platelet function (b) huprofen (C) Dipyridamole (Persantine) (D) Ticlopidine (Ticlai)Asprin. 09-001. platelet mechanism. A number of drugs inhibit platelet function (b) appring (D) Ticlopidine (Cricia) (D) Ticlopidine (Ticlai)Asprin. 09-001. platelet mechanism. A number of drugs inhibit platelet function (D) Ticlopidine (Cricia) (D) Ticlopidine (Ticlai) (D) Ticlopidine (Ticlai) (D) Ticlopidine (Ticlai) (D) Ticlopidine (Ticlai) (D) Ticlopidine (Liclai) (D) Ticlapidine (Liclai) (D) Tic		
palmoary disease (cal dust and silicon dust with preumconiosis, and ying clobrid east read radom with ung cancer), non is associated with pleural plaques as found in this patient.           09-001. +Hen+Adm. Which one of the following drugs inhibits platelet function for the life of the platelet?         Asprin: 09-001, platelet mechanism. A number of drugs inhibit platelet function for the life of the platelet?           01 Appring         Asprin: 09-001, platelet mechanism. A number of drugs inhibit platelet aggregation to ble appring is the only effective drug that interferes with platelet aggregation platelet enzyme evoloxygenes, thus inhibiting prostalandin synthesis. This platelet enzyme evoloxygenes, thus inhibiting prostalandin synthesis. This platelet enzyme evoloxygenes, thus inhibiting prostalandin synthesis is reversible. The anti-platelet effect of a disprintance is essociated with secress transmetty acceptation to be days, of the organization prostalandin synthesis is reversible. The anti-platelet effect of disprintance is essociated with secress transmetty. Near there effect or on platelet activity.           09-136, +Hen+Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the enologith secretion with aspirin? A) Kava BJ Yohimbine CJ Saw palmetto DJ Echinacea EJ Ginkgo biloba         Aspirn. 09-126, elikes baboynio, metabolism, and disposition of other dra encommended when using this supplement with aspirin. or other anticogulants.           07-026, +Res+Com. In a woman with mild persistent astma. Which one of the encommended when using this supplement with aspirin.         Astma. 07-026. Mild persistent. ANS-L Inhaled corticosteroids are encre- ensociated with case reports of spontaneous bleeding. Caution is recommended when using this supplement with		
9-001. Hem-Adm. Which one of the following drugs inhibits platelet function for the life of the platelet?         Asprin. 09-001. platelet mechanism. A number of drugs inhibit platelet function by hypofen           0) huprofen         Asprin. 09-001. platelet mechanism. A number of drugs inhibit platelet function for the life of the platelet?           0) Thirdpride methods         Asprin. 09-001. platelet mechanism. A number of drugs inhibit platelet function for the life of the platelet?           0) Disposition (Click)         Bis methods         Asprin. 09-001. platelet mechanism. A number of drugs inhibit platelet factors of the life of the platelet?           0) Thirdpride (Click)         Bis methods         Asprin. 09-001. platelet mechanism. A number of drugs inhibit platelet factors of alledet arzyme exploses. This is desired. built by asprin in the convertient of the only effective of drug victors. This phenomenon is clinically helpful when an antitromhotic effect is desired. built by asprin in blecding times can previsite of a sing asprin on blecding times can previsite of a sing asprin on blecding times can previsite of prevention of a heart attack. He also takes horbal supplements. Which one of the following agents is thought to be the bast choice for maintenance therapy during pregnancy? A) Inhield corticosteroids and aspecting with a relativel (previsite). Stang and president with a second and the isering interactive prevention by a sprint in the devisite mathematic were also takes horbic for maintenance therapy during pregnancy? A) Inhield corticosteroids I on alter of a singo sociated with case reports of spontaneous beelang. Calorinis recommended when using this supplement with asprin or other anticoagulants. This asprint or other anticoagulantis this aberen associated with secrons intractore therapy during		mesothelioma). Although the other substances listed are associated with
Plaques as found in this patient.09-001. Hem-Adm. Which one of the following drugs inhibits platelet functionfor the life of the platelet?of A spirinof Neprint() Aspirin() Dipyridamole (Persantine)() Di		pulmonary diseases (coal dust and silicon dust with pneumoconiosis, and
0-901. +Hem-Adm. Which one of the following drugs inhibits platelet function for the life of the platelet?         Aprint. 0.9-00. platelet mechanism. A number of drugs inhibits platelet function for the life of the platelet?           0.4 Aspirin         Of the platelet?         Aprint. 0.9-00. platelet mechanism. A number of drugs inhibits platelet function for the life of the platelet?.           0.1 Diricipatine (Ticlid)         Diricipatine (Ticlid)         Diricipatine (Ticlid)           1.9 Warfarin (Counnadin)         Salingsrzzone) also highlity platelet effect of a singl aspirin on bleeding times can persis for up to 5 days. Other NSAIDS (i.e., prostaglandin synthesis in tracersary surgical procedures be delayed. The effect of a singl aspirin on bleeding times can an antitro-mothositi platelet effect of dirigny classes.           09-136. +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava B Yohimbine C) Saw palmeto D) Echinacea E) Ginkgo bioba         Aspirin. 09-136, ginkgo bioba iteraction. ANSE. Herbal and dietary supplements can face the absorption, metabolism, and disposition of other dr Ginkgo bioba has been associated with seriors intracerebral bleeding. In nest of these patients, concurrent anticogaulant drugs. The concurrent of a single associated with seriors intracerebral bleeding. In nest of these patients, concurrent anticogaulant drugs. The concurrent set of these patients, soncurrent anticogaulant drugs. The concurrent set of the absorption, metabolism, and disposition of other dr metrosyntams. This of a Gringo (Ginkgo) in Baboa (bioba) taking an aspirin.           07-026. +Res+Com. In a woman with mild per		<b>vinyl chloride and radon with lung cancer</b> ), none is associated with pleural
09-00.1, Hene+Adm, Which one of the following drugs inhibits platelet function       A sprin       09-00.1, Flatelet mechanism. A number of drugs inhibit platelet function         (A) Asprin       B) Ibuprofen         (D) Biprofen       (E) Biprofen         (D) Triclogidine (Persantine)       (E) Triclogidine (Persantine)         (D) Triclogidine (Citid)       (E) Triclogidine (Persantine)         (D) Triclogidine (Citid)       (E) Warfarin (Cournadin)         (D) Triclogidine a control (Citid)       (E) Warfarin (S) was control (Cournadin)         (D) Triclogidine a control (Citid)       (E) Warfarin (S) was control (Citid)         (D) Triclogidine a control (Citid)       (E) Warfarin (S) was control (Citid)         (D) Triclogidine a control (Citid)       (E) Warfarin (S) was control (Citid)         (D) Triclogidine a control (Citid)       (E) Warfarin (S) was control (Citid)         (D) Matter (E) Control (S) was palmetto (D) Echinacea E) Ginkgo bioloa       (E) Warfarin (S) was control (Citid)         (D) Matter (E) Control (S) was palmetto (D) Echinacea E) Ginkgo bioloa       (E) Was control (Citid)		
for the life of the platelet?       but aspirin is the only reflective drug that interferes with platelet aggregation for the life of the platelet. ANS: A 1 does this by permanently acceleding synthesis. This is chore of the platelet. ANS: A 1 does this by permanently acceleding that acceleding synthesis. This is chore of the platelet. ANS: A 1 does this by permanently acceleding synthesis. This is phenomenon is clinically helpful when an antitronombic effect is desired. But in may require that necessary surgical procedures be delayed. The effect of a sing apprin on bedding immessare and is spirin. So the effect of a sing apprin able to acceleding immessare and is a biochemical antagonist of prothrombin and visual synthesis is reversible. The anti-platel effect of dipyriamole is less well understood. Warfarin is a biochemical antagonist of prothrombin and visual synthesis is reversible. The anti-platel effect of dipyriamole is less well understood. Warfarin is a biochemical antagonist of prothrombin and visual synthesis is reversible. The anti-platel effect of dipyriamole is less well understood. Warfarin is a biochemical antagonist of prothrombin and visual synthesis is reversible. The anti-platel effect of dipyriamole is less well understood. Warfarin is a biochemical antagonist of orbor drug is prothemical of the dub state of the dub state of the dub state. The also takes berbal supplements. Which one of the following supplements can have a negative interaction with spirin? A Kava By Yohimbine C) Saw palmeto D) Echinacea E) Ginkgo bibba         07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during prefaments with mild persistent asthma. The accerptor of apportaneous bleeding. Link applicing or therap with spirin? A Vava By Pareannet Vava Comismo State Current anti-acce with bleater accerptore antagonist E) A leukoriene receptor antagonist E) A		
<ul> <li>A) Asprin</li> <li>A) Asprin</li> <li>A) Asprin</li> <li>B) Buprofen</li> <li>B) Buprofen</li> <li>B) Buprofen</li> <li>D) Ficiopitine (Toidd)</li> <li>E) Warfanin (Counadin)</li> <li>Di Ficiopiti (Toidd)</li> <li>E) Warfanin (Counadin)</li> <li>Di Ficiopiti (Toidd)</li> <li>E) Warfanin (Counadin)</li> <li>Di Ficiopiti (Toidd)</li> <li>E) Warfanin (Counadin)</li> <li>Counadin)</li> <li>Counadin (Counadin)</li> <li>Counadin</li></ul>		
<ul> <li>B) buprofen         <ul> <li>Dipyrdamole (Persantine)</li> <li>Diarydamole (P</li></ul></li></ul>	ne life of the platelet?	but aspirin is the only effective drug that interferes with platelet aggregation
<ul> <li>B) buprofen         <ul> <li>Dipyrdamole (Persantine)</li> <li>Diarydamole (P</li></ul></li></ul>	spirin	for the life of the platelet. ANS: A. It does this by permanently acetylating the
<ul> <li>C) Dirjoridamole (Persantine)</li> <li>D) Ticlopidime (Ticlid)</li> <li>Paparote (Ticlid)</li> <li></li></ul>		
D) Ticlopidine (Ticlid)       may require that necessary surgical procedures be delayed. The effect of a single procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procedures be delayed. The effect of a single processary surgical procesary surg		
E) Warfarin (Coumadin)       aspirin on bleeding times can persist for up to 5 days. Other NSADDS (i.e., indomethacin, suffingyrazone) also inhibit platelet activity, but their effect on prostaglandin synthesis is reversible. The anti-platelet effect of dipyridamole is less well understood. Warfarin is a biochemical antagonist of protorombin and vitamin K-dependent coagulation factors, and therefore has on significant effect on platelet activity.         09-136. +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following appenents can have a negative interaction with aspirin? A) Kava B)       Aspirin. 09-136, ginkgo biloba interaction. ANS=E. Herbal and dietary supplements can above in vitro. 01 hibit platelet activity.         07-026. +Res+Com, In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled corticosteroids B) Inhaled corticosteroids B) Inhaled corticosteroids B) Inhaled corticosteroids and the relatively low risk profile carting B-agonist D) A leukotriene receptor antagonist J A leukotriene receptor antagonist J A leukotriene synthesis inhibitor       Asthema. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids B. Inhaled corticosteroids are more often used in more severe persistent asthma; Criteria: A.Daily symptoms and Beta Agonit B. Exacerbations affect tactivity       Asthema. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids B. Inhaled corticosteroids B. Inhaled corticosteroids B. Inhaled corticosteroids B. Inhaled corticosteroids are more often used in more severe persistent asthma; Criteria: A.Daily symptoms and		
<ul> <li>indomethacin, suffigurazonej also inhibit platelet activity, but their effect on prostaglandin synthesis is reversible. The asin-platelet effect of dipyridamole is less well understood. Warfarin is a biochemical antagonist of prothrombin and vitamin K-dependent cogulation factors, and therefore has no significant effect on platelet activity.</li> <li><b>09-136.</b> +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for of the sequence of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava By Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li><b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the schoice for maintenance therapy durit. Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.</li> <li><b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the schoice for maintenance therapy durit. Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.</li> <li><b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the schoice for maintenance therapy durit. Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.</li> <li><b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the schoice for maintenance therapy durit. Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.</li> <li><b>101</b> Moderate persistent asthma: Criteria: ADaily symptoms and Beta Agonist estimates as a fore the aspin as the orticosteroids are correctly antagonists. J A leukotriene receptor antagonist E J A leukotriene synthesis in bilobior are not recommended maintenance agent for the receptor antagonist is a cool safety. Leukotriene receptor antagonist is a cool safety aspin as a binel (hours to days)</li> <li>Disort-term synthoms more t</li></ul>	iclopidine (Ticlid)	
<ul> <li>prostaglandin synthesis is reversible. The anti-platelet effect of dipyridamole is less well understood. Warfarn is a biochemical antagonist of protrombin and vitamin K-dependent coagulation factors, and therefore has no significant effect on platelet activity.</li> <li><b>09-136.</b> +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava B Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Gong attage at the second of the structure of the following supplements can have a negative interaction with spirin? A) Kava B Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li><b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids are current the recommended maintenance agent for pregnant platents with mild persistent asthma; Unital C) A leukotriene synthesis inhibitor</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (biba) taking an aspirin.</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (croinoby (Intal) C) A leukotriene synthesis inhibitor</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (biba) taking an aspirin.</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (biba) taking an aspirin.</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (biba) taking an aspirin.</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (biba) taking an aspirin.</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (biba) taking an aspirin.</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (biba) taking an aspirin.</li> <li>Huit: Think of a Gringo (Ginkgo) in Balba (biba) taking an aspirin.</li> <li>Huit: Think</li></ul>	/arfarin (Coumadin)	aspirin on bleeding times can persist for up to 5 days. Other NSAIDs (i.e.,
prostaglandin synthesis is reversible. The anti-platelet effect of dipyridamole is less well understood. Warfarn is as biochemical antagonist of protrombin and vitamin K-dependent coagulation factors, and therefore has no significant effec on platelt activity.09-136. +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with saprin? A) Kava B Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo bilobaAssign and disposition of other dry supplements can have a negative interaction with saprin? A) Kava B yohimbine C) Saw palmetto D) Echinacea E) Ginkgo bilobaAssign and disposition of other dry supplements can have a negative interaction with saprin? A) Kava B yohimbine C) Saw palmetto D) Echinacea E) Ginkgo bilobaAssign and disposition of other dry supplements can have a negative interaction with saprin? A) Kava B yohimbine C) Saw palmetto D) Echinacea E) Ginkgo bilobaAssign and disposition of other dry supplements can have a negative interaction with saprin? A) Kava B yohimbine C) Saw palmetto D) Echinacea E) Ginkgo bilobaAssign and disposition of other dry supplements can have a negative interactive with aspirin? A Kava B yohimbine C) Saw palmetto D) Echinacea E) Ginkgo bilobaAssign and disposition of other dry supplements can have a negative interactive with aspirin? A Kava B yohimbin add supplements and have a negative interactive with saprin?07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during preganacy? A) Inhaled corticosteroid costeroid sign are nore of the sagenist with inhaled corticosteroids are more officacy with a relatively low risk profific Comolyn has a good safety recor		indomethacin, sulfinpyrazone) also inhibit platelet activity, but their effect on
<ul> <li>less well understood. Warfarin is a biochemical anagonist of profirombin and viamin K-dependent coagulation factors, and therefore has no significant effection platelet activity.</li> <li><b>09-136.</b> +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava B) Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li><b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cormony (Intal) C) A long-acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitor</li> <li><b>111</b> <u>Moderate persistent asthma:</u> Criteria: A.Daily symptoms and Beta Agonist Us</li> <li><b>111</b> <u>Moderate persistent asthma:</u> Criteria: A.Daily symptoms and Beta Agonist Us</li> <li><b>111</b> <u>Moderate persistent asthma:</u> Criteria: A.Daily symptoms and Beta Agonist Us</li> <li><b>112</b> <u>PEF variability &gt;30%</u></li> <li><b>113</b> <u>PEF variability &gt;10%</u></li> <li><b>114</b> <u>PEF between 60-80% predicted</u></li> <li><b>114</b> <u>PEF between 60-80% predicted</u></li> <li><b>115</b> <u>PEF between 60-80% predicted</u></li> <li><b>116</b> <u>Persistent asthma:</u> Criteria: A.Daily symptoms and Beta Agonist Us</li> <li><b>116</b> <u>Persistent asthma:</u> Criteria: A.Daily symptoms and Beta Agonist D. Alcukotriene receptor antagonist S = 200 Safety record but somewhat disappointing results. Its effective as is limited corticosteroids are more often used in more severe persistent asthma: Criteria: A.Daily symptoms and Beta Agonist Us</li> <li><b>115</b> <u>PEF between 60-80% predicted</u></li> <li><b>116</b> <u>Persistent asthma:</u> Criteria: A.Daily symptoms and Beta Agonist Us</li> <li><b>117</b> <u>PEF between 60-80% predicted</u></li> <li><b>17</b> <u>PEF betwee</u></li></ul>		
<ul> <li>vitamin K-Acgendent coagulation factors, and therefore has no significant effect on platelet activity.</li> <li><b>09-136.</b> +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava B) Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba</li> <li>Yo Exacerbations affect activity</li> <li>Yo Exacerbations affect activity</li> <li>Citeria: A.Daily symptoms and Beta Agonist with inhaled corticosteroids. Long-actin Essistent asthma: Criteria: A.Daily symptoms and Beta Agonist Use B.Exacerbations affect activity</li> <li>Citeria: A.Daily symptoms and Beta Agonist</li> <li>DNocturnal symptoms more th</li></ul>		
op-136. +Hem+Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava B)       Aspirin. 09-136. ginkgo biloba interaction. ANS=E. Herbal and dietary supplements can have a negative interaction with aspirin? A) Kava B)         Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba       Ginkgo biloba interaction. ANS=E. Herbal and dietary supplements can affect the absorption, metabolism, and disposition of other dru Ginkgo biloba interaction. ANS=E. Herbal and dietary supplements can affect the absorption, metabolism, and disposition of other dru Ginkgo biloba has been associated with serious intracerbral bleeding. Lation of these patients, concurrent anticoagulant drugs were being used.         07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cormolyn (Intal) C) A long-acting B-agonist D A leukotriene receptor antagonist E) A leukotriene synthesis inhibitor       Asthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroid B) Inhaled cormolyn (Intal) C) A long-acting B-agonists D A leukotriene receptor antagonist E) A leukotriene synthesis inhibitor         111) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonit use       Exacerbations affect activity         C.Exacerbations secced twice per week (may last days)       D.Nocturnal symptoms more than once per week         D.Puerturatis ast thetastility >30%       Puerturatis asthma and cor		C I
<b>09-136.</b> +Hem-Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava B y Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba       Aspirin. <b>09-136.</b> ginkgo biloba interaction. ANS=E. Herbal and diterary supplements can affect the absorption, metabolism, and disposition of other dru Ginkgo biloba has been associated with sciences interaction and the see associated with sciences interactions intracerebral bleeding. In most of these patients, concurrent anticoagulant drugs were being used. Ginkgo has been associated with sciences interaction and has been associated with sciences interactions intracerebral bleeding. In most of these patients, concurrent anticoagulant drugs were being used. Ginkgo has been associated with aspirin or other anticoagulant drugs were being used. Ginkgo has been associated with aspirin. <b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma: Criteria: A.Daily symptoms and Beta Agonist use       Asthma. <b>07-026.</b> Herest Add and therapy for asthma in pregnancy. They is a probably a reasonable add-on therapy for asthma in pregnancy. They is a cost offective as inhaled corticosteroids. There is some controcsteroids (Low or Medium dose) <b>111</b> Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist use       Bestacerbations affect activity <b>C.Exacerbations affect activity</b> Criteria: A.Daily symptoms and Beta Agonist use <b>D.Nocturnal symptoms more th</b>		vitamin K-dependent coagulation factors, and therefore has no significant effect
<b>09-136.</b> +Hem-Cel. An elderly male patient takes aspirin, 81 mg daily, for prevention of a heart attack. He also takes herbal supplements. Which one of the following supplements can have a negative interaction with aspirin? A) Kava B y Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biloba       Aspirin. <b>09-136.</b> ginkgo biloba interaction. ANS=E. Herbal and diterary supplements can affect the absorption, metabolism, and disposition of other dru Ginkgo biloba has been associated with sciences interaction and the see associated with sciences interactions intracerebral bleeding. In most of these patients, concurrent anticoagulant drugs were being used. Ginkgo has been associated with sciences interaction and has been associated with sciences interactions intracerebral bleeding. In most of these patients, concurrent anticoagulant drugs were being used. Ginkgo has been associated with aspirin or other anticoagulant drugs were being used. Ginkgo has been associated with aspirin. <b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma: Criteria: A.Daily symptoms and Beta Agonist use       Asthma. <b>07-026.</b> Herest Add and therapy for asthma in pregnancy. They is a probably a reasonable add-on therapy for asthma in pregnancy. They is a cost offective as inhaled corticosteroids. There is some controcsteroids (Low or Medium dose) <b>111</b> Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist use       Bestacerbations affect activity <b>C.Exacerbations affect activity</b> Criteria: A.Daily symptoms and Beta Agonist use <b>D.Nocturnal symptoms more th</b>		on platelet activity.
prevention of a heart attack. He also takes herbal supplements. Which one of the       supplements can fact the absorption, metabolism, and disposition of other dru         following supplements can have a negative interaction with aspirin? A) Kava BJ       supplements can affect the absorption, metabolism, and disposition of other dru         Ginkgo biloba has been associated with serious intracerebral bleeding. Caution is       supplements can fact the absorption, metabolism, and disposition of other dru         Ginkgo biloba has been associated with serious intracerebral bleeding. Caution is       seconder display in the seconder display in t	<b>36.</b> +Hem+Cel. An elderly male patient takes aspirin 81 mg daily for	
following supplements can have a negative interaction with aspirin? A) Kava By Yohimbine C) Saw palmetto D) Echinacea E) Ginkgo biobaGinkgo bioba has been associated with serious intracerebral bleeding. In most of these patients, concurrent anticoagulant drugs were being used. Ginkgo his been shown in vitro to inhibit platelet aggregation and has been associated with case reports of spontaneous bleeding. Caution is recommended when using this supplement with aspirin.07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids I Inhaled romolyn (Intal) C) A long- actim B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAsthma. 07-026. Mild persistent. ANS-A. Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma: Criteria: A.Daily symptoms and Beta Agonist useII) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist useDefense astional symptoms more than one per week (may last days) D.Nocturnal symptoms more than one per week (E.Paulmonary Function Tests I.FEV1 or PEF between 60-80% predicted 2.PEF variability >30% a.May decrease dose once Asthma well controlled b.Avoid eliminating Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Samtetrol) 3.Leukotrien Receptor Antagonist (e.g. Montelukast) 4.Consider Zileuton (Z/flo)Samterations a.May decrease dose once Asthma well controlled b.Avoid eliminating Corticosteroid (e.g. Montelukast) 4.Consider Zileuton (Z/flo)Samterations of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Continnow Symptoms a.May decrease dose once		
Yohimbine Č) Saw palmetto D) Echinacea E) Ginkgo bilobamost of these patients, concurrent anticoagulant drugs were being used. Ginkgo has been shown in vitro to inhibit platelet ageregation and has bee associated with case reports of spontaneous bleeding. Caution is recommended when using this supplement with aspirin or other anticoagulants. Hint: Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAstherace agent for pregnant patients with mild persistent asthma: Criteria: A.Daily symptoms and Beta Agonit useIII) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonit useB-agonist D) A leukotriene receptor antagonist S a leukotriene receptor antagonist S a leukotriene receptor antagonist S a.D.Nocturnal symptoms more than once per week E.Pulmonary Function Tests I.FEVI or PEF betweene 0.80% predicted 2.PEFVI or PEF betweene 0.80% predicted 2.Long-Acting Bronchodilators (e.g. Salmetrol) 3.Leukotriene Receptor Antagonist (e.g. Montelukast) 4.Consider Zileuton (Zyflo)House in pregnancy. Four classifications of asthma based on frequency and duration of symptoms are used to develop a treatment plan: I) Mild intermittent asthma: Criteria: A.Occasional exacerbations (Less than twice/month b.Axviot eliminating Corticosteroids (Low or Medium dose) a.May decrease dose once Asthma well controlled b.Axviot eliminating Corticosteroids (Low or Medium dose) a.Low acting Bronchodilators (e.g. Salmeterol) 3.Leukotriene Receptor Antagonist (Low ster Pas80% predicted 2.Long		
Ginkgo has been shown in vitro to inhibit platelet aggregation and has bee associated with case reports of spontaneous bleeding. Caution is recommended when using this supplement with aspirin or other anticoagulants. Hint: Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAsthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonist D A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorIII) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist use B.Exacerbations exceed twice per week (may last days) L.Exacerbations exceed twice per week (may last days) L.FEV1 or PEF between 60-80% predicted 2.PEF variability >30% Management: A.Long-term 1.Inhaled Corticosteroid (Low or Medium dose) a.May decrease dose once Asthma well controlled b.Avoid eliminating Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotrien Receptor Antagonist (e.g. Montelukast) 4.Consider Zilueton Zyfto) B.Abort-term rescue with beta agonist 1.PEV 1 or PEF >80% predicted 2.PEF Variability >20% Mangement: ALOng-term 1.Leukotriene Receptor Antagonist (e.g. Montelukast) 4.Consider Zilueton Zyfto) B.Abort-term rescue with beta agonist 1.V		
second display="block">associated with case reports of spontaneous bleeding. Caution is recommended when using this supplement with aspirin or other anticoagulants. Hint: Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAsthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Intervence of the used in more severe persistent asthma. as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor antagonists a not as effective as inhaled corticosteroids. Intervence, and on thave as long track record of safety. Leukotriene synthesis inhibitors are not recommended for use in pregnaney. Four classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Occasional exacerbations af less than twice/week). I.Exacerbations af less than twice/week). I.Exacerbations are beif (hours to days) 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotriene Receptor Antagonist (e.g. Montelukast) 4.Consider Zileuton (Zyflo)Notelukast) 4.De	imbine C) Saw palmetto D) Echinacea E) Ginkgo biloba	most of these patients, concurrent anticoagulant drugs were being used.
second display="block">associated with case reports of spontaneous bleeding. Caution is recommended when using this supplement with aspirin or other anticoagulants. Hint: Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAsthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Intervence of the used in more severe persistent asthma. as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor antagonists a not as effective as inhaled corticosteroids. Intervence, and on thave as long track record of safety. Leukotriene synthesis inhibitors are not recommended for use in pregnaney. Four classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Occasional exacerbations af less than twice/week). I.Exacerbations af less than twice/week). I.Exacerbations are beif (hours to days) 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotriene Receptor Antagonist (e.g. Montelukast) 4.Consider Zileuton (Zyflo)Notelukast) 4.De		Ginkgo has been shown in vitro to inhibit platelet aggregation and has been
recommended when using this supplement with aspirin or other anticogalants. Hint: Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.           07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled romoly (Intal) C) A long acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitor         Asthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited conticosteroids are more offen used in more severe persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited conticosteroids are more offen used in more severe persistent asthma. They have prove offen ace with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited conticosteroids are more offen used in more severe persistent asthma, as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor antagonists are probably a reasonable add-on therapy for asthma in pregnancy. They a not as effective as inhaled corticosteroids, however, and do not have as long a tack record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.           1.FEV1 or PEF between 60-80% predicted         AOccasional exacerbations are biref (hours to days)           a.May decrease dose once Asthma well controlled         A.Occasional exacerba		
anticoagulants. <b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAsthma. <b>07-026.</b> the commended maintenance agent for pregnant patients with mild persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited conticosteroids are more often used in more severe toricosteroids are more often used in more severe emission affect activity C.Exacerbations affect activity C.Exacerbations affect activity C.Exacerbations exceed twice per week (may last days) D.Nocturnal symptoms more than once per week E.Pulmonary Function Tests I.FEVI or PEF between 60-80% predicted 2.PEF variability >30% Management: A.Long-term I.Inhaled Corticosteroid (Low or Medium dose) a.May decrease dose one Asthma well controlled b.Avoid eliminating Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotrien Receptor Antagonist (e.g. Montelukast) 4.Constitut (Zyflo) B.Short-term rescue with beta agonist I.V) Severe persistent asthma: II.Criteria A.Continuous Symptomsanticoagulants. Anto daily medications necessary A.No daily medications necessary A.No daily medications are needed		
Hint: Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.07-026. +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cormolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAsthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are curren the recommended maintenance agent for pregnant patients with mild persistent asthma: They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited corticosteroids are more often used in more severe persistent asthma: Criteria: A.Daily symptoms and Beta Agonit useIII) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonit useIII.) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonit useI.Exacerbations affect activity C.Exacerbations exceed twice per week (may last days)D.Nocturnal symptoms more than once per week E.Pulmonary Function Test 1.FEV1 or PEF between 60-80% predicted 2.PEF variability >30%Management: A.Long-term1.Inhaled Corticosteroid s.Long-eterm 0.Avoid eliminating Corticosteroid completely2.Long-Acting Bronchodilators (e.g. Montelukast)3.Leukotriene Receptor Antagonist (e.g. Montelukast)4.Consider Zileuton (Zyflo)B.Short-term rescue with beta agonist IV) Severe persistent asthma: I.CriteriaV) Severe persistent asthma: L.CriteriaA.Continuous SymptomsB.Inhaled short acting Beta agonist A.Continuous Symptoms		
<b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAsthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Success are ore often used in more severed persistent asthma; Criteria: A.Daily symptoms and Beta Agonist useAsthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current the recommended maintenance demaintenance agent for pregnant patients with mild persistent asthma: They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin distance agent for pregnant patients with mild persistent asthma: They have proven efficacy with a relatively low risk profile Cromlyn has a good safety record but somewhat disappointing results. Its effectiveness is limited corticosteroids. Long-actin B-agonists with inhaled corticosteroids are more often used in more severe persistent asthma; Criteria A.Ocacian symptoms more than once per week E.Pulmonary Function Tests a.Ray decrease		anticoagulants.
<b>07-026.</b> +Res+Com. In a woman with mild persistent asthma, which one of the following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorAsthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current the recommended maintenance agent for pregnant patients with mild persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Success are ore often used in more severed persistent asthma; Criteria: A.Daily symptoms and Beta Agonist useAsthma. 07-026. Mild persistent. ANS=A. Inhaled corticosteroids are current the recommended maintenance demaintenance agent for pregnant patients with mild persistent asthma: They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids. Long-actin distance agent for pregnant patients with mild persistent asthma: They have proven efficacy with a relatively low risk profile Cromlyn has a good safety record but somewhat disappointing results. Its effectiveness is limited corticosteroids. Long-actin B-agonists with inhaled corticosteroids are more often used in more severe persistent asthma; Criteria A.Ocacian symptoms more than once per week E.Pulmonary Function Tests a.Ray decrease		Hint: Think of a Gringo (Ginkgo) in Balboa (biloba) taking an aspirin.
following agents is thought to be the best choice for maintenance therapy during pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorthe recommended maintenance agent for pregnant patients with mild presistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited corticosteroids. Long-actin B-agonist Di Aleukotriene receptor antagonist E) A leukotriene synthesis is B-agonist exceed twice per week (may last days)the recommended maintenance agent for pregnant patients with mild persistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited corticosteroids are more often used in more severe persistent asthma, as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor astloganists are probably a reasonable add-on therapy for asthma in pregnancy. They a not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommended track record of safety. Leukotriene synthesis inhibitors are not recommended track record of asthma based on frequency and duration of symptoms are used to develop a treatment plan: D Mild intermittent asthma: Criteria: A.Occasional exacerbations are biref (hours to days)a.May decrease dose once Asthma well controlled b.Avoid eliminating Corticosteroid completelyE.Asymptomatic C.Normal Pulmonary Function Test between exacerbations (Less than twice/month B.Asymptomatic2.Long-Acting Bronchodilators (e.g. Montelukast)I.EVI or PEF >80%	26 +Res+Com In a woman with mild persistent asthma which one of the	
pregnancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long- acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorpresistent asthma. They have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited corticosteroids are more often used in more severe persistent asthma. Criteria: A.Daily symptoms and Beta Agonist useIII) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist useDescerbations affect activity C.Exacerbations affect activity C.Exacerbations exceed twice per week (may last days) D.Nocturnal symptoms more than once per week E.Pulmonary Function Tests 1.FEV1 or PEF between 60-80% predicted 2.PEF variability>30% Management: A.Long-term 1.Inhaled Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotriene Receptor Antagonist (e.g. Montelukast) 4.Consider Zileuton (Zyflo)Descere persistent asthma: I.Criteria A.Continuous SymptomsThey have proven efficacy with a relatively low risk profile Cromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited corticosteroids. Long-acting Banderd their persistent asthma: Descere persistent asthma: Descere persistent asthma: I.Criteria A.Continuous SymptomsPresent desceres the frequency of attacks. Descere persistent asthma: Descere persistent asthma: D.Noturnal exacerbations are less than twice/week). I.EEV1 or PEF >80% predicted 2.PEF Variability <20%		
acting B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis inhibitorCromolyn has a good safety record but somewhat disappointing results. Its effectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonist with inhaled corticosteroids are more often used in more severe epresitent asthma: Criteria: A.Daily symptoms and Beta Agonist useIII) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist useBeta Agonist B-agonists with inhaled corticosteroids are more often used in more severe epresistent asthma, as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor antagonists are probably a reasonable add-on therapy for asthma in pregnancy. They a not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.1.FEV1 or PEF between 60-80% predicted 2.PEF variability >30%Four classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Occasional exacerbations are less than twice/week).1.Inhaled Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotriene Receptor Antagonist (e.g. Montelukast)I.Ever or PEF >80% predicted 2.PEF Variability <20%		
inhibitoreffectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids are more often used in more severe persistent asthma: Criteria: A.Daily symptoms and Beta Agonist weIII) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist weB-agonists with inhaled corticosteroids are more often used in more severe persistent asthma, as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor antalms in pregnancy. They a not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.1.FEV1 or DEF between 60-80% predicted 2.PEF variability >30%Four classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose) a.May decrease dose once Asthma well controlled 2.Long-Acting Bronchodilators (e.g. Salmeterol)I.Exacerbations are brief (hours to days)3.Leukotriene Receptor Antagonist (e.g. Montelukast)I.FEV1 or PEF >80% predicted 2.PEF Variability <20%	nancy? A) Inhaled corticosteroids B) Inhaled cromolyn (Intal) C) A long-	<b><u>persistent asthma</u></b> . They have proven efficacy with a relatively low risk profile.
inhibitoreffectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids are more often used in more severe persistent asthma: Criteria: A.Daily symptoms and Beta Agonist weIII) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist weeffectiveness is limited compared to that of inhaled corticosteroids. Long-actin B-agonists with inhaled corticosteroids are more often used in more severe persistent asthma; as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor antagonists are probably a reasonable add-on therapy for asthma in pregnancy. They a not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.I.FEV1 or PEF between 60-80% predicted 2.PEF variability >30%Four classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Salmeterol)E.Nortmal Pulmonary Function Test between exacerbations 1.FEV1 or PEF >80% predicted 2.PEF Variability <20%	g B-agonist D) A leukotriene receptor antagonist E) A leukotriene synthesis	Cromolyn has a good safety record but somewhat disappointing results. Its
B-agonists with inhaled corticosteroids are more often used in more severed persistent asthma: Criteria: A.Daily symptoms and Beta Agonist useB-agonists with inhaled corticosteroids are more often used in more severed persistent asthma, as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor antagonists are probably a reasonable add-on therapy for asthma in pregnancy. They a not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommended for use in pregnancy.2.PEF variability >30%Four classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Occasional exacerbations are brief (hours to days)3.May decrease dose once Asthma well controlled 0.Avoid eliminating Corticosteroid completely2.Nocturnal exacerbations are best han twice/month B.Asymptomatic3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted 2.PEF Variability <20%		
III) Moderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist usepersistent asthma, as they decrease the frequency of attacks. There is some controversy about their effect on mortality. Leukotriene receptor antagonists are probably a reasonable add-on therapy for asthma in pregnancy. They a not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.I.FEV1 or PEF between 60-80% predicted 2.PEF variability >30%Four classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Occasional exacerbations are less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose) a.May decrease dose once Asthma well controlled b.Avoid eliminating Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotriene Receptor Antagonist (e.g. Montelukast)A.Oscasional exacerbations are less than twice/month B.AsymptomaticI.FEV1 or PEF >80% predicted 2.PEF variability <20%		· · · · · · · · · · · · · · · · · · ·
usecontroversy about their effect on mortality. Leukotriene receptor antagonistsB.Exacerbations affect activityc.Exacerbations exceed twice per week (may last days)not as effective as inhaled corticosteroids, however, and do not have as long aD.Nocturnal symptoms more than once per weektrack record of safety. Leukotriene synthesis inhibitors are not recommendedE.Pulmonary Function Testsfor use in pregnancy.1.FEV1 or PEF between 60-80% predictedFour classifications of asthma based on frequency and duration of symptoms ar2.PEF variability >30%used to develop a treatment plan: 1) Mild intermittent asthma: Criteria:Management: A.Long-termA.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose)1.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completely2.Nocturnal Pulmonary Function Test between exacerbations1.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%		
B.Exacerbations affect activityare probably a reasonable add-on therapy for asthma in pregnancy. They a not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.D.Nocturnal symptoms more than once per weektrack record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.E.Pulmonary Function Testsfor use in pregnancy.1.FEV1 or PEF between 60-80% predictedFour classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: 1) Mild intermittent asthma: Criteria: A.Occasional exacerbations are brief (hours to days)1.Inhaled Corticosteroids (Low or Medium dose)1.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%	Adderate persistent asthma: Criteria: A.Daily symptoms and Beta Agonist	
C.Exacerbations exceed twice per week (may last days)not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.D.FEV1 or PEF between 60-80% predictedFour classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: I) <u>Mild intermittent asthma: Criteria:</u> A.Occasional exacerbations (Less than twice/week).Management: A.Long-termA.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose) a.May decrease dose once Asthma well controlled b.Avoid eliminating Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotriene Receptor Antagonist (e.g. Montelukast)D.Nocturnal exacerbations are less than twice/month B.Asymptomatic C.Normal Pulmonary Function Test between exacerbations 1.FEV1 or PEF >80% predicted 2.PEF Variability <20%		controversy about their effect on mortality. <b>Leukotriene receptor antagonists</b>
C.Exacerbations exceed twice per week (may last days)not as effective as inhaled corticosteroids, however, and do not have as long a track record of safety. Leukotriene synthesis inhibitors are not recommende for use in pregnancy.D.FeV1 or PEF between 60-80% predictedFour classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: I) <u>Mild intermittent asthma: Criteria:</u> A.Occasional exacerbations (Less than twice/week).Management: A.Long-termA.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose) a.May decrease dose once Asthma well controlled b.Avoid eliminating Corticosteroid completely 2.Long-Acting Bronchodilators (e.g. Salmeterol) 3.Leukotriene Receptor Antagonist (e.g. Montelukast)D.Nocturnal exacerbations are less than twice/month B.Asymptomatic C.Normal Pulmonary Function Test between exacerbations 1.FEV1 or PEF >80% predicted 2.PEF Variability <20%	acerbations affect activity	are probably a reasonable add-on therapy for asthma in pregnancy. They are
D.Nocturnal symptoms more than once per weektrack record of safety. Leukotriene synthesis inhibitors are not recommendeE.Pulmonary Function Testsfor use in pregnancy.1.FEV1 or PEF between 60-80% predictedFour classifications of asthma based on frequency and duration of symptoms ar2.PEF variability >30%used to develop a treatment plan: I) <u>Mild intermittent asthma: Criteria:</u> Management: A.Long-termA.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose)1.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%		
E.Pulmonary Function Testsfor use in pregnancy.1.FEV1 or PEF between 60-80% predictedFour classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: I) Mild intermittent asthma: Criteria: A.Occasional exacerbations (Less than twice/week).Management: A.Long-termA.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose)1.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%		
1.FEV1 or PEF between 60-80% predictedFour classifications of asthma based on frequency and duration of symptoms ar used to develop a treatment plan: I) Mild intermittent asthma: Criteria: A.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose)A.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose)I.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%		
2.PEF variability >30%used to develop a treatment plan: I) Mild intermittent asthma: Criteria:Management: A.Long-termA.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose)1.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%		
Management: A.Long-termA.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose)1.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%	V1 or PEF between 60-80% predicted	Four classifications of asthma based on frequency and duration of symptoms are
Management: A.Long-termA.Occasional exacerbations (Less than twice/week).1.Inhaled Corticosteroids (Low or Medium dose)1.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%	F variability >30%	used to develop a treatment plan: I) Mild intermittent asthma: Criteria:
1.Inhaled Corticosteroids (Low or Medium dose)1.Exacerbations are brief (hours to days)a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%		
a.May decrease dose once Asthma well controlled2.Nocturnal exacerbations are less than twice/monthb.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%		
b.Avoid eliminating Corticosteroid completelyB.Asymptomatic2.Long-Acting Bronchodilators (e.g. Salmeterol)C.Normal Pulmonary Function Test between exacerbations3.Leukotriene Receptor Antagonist (e.g. Montelukast)1.FEV1 or PEF >80% predicted4.Consider Zileuton (Zyflo)2.PEF Variability <20%		
2.Long-Acting Bronchodilators (e.g. Salmeterol)       C.Normal Pulmonary Function Test between exacerbations         3.Leukotriene Receptor Antagonist (e.g. Montelukast)       1.FEV1 or PEF >80% predicted         4.Consider Zileuton (Zyflo)       2.PEF Variability <20%	y decrease dose once Asthma well controlled	2.Nocturnal exacerbations are less than twice/month
2.Long-Acting Bronchodilators (e.g. Salmeterol)       C.Normal Pulmonary Function Test between exacerbations         3.Leukotriene Receptor Antagonist (e.g. Montelukast)       1.FEV1 or PEF >80% predicted         4.Consider Zileuton (Zyflo)       2.PEF Variability <20%	oid eliminating Corticosteroid completely	B.Asymptomatic
3.Leukotriene Receptor Antagonist (e.g. Montelukast)       1.FEV1 or PEF >80% predicted         4.Consider Zileuton (Zyflo)       2.PEF Variability <20%		
4.Consider Zileuton (Zyflo)       2.PEF Variability <20%		
B.Short-term rescue with beta agonist       Management:         IV) Severe persistent asthma: II.Criteria       A.No daily medications necessary         A.Continuous Symptoms       B.Inhaled short acting Beta agonist as needed		
IV) Severe persistent asthma:       II.Criteria         A.Continuous Symptoms       B.Inhaled short acting Beta agonist as needed		2.PEF Variability <20%
IV) Severe persistent asthma:       II.Criteria         A.Continuous Symptoms       B.Inhaled short acting Beta agonist as needed	ort-term rescue with beta agonist	Management:
A.Continuous Symptoms B.Inhaled short acting Beta agonist as needed		
the second se		
1.Interferes with sleep and activity     C.If beta agonist use more than twice per week:		
B.Frequent exacerbations and nocturnal symptoms 1.Step-up to Mild Persistent Asthma Management	equent exacerbations and nocturnal symptoms	1.Step-up to Mild Persistent Asthma Management
C.Pulmonary Function Tests 2.Consider long-term control (Inhaled Corticosteroids)		
	*	II) Mild persistent asthma: Criteria: A.Frequent exacerbations (>2x/week) but
2.PEF variability > 30% not daily	F variability > $30\%$	
Management: B.Exacerbations may affect activity	agement:	B.Exacerbations may affect activity
A.Rule out Other Etiologies C.Nocturnal symptoms more than twice per month		
	•	
1.Non-compliance D.Pulmonary Function Test Criteria	1	
2.Cystic Fibrosis 1.FEV1 or PEF > 80% predicted		
B.Long-term daily control medication 2.PEF variability 20-30%	ing-term daily control medication	2.PEF variability 20-30%
1.Inhaled Corticosteroid (High dose) and Management: A.Long-term control with one Anti-Inflammatory medication		•
2.Long acting beta agonist Bronchodilator and 1.Inhaled Corticosteroid (Low Dose)		
3.Leukotriene Receptor Antagonist (Montelukast) 2.Inhaled Cromolyn or Nedocromil		
4.Consider Zileuton (Zyflo) 3.Do not substitute with Long-acting Beta Agonist	nsider Zileuton (Zyflo)	3.Do not substitute with Long-acting Beta Agonist
5. Consider Systemic Corticosteroids (2 mg/kg/day to 60 mg/day) a. Risks loss of Asthma control		
o.consider Anti-rge i nerapy (Omanzumao) [ 0.steroids are key management of persistent Astima	nsider Anti LaE Therapy (Omalizymah)	DOUGLOIUS ALC KEY HAHAGEHEIL OF DETSISTENT ASTIMA
a.Indicated in severe refractory (Step 5-6) Asthma with IgE levels >75 c.Long-acting Beta Agonist is in addition to steroids	nsider Anti-IgE Therapy (Omalizumab)	

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
b.Subcutaneous Injection every 2-4 weeks	4. Adult stable patients may taper steroids to half dose
C.Other measures: 1.Short term rescue with beta agonist	B.Short-term 1.Rescue with beta agonist
	2.Increased use may indicate Moderate Persistent Asthma
<b>07-063.</b> +Res+Cca. A 12-year-old African-American female with asthma presents with a 2-day history of increasing cough and wheezing, preceded by symptoms of an upper respiratory infection. On examination she has a temperature of 37.2E C (99.0E F), 2+ expiratory wheezes throughout, and a peak flow of 50% of expected. Her oxygen saturation is 96%. Which one of the following is true regarding treatment of this patient? A) Intravenous corticosteroids have been proven to be more beneficial than oral corticosteroids B) A nebulizer is better than an inhaler with a spacer for administering B2-agonists C) Intravenous	Asthma. 07-063. Ipratropium plus inhaled B2-agonists. The addition of ipratropium to inhaled B2-agonists has been found to be more effective in acute asthmatic attacks than B2-agonists alone. ANS=D. Sudden exacerbations of asthma are common in children. Numerous treatments have been used in the past. B2-Agonists have been shown to be equally effective whether administered via an inhaler and spacer device or by nebulization. As long as the gastrointestinal tract is working, intravenous corticosteroids have no benefit over oral corticosteroids. Intravenous theophylline, which once was the mainstay of
theophylline is recommended as a second-line therapy in acute asthma exacerbations D) Ipratropium (Atrovent) added to an inhaled B2-agonist lessens the need for hospitalization	treatment, now is used only in a hospital setting to treat severe asthma not responding to other treatments. The marginal improvement is not great enough to outweigh the potential risk of cardiovascular, gastrointestinal, or central nervous system toxicity.
<ul> <li>08-112. +Res+Cca. A 12-year-old female has a cough and slight shortness of breath on a daily basis. She is awakened by the cough at least 3 nights per week. Which one of the following would be the most appropriate treatment for this patient?</li> <li>A) Inhaled corticosteroids daily</li> <li>B) An oral leukotriene inhibitor as needed</li> <li>C) Oral prednisone daily</li> <li>D) A short-actingagonist daily</li> <li>E) A long-actingagonist daily</li> </ul>	Asthma. 08-112. <u>Moderate persistent asthma</u> : This patient has moderate persistent asthma. ANS=A. <u>The preferred and most effective treatment is daily</u> <u>inhaled corticosteroids</u> . A leukotriene inhibitor would be less effective. Oral prednisone daily is not recommended because of the risk of inducing adrenal insufficiency. Short- and long-acting B-agonists are not recommended as daily therapy because either can cause tachyphylaxis. They are considered rescue medications rather than preventive treatments.
<ul> <li>08-207. +Res+Adm. A 24-year-old female with a past history of asthma presents to the emergency department with an asthma exacerbation. Treatment with an inhaled bronchodilator and ipratropium (Atrovent) does not lead to significant improvement, and she is admitted to the hospital for ongoing management. On examination she is afebrile, her respiratory rate is 24/min, her pulse rate is 92 beats/min, and oxygen saturation is 92% on room air. She has diffuse bilateral inspiratory and expiratory wheezes with mild intercostal retractions. Which one of the following should be considered in the acute management of this patient?</li> <li>A) Chest physical therapy</li> <li>B) Inhaled fluticasone/salmeterol (Advair)</li> <li>C) Oral azithromycin (Zithromax)</li> <li>D) Oral prednisone</li> <li>E) Oral theophylline</li> </ul>	Asthma. <b>08-207.</b> Oral prednisone. Hospital management of acute exacerbations of asthma should include inhaled short-acting bronchodilators in all patients. ANS=D. Systemic corticosteroids (i.e. Oral prednisone) are recommended for all patients admitted to the hospital. The efficacy of oral prednisone has been shown to be equivalent to that of intravenous methylprednisolone (SOR A). Oxygen should also be considered in most patients. Antibiotics are not recommended in the treatment of asthma exacerbations unless there is a comorbid infection. Inhaled ipratropium bromide is recommended for treatment in the emergency department, but not in the hospital (SOR A). Chest physical therapy and methylxanthines are not recommended in the treatment of acute asthma exacerbations.
<b>09-019.</b> +Res+Cca. A 12-year-old white male asthmatic has an acute episode of wheezing. You diagnose an acute asthma attack and prescribe an inhaled B2-adrenergic agonist. After 2 hours of treatment, he continues to experience wheezing and shortness of breath. Which one of the following is the most appropriate addition to acute outpatient management? A) Oral theophylline (Theo-Dur) B) Oral corticosteroids C) An oral B2-adrenergic agonist D) Inhaled cromolyn (Intal) E) Inhaled corticosteroids	Asthma. 09-019. Acute. The treatment of choice (TOC) for occasional acute symptoms of asthma is an inhaled B2-adrenergic agonist such as albuterol, terbutaline, or pirbuterol. If symptoms do not respond, then they should be treated with a short course of systemic corticosteroids. ANS=B. Theophylline has limited usefulness for treatment of acute symptoms in patients with intermittent asthma; it is a less potent bronchodilator than subcutaneous or inhaled adrenergic drugs, and therapeutic serum concentrations can cause transient adverse effects such as nausea and central nervous system stimulation in patients who have not been taking the drug continuously. Cromolyn can decrease airway hyperreactivity, but has no bronchodilating activity and is useful only for prophylaxis. Inhaled corticosteroids should be used to suppress the symptoms of chronic persistent asthma. Oral B2-selective agonists are less effective and have a slower onset of action than the same drugs given by inhalation.
<ul> <li>09-168. +Res+Adm. A 12-year-old male uses a short-acting bronchodilator three times per week to control his asthma. Lately he has been waking up about twice a week due to his symptoms. Which one of the following medications would be most appropriate?</li> <li>A) Inhaled medium-dose corticosteroids</li> <li>B) A scheduled short-acting bronchodilator</li> <li>C) A scheduled long-acting bronchodilator</li> <li>D) A leukotriene inhibitor</li> </ul>	Asthma. 09-168. Moderate persistent asthma. This patient has moderate persistent asthma. ANS=A. Although many parents are concerned about corticosteroid use in children with open growth plates, <u>inhaled corticosteroids</u> <u>have not been proven to prematurely close growth plates</u> , and are the most <u>effective treatment with the least side effects</u> . Scheduled use of a shortacting bronchodilator has been shown to cause tachyphylaxis, and is not recommended. The same is true for long-acting bronchodilators. Leukotriene use may be beneficial, but compared to those using inhaled corticosteroids, patients using leukotrienes are 65% more likely to have an exacerbation requiring systemic corticosteroids.
<ul> <li>10-018. +Res+Cca.?* Which one of the following is true concerning the use of short-acting inhaled B-agonists for asthma?</li> <li>A) They should be given before any inhaled corticosteroid to facilitate lung delivery</li> <li>B) They are ineffective in patients taking B-blockers</li> <li>C) They are less effective than oral B-agonists</li> <li>D) They are less effective than anticholinergic bronchodilators when given with inhaled corticosteroids</li> <li>E) Their effects begin within 5 minutes and last 4–6 hours</li> </ul>	Asthma. 10-018. Short-acting inhaled B-agonists. ANS=E. The effects of short- acting inhaled B-agonists begin within 5 minutes and last 4–6 hours. In the past, giving inhaled B-agonists just before inhaled corticosteroids was felt to improve the delivery and effectiveness of the corticosteroids. However, this has been proven to be ineffective and is no longer recommended. B-Blockers do diminish the effectiveness of inhaled B-agonists, but this effect is not severe enough to contraindicate using these drugs together. Oral B-agonists are less potent than inhaled forms. Similarly, anticholinergic drugs cause less bronchodilation than inhaled B-agonists and are not recommended as first-line therapy.
<b>10-034.</b> +Res+Euc.>L When treating acute adult asthma in the emergency department, using a metered-dose inhaler (MDI) with a spacer has been shown to result in which one of the following, compared to use of a nebulizer?	Asthma. 10-034. <u>Albuerol metered-dose inhaler (MDI)</u> with a spacer. ANS=B. <u>Compared to nebulizers</u> , MDIs with spacers <u>have been shown to lower pulse</u> rates, provide greater improvement in peak-flow rates, lead to greater
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 14 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
A) Higher hospitalization rates	improvement in arterial blood gases, and decrease required albuterol doses.
B) Shorter stays in the emergency department	They have also been shown to lower costs, shorten emergency department
C) Higher relapse rates	stays, and significantly lower relapse rates at 2 and 3 weeks compared to
D) Less improvement in peak-flow rates	nebulizers. There is no difference in hospital admission rates.
<ul> <li>E) Increases in the total dose of albuterol</li> <li>10-083. +Res+Cca. You see a 9-year-old female for evaluation of her asthma. She</li> </ul>	Asthma. 10-083. Mild persistent. ANS=B. The 2007 update to the guidelines for
and her mother report that she has shortness of breath and wheezing 3–4 times per week, which improves with use of her albuterol inhaler. She does not awaken at night due to symptoms, and as long as she has her albuterol inhaler with her she does not feel her activities are limited by her symptoms. About once per year she requires prednisone for an exacerbation, often triggered by a viral infection. Based on this information you classify her asthma severity as A) intermittent	the diagnosis and management of asthma published by the National Heart, Lung, and Blood Institute outlines clear definitions of asthma severity. Severity is determined by the most severe category in which any feature occurs. This patient has mild persistent asthma, based on her <u>symptoms occurring more than 2 days</u> <u>per week, but not daily, and use of her albuterol inhaler more than 2 days</u> <u>per week, but not daily. Clinicians can use this assessment to help guide</u> therapy.
B) mild persistent	
C) moderate persistent	
D) severe persistent	
<ul> <li>10-101. +Res+Cca. A 14-year-old female with a history of asthma is having daytime symptoms about once a week and symptoms that awaken her at night about once a month. Her asthma does not interfere with 1 normal activity, and her FEV is &gt;80% of predicted. Which one of the following is the most appropriate treatment plan for this patient?</li> <li>A) A short-acting inhaled B-agonist as needed</li> <li>B) Low-dose inhaled corticosteroids daily</li> <li>C) A leukotriene receptor antagonist daily</li> <li>D) Medium-dose inhaled corticosteroids daily</li> </ul>	Asthma. 10-101. Intermittent. ANS=A. Based on this patient's reported frequency of asthma symptoms, she should be classified as having intermittent asthma. The preferred first step in managing intermittent asthma is an inhaled short- acting B-agonist as needed. Daily medication is reserved for patients with persistent asthma (symptoms >2 days per week for mild, daily for moderate, and throughout the day for severe) and is initiated in a stepwise approach, starting with a daily low-dose inhaled corticosteroid or leukotriene receptor antagonist and then progressing to a medium-dose inhaled corticosteroid or low-dose inhaled corticosteroid plus a long-acting inhaled B-agonist.
E) Low-dose inhaled corticosteroids plus a long-acting inhaled B-agonist daily	ion abbe initiated correspondent of a pras a rong acting initiated 2 agoinst
<b>10-200.</b> +Res+Adm. A 30-year-old female presents to your office for an initial visit. She reports a long history of asthma that currently awakens her three times per month, necessitating the use of an albuterol inhaler (Proventil, Ventolin). According to current guidelines, which one of the following would be optimal treatment?	Asthma. 10-200. Inhaled corticosteroids improve asthma control more effectively in children and adults than any other single long-term controller medication (SOR A). ANS=D. This patient has mild persistent asthma and should be treated with a low-dose inhaled corticosteroid.
<ul> <li>A) Continued use of a short-actingagonist only as needed</li> <li>B) Adding a long-actingagonist</li> <li>C) Adding a leukotriene receptor antagonist</li> </ul>	
D) Adding a low-dose inhaled corticosteroid	
E) Adding theophylline	
<ul> <li>10-206. +Res+Adm. A 40-year-old nurse presents with a 1-year history of rhinitis, and a more recent onset of episodic wheezing and dyspnea. Her symptoms seem to improve when she is on vacation. She does not smoke, although she says that her husband does. Her FEV1 improves 20% with inhaled B-agonists. Which one of the following is the most likely diagnosis?</li> <li>A) Occupational asthma</li> <li>B) Sarcoidosis</li> <li>C) COPD</li> <li>D) Anxiety</li> <li>E) Vocal cord dysfunction</li> <li>07-019. +Hem+Adm. A 66-year-old male is hospitalized for new-onset atrial fibrillation. His heart rate is controlled, and he is anticoagulated first with low molecular weight heparin and then with warfarin (Coumadin). His INR at discharge is 2.3. He presents 3 days later for follow-up and states that he feels well. His INR is now 10.0. The most appropriate management at this time would be to withhold warfarin until his INR is therapeutic and to A) readmit for monitoring, give vitamin K, and start enoxaparin (Lovenox) B) administer 2 units of fresh frozen plasma and vitamin K intramuscularly E) administer vitamin K intravenously D) administer vitamin K intramuscularly E) administer to the</li> </ul>	Asthma. 10-206. Occupational asthma merits special consideration in all cases of new adult asthma or recurrence of childhood asthma after a significant asymptomatic period (SOR C). ANS=A. Occupational asthma is often preceded by the development of rhinitis in the workplace and should be considered in patients whose symptoms improve away from work. Reversibility with B-agonist use makes COPD less likely, in addition to the fact that the patient is a nonsmoker. Cystic fibrosis is not a likely diagnosis in a patient this age with a long history of being asymptomatic. Sarcoidosis would be less likely to cause reversible airway obstruction and intermittent symptoms. Vocal cord dysfunction would not be expected to respond to bronchodilators. Atrial fibrillation. 07-019. Warfarin anticoagulation. ANS=E. The most cost- effective management for excessive anticoagulation is to administer oral vitamin K and retest the prothrombin time. This patient is not hemorrhaging, and a recent analysis has shown oral vitamin K to be as effective as intravenous or subcutaneous vitamin K. An INR greater than 8.0 does carry a risk of bleeding, so simply withholding warfarin would not be appropriate, and neither would readmission, given the high likelihood of correcting the patient's excessive anticoagulation with oral vitamin K alone.
emergency department with palpitations and is noted to be in atrial fibrillation. This resolves without treatment. Total duration was less than 2 hours. A CBC, metabolic profile, thyroid studies, EKG, and echocardiogram were all normal. Which one of the following would be most appropriate? A) Warfarin (Coumadin) B) Clopidogrel (Plavix) C) Cilostazol (Pletal) D) Dipyridamole (Persantine) E) Aspirin	fibrillation who are at low risk for embolization (age <65 years and no history of hypertension, diabetes, or heart failure), the risk for embolization is $1\%-2\%$ per year. This can be reduced to $1\%$ or less by using either warfarin or aspirin, but aspirin would be preferred because the risk of side effects is lower, as is the cost.
<b>07-239.</b> +Car+Adm. Which one of the following is shown in the EKG in? A) Atrial fibrillation B) Atrial flutter C) Multifocal atrial tachycardia D) Complete AV block E) Normal sinus rhythm	Atrial fibrillation. 07-239. <u>Baseline artifact from tremors, body shakes, etc.</u> , <u>can be confused with atrial fibrillation or atrial flutter</u> , ANS=E. Normal EKGs should have a normal P wave before each QRS. The rate and QRS complex should be normal unless sinus tachycardia is present. <u>Atrial fibrillation (AF) is</u> <u>characterized by disorganized atrial activity without discrete P waves</u> . <u>Ventricular response is irregularly irregular</u> . A slow, regular rate in a patient with AF suggests a manifestation of digitalis toxicity. Atrial flutter is characterized by an atrial rate of 250–350 beats/min. Typically the ventricular rate is one-half of the atrial rate. Classically, atrial flutter waves are seen as regular saw-tooth-like atrial activity, most prominent in the inferior leads. When the ventricular rate is regular and not a simple fraction of the atrial rate, complete heart block should be suspected, which may be a manifestation of digitalis
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 15 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007

Document copy for the sole personal use of Dr. Mario Alberto Jimenez

Document copy for the sole personal use of Dr. Mario Alberto Jimenez
toxicity. Multifocal atrial tachycardia (MAT) requires three or more consecutive P waves of different morphologies at a rate of >100 beats/min. There may be an irregular ventricular rate. This is common in digitalis toxicity, hypokalemia, and severe cardiac and pulmonary diseases, or with certain drugs (theophylline or adrenergic drugs). Complete AV block would have a significantly slower ventricular rate, and P waves would occur at irregular intervals.
Atrial fibrillation. <b>08-163. ANS=C.</b> The primary goals of atrial fibrillation treatment are rate control and prevention of thromboembolism. Guidelines recommend rate control with atenolol, metoprolol, diltiazem, or verapamil (SOR A). Digoxin does not control the heart rate with stress. Quinidine is proarrhythmic and does not control the heart rate. Nifedipine does not control the heart rate, and heparin does not provide adequate anticoagulation or control the heart rate.
Atrial fibrillation. <b>09-009.</b> Stroke, risk. <b>Ans: A.</b> The absolute rate of stroke depends on age and comorbid conditions. The <b>stroke risk index CHADS</b> , used to quantify risk of stroke for patients who have atrial fibrillation and to aid in the selection of antithrombotic therapy, is a mnemonic for individual stroke risk factors: <b>C</b> (congestive heart failure), <b>H</b> (hypertension), <b>A</b> (age $\geq \Box$ 75), <b>D</b> (diabetes mellitus), and <b>S</b> (secondary prevention for prior ischemic stroke or transient attack—most experts include patients with a systemic embolic event). Each of these clinical parameters is assigned one point, except for secondary prevention, which is assigned 2 points. Patients are considered to be at low risk with a score of 0, at intermediate risk with a score of 1 or 2, and at high risk with a score $\geq 3$ . Experts typically prefer treatment with aspirin rather than warfarin when the risk of stroke is low.
Atrial fibrillation. <b>09-064. Stroke, risk.</b> Atrial fibrillation, thromboembolic disease prevention. <b>ANS=E.</b> Randomized, controlled trials have indicated that in most patients with <u>atrial fibrillation, rate control is the best initial management.</u> Patients who were stratified to the rhythm control arm of these trials did not have lower morbidity or mortality and were more likely to suffer from adverse drug effects and increased hospitalizations. <u>The most efficacious drugs for rate control are calcium channel blockers and B-blockers.</u> Digoxin is less effective for rate control and its role should be limited to a possible additional drug for those not controlled with a B-blocker or calcium channel blocker, or for patients with significant left ventricular systolic dysfunction. In patients 65 years of age or older or with one or more risk factors for stroke, the best choice for anticoagulation to prevent thromboembolic disease is warfarin. If rhythm control is successful and sinus rhythm is maintained, the thromboembolic rate is equivalent to that seen with a rate control strategy. Thus, the data suggests that patients managed with a rhythm control strategy should be

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	maintained on anticoagulation regardless of whether they are consistently in sinus
	rhythm.
<b>10-055.</b> +Neu+Cel.* Which one of the following would be most appropriate for stroke prevention in a patient with hypertension, diabetes mellitus, and atrial	Atrial fibrillation. <b>10-055.* Stroke, risk;</b> atrial fibrillation. <b>ANS=D</b> . The CHADS2 score is a validated clinical prediction rule for determining the risk of tracks and when should be particulated. Distance and when the standard set of the sta
fibrillation?	stroke and who should be anticoagulated. Points are assigned based on the
A) Clopidogrel (Plavix) B) Aspirin	patient's comorbidities. <u>One point is given for each of the following: history of</u> <u>congestive heart failure (C), hypertension (H), age <math>\geq</math>75 (A), and diabetes 2</u>
C) Dipyridamole (Persantine)	mellitus (D). Two points are assigned for a previous stroke or TIA (S). For
D) Warfarin (Coumadin)	patients with a score of 0 or 1, the risk of stroke is low and warfarin would not be
E) Enoxaparin (Lovenox)	recommended. Warfarin is the agent of choice for the prevention of stroke in
	<b>patients with atrial fibrillation and a score</b> $\geq 2$ . In these patients, the risk of
	stroke is higher than the risks associated with taking warfarin. Enoxaparin is an
	expensive injectable anticoagulant and is not indicated for the long-term prevention of stroke.
07-181. +Nep+Adm. A 76-year-old female is hospitalized for fever and weakness	Bacteremia. 07-181. Staphylococcus aureus is an unusual genitourinary pathogen;
of several days' duration. Her history and physical findings are otherwise	when found in the urine, it should be assumed to have migrated from a primary
unremarkable except for a temperature of 37.1 deg C (100.2 deg F), a pulse rate of	location. ANS=B. The patient should be examined carefully for a portal of entry
100 beats/min, and a blood pressure of 95/55 mm Hg. A urinalysis reveals 10-15	such as a skin ulcer, intravenous site, or area of dermatitis. An echocardiogram is
WBCs/hpf and a urine culture reveals methicillin-sensitive <i>Staphylococcus</i>	often required to rule out endocarditis. Methicillin-sensitive S. aureus can be
<i>aureus</i> . The most appropriate action at this point is to A) reculture the urine, as the	treated with a penicillinase-resistant penicillin or a first-generation cephalosporin.
bacteria on the first urine culture is most likely a skin contaminant B) obtain a	Vancomycin should be reserved for treating methicillin-resistant <i>S.aureus</i> .
blood culture and examine the patient for a portal of entry C) obtain a blood	Although oral cephalexin can be used to treat methicillin-sensitive <i>S. aureus</i> , this
culture and start the patient on intravenous vancomycin (Vancocin) D) start the	particular patient is too ill and needs to be evaluated for bacteremia.
patient on oral cephalexin (Keflex) <b>08-178.</b> +Gas+Adm. A 70-year-old female with type 2 diabetes mellitus is	Bacteremia. 08-178. Streptococcus bovis. ANS=E. For unknown reasons,
admitted to the hospital with a 4-week history of fever, anorexia, and weight loss.	Streptococcus bovis bacteremia or endocarditis is associated with a high
Two blood cultures are positive for <i>Streptococcus bovis</i> . In addition to being	incidence of occult colorectal malignancies. It may also occur with upper
treated for the infection, she should be evaluated for which one of the following?	gastrointestinal cancers. Radiography or endoscopy is indicated.
A) B-cell lymphoma	
B) T-cell lymphoma	
C) Multiple myeloma	
D) Lung cancer	
E) Colorectal cancer	
<b>08-141.</b> +Ref+Cfp. The most common cause of abnormal vaginal discharge in a	Bacterial vaginosis. 08-141. Bacterial vaginosis is the most common cause of
sexually active 19-year-old female is	acute vaginitis, accounting for up to 50% of cases in some populations. ANS=E. It
A) Candida albicans	is usually caused by a shift in normal vaginal flora. Mixed vaginal flora is
B) Trichomonas vaginalis	considerably more common as a cause of vaginal discharge than <i>C. albicans</i> and
C) Staphylococcus	T. vaginalis.
D) group B <i>Streptococcus</i> E) mixed vaginal flora	<u>Uptodate:</u> TREATMENT OF NONPREGNANT WOMEN: Metronidazole — Metronidazole is the most successful therapy. Most comparative studies using
E) mixed vaginar nora	multiple divided-dose oral regimens for one week achieved early rates of clinical
	cure in excess of 90 percent, and cure rates (by Amsel criteria) of approximately
	80 percent at four weeks.
	Treatment in pregnancy: Symptomatic BV infection — All women with
	symptomatic BV should be treated to relieve bothersome symptoms. Oral
	treatment is effective and has not been associated with adverse fetal or obstetrical
	effects [104-109]. The therapeutic options include [58]: Metronidazole 500 mg
	orally twice daily for seven days. OR Metronidazole 250 mg orally three times
	daily for seven days OR <u>Clindamycin</u> 300 mg orally twice daily for seven days.
	Some clinicians avoid use of metronidazole in the first trimester because it crosses
	the placenta, and thus has a potential for teratogenicity.
<b>07-016.</b> +Non+Adm. A 42-year-old white male who has been obese for many	Bariatric surgery. 07-016. pulmonary embolism. ANS=B. According to the
years seeks your advice about bariatric surgery. He has controlled hypertension	International Bariatric Surgery Registry, the leading cause of death following
and his body mass index (BMI) is 46 kg/m2. Which one of the following would	surgery is pulmonary embolism. Indications for bariatric surgery include a
you tell him is the leading cause of death from this surgery? A) Infection B)	BMI of 40 kg/m2 or higher, or a BMI of 35 kg/m2 with serious comorbid
Pulmonary embolism C) Ischemic bowel D) Malabsorption E) Myocardial	factors such as diabetes mellitus, obstructive sleep apnea, or coronary artery
infarction 08-067. +Res+Csp. Which one of the following is the leading cause of death	disease. Bariatric surgery. 08-067. Pulmonary embolism. ANS=A. Pulmonary emboli,
following bariatric surgery? A) Pulmonary embolism B) Adult respiratory distress	anastomotic leaks, and respiratory failure are responsible for 80% of deaths
syndrome C) Peritonitis secondary to an anastomotic leak D) Sepsis related to a	in the 30 days following bariatric surgery, with death from pulmonary
wound infection E) Hemorrhage from an anastomotic ulcer	embolism being the most frequent cause. Wound infections and marginal ulcers
_,, _,	are not uncommon complications of this type of surgery.
<b>10-240.</b> +Int+Adm.>L* At a routine annual visit, a 31-year-old inner-city	Beau's lines. <b>10-240.</b> Fingernails and toenails are often overlooked as clues to
elementary school teacher asks you about a lesion on the nail of her ring finger,	systemic illness. ANS=E. Like hair shafts, they document a history of the body
shown in <b>Figure 8</b> . On examination, you note that her other nails all have a slight	during the past several months. The symmetric depression across the nail plate
linear depression or groove. Which one of the following is the most likely cause	growing toward the distal edge of the nail shown here represents significant
of this problem?	trauma to the body some weeks ago. These classic lines are called Beau's lines.
A) A paronychial fungal infection	No treatment is required.
B) Psoriasis	Atlas of clinical Diagnosis, 2 <sup>nd</sup> Edition:
C) Iron deficiency	Transverse sulci, or Beau's lines, affecting the surface of all the nails at
D) Lead exposure	corresponding levels represent a transient arrest of nail growth caused by an
E) A traumatic/metabolic event	illness. As the growth rate is around O.lmm a day, it is possible to estimate
	I the enpressments time at the provide illness that has marked the pails (5
	<b>the approximate time of the previous illness that has marked the nails</b> (5 months in 10.79).

## Mario's ITE database V2010.007

# Document copy for the sole personal use of Dr. Mario Alberto Jimenez

		Document copy	
<b>08-146.</b> +Pbc+Cel. Which o pain in the elderly?	one of the following should be avoided when treating		S=C. According to the Beers criteria, a list of drugs that d in older adults, meperidine should not be used in the
A) Fentanyl (Sublimaze)		elderly because its metabol	ite can accumulate and cause seizures. The other
B) Hydrocodone C) Meperidine (Demerol)		medications are not listed in elderly.	n the Beers criteria and are not contraindicated in the
D) Morphine			summary of information from the following report in
E) Oxycodone (OxyContin	)	Archives of Internal Medica	
		Α	I
D	oxazepam (Serax)	alprazolam (Xanax)	<u>indomethacin</u> (Indocin, Indocin SR)
D dessicated thyroid	oxybutynin (Ditropan)	amiodarone (Cordarone)	isoxsuprine (Vasodilan)
dexchlorpheniramine		amitriptyline (Elavil)	K
(Polaramine)	Р	amphetamines	ketorolac (Toradol)
diazepam (Valium)	pentazocine (Talwin)	anorexic agents	L
dicyclomine (Bentyl)	perphenazine-amitriptyline	B	lorazepam (Ativan)
	(Triavil)	barbiturates	M
<u>digoxin</u> (Lanoxin) <u>diphenhydramine</u> (Benadryl)	piroxicam (Feldene) promethazine (Phenergan)	<u>belladonna alkaloids</u> (Donnatal)	meperidine (Demerol)
dipyridamole (Persantine)	propantheline (Pro-Banthine)	<u>bisacodyl</u> (Dulcolax)	<u>meprobamate</u> (Miltown, Equanil)
disopyramide (Norpace,	propoxyphene (Darvon) and	С	mesoridazine (Serintil)
Norpace CR) <u>doxazosin</u> (Cardura)	combination products Q	carisoprodol (Soma)	metaxalone (Skelaxin)
doxepin (Sinequan)	quazepam (Doral)	cascara sagrada	methocarbamol (Robaxin)
E	R	chlordiazepoxide (Librium, Mitran)	methyldopa (Aldomet)
ergot mesyloids (Hydergine) estrogens	reserpine (Serpalan, Serpasil) T	<u>chlordiazepoxide-</u> <u>amitriptyline</u> (Limbitrol)	<u>methyldopa-</u> <u>hydrochlorothiazide</u> (Aldoril)
ethacrynic acid (Edecrin)	temazepam (Restoril)	chlorpheniramine (Chlor-	methyltestosterone (Android,
F	thioridazine (Mellaril)	Trimeton)	Virilon, Testrad)
ferrous sulfate (iron)	ticlopidine (Ticlid)	chlorpropamide (Diabinese)	mineral oil
fluoxetine (Prozac)	triazolam (Halcion)	chlorzoxazone (Paraflex)	N
flurazepam (Dalmane)	trimethobenzamide (Tigan)	cimetidine (Tagamet)	naproxen (Naprosyn, Avaprox, Aleve)
G guanadrel (Hylorel)	tripelennamine	<u>clidinium-chlordiazepoxide</u> (Librax)	Neoloid
guanethidine (Ismelin)	[End of list.]	clonidine (Catapres)	nifedipine (Procardia, Adalat)
Н		clorazepate (Tranxene)	nitrofurantoin (Macrodantin)
halazepam (Paxipam)		cyclandelate (Cyclospasmol)	0
hydroxyzine (Vistaril, Atarax)		cyclobenzaprine (Flexeril)	orphenadrine (Norflex)
hyoscyamine (Levsin,	hyoscyamine (Levsin, Levsinex)		oxaprozin (Daypro)
07-154. +Neu+Adm. A 53- progressive facial weakness pain behind the left ear and in good health and had his normal. His lipid levels, ch- been involved in any outdo sexual behavior. On examin flattening of the left nasolal mouth appears to be drawn		nerves is called Bell's palsy be genetic, metabolic, autoi reasonable evidence indicat herpes simplex virus, result may be viral (herpes simple coxsackievirus, polio, Epst Lyme disease, syphilis, lept higher than that of nonpreg infectious demyelination ar and hypothyroidism may be The key diagnostic point is	e partial or complete paralysis of the peripheral facial y. <b>ANS=E.</b> The etiology is still unknown, but it could immune, vascular, entrapment, or infectious. There is ting that the condition may be due to reactivation of ting in a viral-induced neuritis. Associated infections ex, herpes zoster, HIV, mumps, adenovirus, ein-Barr virus, influenza) or bacterial (otitis media, rosy). Women who are pregnant have a risk three times nant women. Sarcoidosis, multiple sclerosis, and post- re other possibilities. Hypertension, diabetes mellitus, e risk factors, but are probably not etiologic agents. determining the time of onset. If the onset occurs over paralysis is reached in 3 weeks or less, it is likely a

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
C) MRI with gadolinium enhancement D) Aspirin and observation E) Prednisone and valacyclovir (Valtrex)	Bell's palsy. A prolonged, slowly progressive, or relapsing course suggests tumor, especially if there is no recovery. Examination for middle ear disease and checking for parotid masses should be part of the evaluation. Tests may be necessary if the etiologies noted above have been ruled out. There is <u>some</u> evidence to show that treatment with prednisone and an antiviral agent such as valacyclovir is beneficial.
<b>09-122.</b> +Rem+Adm. During a comprehensive health evaluation a 65-year-old African-American male reports mild, very tolerable symptoms of benign prostatic hyperplasia, rated as a score of 7 on the American Urological Association Symptom Index. He has never smoked, and his medical history is otherwise unremarkable. Objective findings include an enlarged prostate that is firm and nontender, with no nodules. A urinalysis is normal and his prostate-specific antigen level is 1.8 ng/mL. Based on current evidence, which one of the following treatment options is most appropriate at this time? A) Observation, with repeat evaluation in 1 year B) Saw palmetto C) An alpha-receptor antagonist D) A 5-a-reductase inhibitor E) Urologic referral for transurethral resection of the prostate	Benign prostatic hyperplasia (BPH). <b>09-122. ANS=A.</b> Watchful waiting with annual follow-up is appropriate for men with mild benign prostatic hyperplasia (BPH). Prostate-specific antigen (PSA) levels correlate with prostate volume, which may affect the treatment of choice, if indicated (SOR C). <u>PSA levels &gt;2.0</u> <u>ng/mL for men in their 60s correlate with a prostatic volume &gt;40 mL</u> . This patient's PSA falls below this level. <u>In men with a prostatic volume &gt;40 mL</u> , <u>5-</u> <u>a-reductase inhibitors should be considered for treatment</u> (SOR A). <u>alpha- Blockers provide symptomatic relief in men whose disease has progressed to the point that they have moderate to severe BPH symptoms</u> (SOR A). A recent high-quality, randomized, controlled trial found <u>no benefit from saw palmetto</u> with regard to symptom relief or urinary flow after 1 year of therapy. The American Urological Association does not recommend the use of phytotherapy for BPH. Surgical consultation is appropriate when medical therapy fails or the patient develops refractory urinary retention, persistent hematuria, or bladder stones.
<b>07-003.</b> +Pbs+Com. The specificity of a screening test is best described as the proportion of persons A) with the condition who test positive B) with the condition who test negative C) with the condition who test positive, compared to the total number screened D) without the condition who test positive E) without the condition who test negative	Biostatistics. <b>07-003.</b> Specificity. <b>ANS=E.</b> A screening test's specificity is the proportion of persons <i>without</i> the condition who test negative for that condition. In other words, it is a measure of the test's ability to properly identify those who do not have the disease. Conversely, the sensitivity of a screening test is the proportion of those <i>with</i> the condition who test positive. The other options listed describe false-negatives, false-positives, and prevalence.
<b>07-141.</b> +Pbs+Com. Results of a clinical study show a relative risk reduction (RRR) of 33% and an absolute risk reduction (ARR) of 20%. There are 1000 patients each in the treatment and control groups. To help determine the potential benefit of the treatment it is necessary to identify the number needed to treat (NNT). Which one of the following is the NNT for this clinical study? A) 3 B) 5 C) 13 D) 130 E) The number cannot be determined from the information provided	Biostatistics. <b>07-141.</b> Number needed to treat (NNT). <b>ANS=B.</b> To a practicing physician, the number needed to treat (NNT) is one of the most useful calculations for assessing the benefit of a treatment. Simplified, the NNT is the number of patients necessary to treat in order for one patient to benefit. The relative risk reduction (RRR), often quoted in the press or by those promoting a treatment, can be misleading to both the general public and to physicians. Much more useful is the absolute risk reduction (ARR); NNT is the mathematical reciprocal of ARR (i.e., 1/ARR).
<ul> <li>08-044. +Pbs+Com. In a study to evaluate a test as a screen for the presence of a disease, 235 of the 250 people with the disease had a positive test and 600 of the 680 people without the disease had a negative test. Based on this data, the specificity of the test for the disease is <ul> <li>A) 235/250 = 94%</li> <li>B) 15/250 = 6%</li> <li>C) 600/680 = 88%</li> <li>D) 80/680 = 12%</li> <li>E) 15/80 = 19%</li> </ul> </li> </ul>	Biostatistics. <b>08-044.</b> Specificity. <b>ANS=C.</b> The specificity of a test for a disease is the proportion or percentage of those without the disease who have a negative test. In this case, option A is the sensitivity, i.e., the proportion of those with the disease who have a positive test. Option B is the false-negative rate and option D is the false-positive rate. Option E is the ratio of false-negative tests to false-positive tests, a meaningless ratio. The predictive values of positive and negative tests are extremely important characteristics of a screening test. Determination of these values requires knowledge of the prevalence of the disease in the population screened, as well as the sensitivity, specificity, and false-positive test) is relatively low, even when sensitivity and specificity are high. When prevalence is low, however, the predictive value of a negative test is very high and may approach 100%.
<ul> <li>08-111. +Pbs+Com. Which one of the following best defines the sensitivity of a diagnostic test for a particular disease?</li> <li>A) The test's accuracy in correctly identifying patients without the disease</li> <li>B) The test's accuracy in correctly identifying patients with the disease</li> <li>C) The difference between the false-positive and false-negative rates</li> <li>D) A value calculated from the test's specificity</li> </ul>	Biostatistics. <b>08-111.</b> Sensitivity is the ability of a test to identify patients who actually have the disease, or the true-positive rate. <b>ANS=B.</b> Independent of the sensitivity is the test's specificity, which is the ability to correctly identify patients who do not have the disease, or the true-negative rate. The greater the test's specificity, the lower the false-positive rate; the greater the test's sensitivity, the lower the false-negative rate.
<ul> <li>09-008. +Pbc+Com. In the development of clinical guidelines, which one of the following is rated as the strongest and highest-quality evidence?</li> <li>A) Evidence from randomized, placebo-controlled studies</li> <li>B) Evidence from nonrandomized, double-blind, placebo-controlled studies</li> <li>C) Evidence from nonrandomized, double-blind, crossover, placebo-washout-controlled studies</li> <li>D) Evidence obtained from well-designed cohort or case-control analytical studies from more than one center or research group</li> <li>E) Evidence based on reports of expert committees or opinions of respected authorities in the appropriate specialty area</li> </ul>	Biostatistics. <b>09-008.</b> Randomized, controlled studies yield stronger evidence than other types of studies, especially case-control or cohort studies, because randomization provides the greatest safeguard against unanticipated study bias. <b>ANS: A.</b> Evidence obtained from randomized, controlled studies is considered level 1 (strongest) by the U.S. Preventive Services Task Force. Evidence obtained from nonrandomized, controlled studies is considered level 2a; well-designed case-control and cohort studies are considered level 2b; and reports of expert committees or respected authorities are considered level 3 (weakest).
<b>09-039.</b> +Pbc+Com. A new drug treatment is shown to reduce the incidence of a complication of a disease by 50%. If the usual incidence of this complication were 1% per year, how many patients with this disease would have to be treated with this medication for 1 year to prevent one occurrence of this complication? A) 20 B) 50 C) 100 D) 200 E) 500	<i>Biostatistics.</i> <b>09-039.</b> <i>Number needed to treat (NNT).</i> Considering relative risk reduction without also considering the absolute rate can distort the importance of a therapy. A useful way to assess the importance of a therapy is to determine the <i>NNT</i> to benefit one patient. To calculate this number, <b>the percentage of absolute risk reduction of a particular therapy is divided into 100.</b> In the case in question, the absolute risk reduction is 0.5% (0.5×.01), i.e. 50% of 1% or half of 1% which is .5%. Thus, the number-needed-to-treat for the example cited is 200 (100/0.5).
<b>09-108.</b> +Pbs+Com. A study finds that the positive predictive value of a new test for breast cancer is 75%, which means A) if 100 patients with known breast cancer have the test, 75 (75%) will have a positive test result B) if 100 patients Copyrighted Material. ITE Personal Notes. Not for Sale. Page 19 of 170	<i>Biostatistics.</i> <b>09-108.</b> <i>Positive predictive value</i> refers to the percentage of patients with a positive test for a disease who actually have the disease. <b>ANS=C.</b> The <i>negative predictive value</i> of a test is the proportion of patients with negative test Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Document copy for the sole personal use of Dr. Mario Alberto Jimenez
results who do not have the disorder. The percentage of patients with a disorder who have a positive test for that disorder is a test's <i>sensitivity</i> . The percentage of patients without a disorder who have a negative test for that disorder is a test's <i>specificity</i> . Biostatistics. <b>09-120.</b> <i>Lead-time bias</i> is when a screening test identifies a cancer
Biostatistics. <b>09-120</b> . Lead-time blas is when a screening test identifies a cancer earlier, thereby increasing the time between diagnosis and death without actually prolonging life. <b>ANS=B</b> . Length-time bias is when a screening test finds a disproportionate number of cases of slowly progressive disease and misses the aggressive cases, thereby leading to an overestimate of the effectiveness of the screening. A false-positive test is one that suggests cancer when no cancer exists. The positive predictive value is the proportion of positive test results that are true positives. Attributable risk is the amount of difference in risk for a disease that can
be accounted for by a specific risk factor. Biostatistics. <b>10-099.</b> Likelihood ratio. <b>ANS=A.</b> There has been a large increase in the number of diagnostic tests available over the past 20 years. Although tests may aid in supporting or excluding a diagnosis, they are associated with expense and the potential for harm. In addition, the characteristics of a particular test and how the results will affect management and outcomes must be considered. The statistics that are clinically useful for evaluating diagnostic tests include the positive predictive value, negative predictive value, and likelihood ratios. Likelihood of disease. Ratios greater than 5–10 greatly increase the likelihood of disease. Ratios greater than 5–10 greatly increase the likelihood of disease. Batios greater than 5–10 greatly increase the likelihood of disease. and those less than 0.1–0.2 greatly decrease it. In the example given, if the patient's endometrial stripe is >25 mm, the likelihood ratio is 15.2 and her post-test probability of endometrial cancer is 63%. However, if it is ≤4 mm, the likelihood ratio is 0.02 and her post-test probability of endometrial cancer is 0.2%. The number needed to treat is useful for evaluating data regarding treatments, not diagnosis. Prevalence is the existence of a disease in the current population, and incidence describes the occurrence of new cases of disease in a
population over a defined time period. <b>The relative risk is the risk of an event in</b> <b>the experimental group versus the control group in a clinical trial.</b> Biostatistics. <b>10-237.</b> Epidemiologic data. <b>ANS=D.</b> The most efficient method of gathering epidemiologic data is to study a representative sample rather than the entire population subject to the event. The measurements obtained are still affected by sampling variation, however, due to the effect of chance. In the figure shown, only one of the listed conclusions can be inferred: 100% of the sample selected reached menopause by age 60. This does not imply that all women reach menopause by age 60. No conclusions regarding the plausible causes of menopause, surgical or hormonal, are valid on the basis of this graph. Although 18 years is the earliest age of menopause represented on this particular graph, a comparative conclusion cannot be drawn in the absence of corresponding comparative data. This graph illustrates a skewed, or asymmetric, distribution. Therefore, the mean (arithmetic average) age of menopause is different from the median age or middle value in the sequence from highest to lowest. Whereas the median age of menopause is approximately 50, the mean age is closer to 45, due to the skewing effect of the younger age groups represented.
Bipolar. 07-078. Bipolar II disorder, hypomania. ANS=B. This patient's symptoms are most consistent with bipolar II disorder/ hypomania. According to the DSM-IV, bipolar II disorder is characterized by one or more major depressive episodes accompanied by at least one hypomanic episode. <u>Hypomanic episodes consist of an elevated mood, often with expansive or</u> irritable qualities. Patients with hypomania feel like they have abundant energy and often speak rapidly or interrupt others repeatedly. They usually are convinced of their own talent and often have intense religious and/or sexual interests. They usually have a decreased need for sleep, spend money beyond their means, and take unnecessary risks. Their intense social interest may cause them to call friends at inappropriate times, especially late at night. A diagnosis of bipolar II disorder requires a history of depression and a hypomanic state at some time in the past that caused impaired relationships or function and that is not explained by a medical condition, drugs, or other psychiatric diagnosis (i.e., schizophrenia). However, if symptoms have ever been fully manic, the diagnosis would be bipolar I disorder. Symptoms of attention deficit disorder (ADD) persist into adulthood in up to 50% of children diagnosed with ADD, and can be similar to those in this patient. There is insufficient information from his history regarding childhood symptomatology to support a diagnosis of ADHD.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	Although the patient notes irritability and restlessness, he does not report excessive anxiety and worry, which are the central symptoms of generalized anxiety disorder. <b>Borderline personality disorder is characterized by a similar</b> <b>pattern of marked impulsivity and poor social boundaries. However, it is</b> <b>diagnosed primarily in women (75%)</b> , and this patient apparently has been able to maintain a stable marital relationship up to this point, which would be unusual.
<b>07-126.</b> +Psy+Mhe. A 30-year-old female presents with a complaint of years of recurrent insomnia. She often lies awake with her mind "racing," so she uses alcohol nightly to help her fall asleep. She also has trouble focusing at work. She has been treated for depression several times since age 22, but she does not improve with antidepressant therapy. She has no family history of psychiatric disorders. Which one of the following statements is true regarding this patient? A) She most likely suffers from obstructive sleep apnea B) Although she does not have a family history of bipolar disorder, her presentation is compatible with hypomania C) She should begin taking venlafaxine (Effexor) to treat her depression D) Once her sleep issues are addressed, stimulant therapy for attention-deficit disorder should be considered	Bipolar. <b>07-126.</b> Bipolar II disorder, hypomania. <b>07-126. ANS=B.</b> This patient has many features of bipolar II disorder, which is defined as hypomania plus at least one episode of depression. While the patient does not have a family history suggestive of bipolar disorder (which is highly heritable), his insomnia, racing thoughts, and trouble focusing are compatible with hypomania. Unresponsiveness or worsening with antidepressant treatment also suggests bipolar disorder; therefore, trying another antidepressant without a concomitant mood stabilizer is inappropriate. Stimulant therapy also is inappropriate, at least until the mania is controlled, especially with a history of alcohol misuse. This patient has many psychiatric clues that make obstructive sleep apnea unlikely.
<ul> <li>07-226. +Psy+Adm. A 62-year-old male recently moved and presents to your office for an initial examination. He has bipolar disorder that has been treated with lithium for many years. Which one of the following should be monitored at regular intervals in patients taking lithium?</li> <li>A) Adrenal and thyroid function</li> <li>B) Liver and adrenal function</li> <li>C) Liver and thyroid function</li> <li>D) Renal and thyroid function</li> <li>E) Renal and liver function</li> </ul>	Bipolar. 07-226. lithium use. ANS=D. Lithium is a mood-stabilizing agent that is used to treat acute manic episodes of bipolar disorder. Long-term complications include the potential for renal impairment and hypothyroidism. It is recommended that renal function be tested every 2–3 months for 6 months and every 6–12 months thereafter. Thyroid function should be evaluated once or twice during the first 6 months of treatment and every 6–12 months thereafter.
<ul> <li>09-127. +Res+Adm. An anxious 30-year-old white female comes to the emergency department with shortness of breath, circumoral paresthesia, and carpopedal spasms. Which one of the following sets of blood gas values is most consistent with this clinical picture?</li> <li>A) pH 7.25 (N 7.35–7.45), pCO2 25 mm Hg (N 35–45), pO2 100 mm Hg (N 80–100)</li> <li>B) pH 7.25, pCO2 50 mm Hg, pO2 80 mm Hg</li> <li>C) pH 7.50, pCO2 25 mm Hg, pO2 100 mm Hg</li> <li>D) pH 7.55, pCO2 50 mm Hg, pO2 80 mm Hg</li> </ul>	Blood gases. <b>ANS=C.</b> Anxiety, shortness of breath, paresthesia, and carpopedal spasm are characteristic of psychogenic hyperventilation. <u>Respiratory alkalosis</u> <u>secondary to hyperventilation is diagnosed when arterial pH is elevated and pCO2 is depressed</u> . Low pH is characteristic of acidosis, either respiratory or metabolic, and <u>elevated pH with elevated pCO2 is characteristic of metabolic alkalosis with respiratory compensation</u> .
<b>10-052.</b> +Gas+Adm. An 82-year-old male nursing-home resident is sent to the emergency department with lower abdominal pain and bloody diarrhea. He has a history of multi-infarct dementia, hypertension, and hyperlipidemia. On examination he is afebrile, and a nasogastric aspirate is negative for evidence of bleeding. Which one of the following is the most likely cause of this patient's bleeding? A) Peptic ulcer disease	Blood in stool. <b>10-052.</b> Ischemic colitis. <b>ANS=B.</b> This patient most likely has ischemic colitis, given the abdominal pain, bloody diarrhea, and cardiovascular risks. Peptic ulcer disease is unlikely because the nasogastric aspirate was negative. Diverticular bleeding and angiodysplasia are painless. Infectious colitis is associated with fever.
<ul><li>B) Ischemic colitis</li><li>C) Diverticular bleeding</li><li>D) Angiodysplasia</li><li>E) Infectious colitis</li></ul>	
<ul> <li>10-202. +Gas+Adm.* A 70-year-old Asian male presents with hematochezia. He has stable vital signs. Lower endoscopy is performed, but is unsuccessful due to active bleeding. Which one of the following would be most appropriate at this point?</li> <li>A) Abdominal CT</li> <li>B) A barium enema</li> <li>C) A technetium-99m blood pool scan</li> <li>D) Exploratory laparotomy</li> <li>E) A small-bowel radiograph</li> </ul>	Blood in stool. Hematochezia. <b>10-202. ANS=C.</b> In most patients with heavy gastrointestinal bleeding, localizing the bleeding site, rather than diagnosing the cause of the bleeding, is the most important task. A lower GI series is usually nondiagnostic during heavy, active bleeding. A small-bowel radiograph may be helpful after the active bleeding has stopped, but not during the acute phase of the bleeding. A blood pool scan allows repeated scanning over a prolonged period of time, with the goal of permitting enough accumulation of the isotope to direct the arteriographer to the most likely source of the bleeding. If the scan is negative, arteriography would be unlikely to reveal the active source of bleeding, and is also a more invasive procedure. Exploratory laparotomy may be indicated if a blood pool scan or an arteriogram is nondiagnostic and the patient continues to bleed heavily.
<ul> <li>10-069. +Psy+Mhe. A 25-year-old female comes to your office requesting a referral to an otolaryngologist for surgery on her nose. She states that her nose is too large and that "something must be done." She has already seen multiple family physicians, as well as several otolaryngologists. She is 168 cm (66 in) tall and weighs 64 kg (141 lb). A physical examination is normal, and even though she initially resists a nasal examination, it also is normal. The size of her nose is normal. Which one of the following is the most likely cause of this patient's concern about her nose?</li> <li>A) Obsessive-compulsive disorder</li> <li>B) Anorexia nervosa</li> <li>C) Depression</li> </ul>	Body dysmorphic disorder. <b>10-069.</b> Body dysmorphic disorder is an increasingly recognized somatoform disorder that is clinically distinct from obsessive- compulsive disorder, eating disorders, and depression. <b>ANS=D.</b> Patients have a preoccupation with imagined defects in appearance, which causes emotional stress. Body dysmorphic disorder may coexist with anorexia nervosa, atypical depression, obsessive-compulsive disorder, and social anxiety. Cosmetic surgery is often sought. SSRIs and behavior modification may help, but cosmetic procedures are rarely helpful.
D) Body dysmorphic disorder <b>08-062.</b> +Res+Adm. A 32-year-old white male teacher is seen for a paroxysmal cough of 5 days' duration. He tells you that a student in his class was diagnosed with pertussis 3 weeks ago. Which one of the following would be the best treatment? A) Amoxicillin B) Azithromycin (Zithromax) C) Cephalexin (Keflex) D) Ciprofloxacin (Cipro) E) Doxycycline	<i>Bordetella pertussis.</i> <b>08-062. ANS=B.</b> Macrolides are considered first-line therapy for <i>Bordetella pertussis</i> infection. Trimethoprim/sulfamethoxazole is considered second-line therapy.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 21 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul><li>10-011. +Res+Cca. Which one of the following is an appropriate rationale for antibiotic treatment of <i>Bordetella pertussis</i> infections?</li><li>A) It delays progression from the catarrhal stage to the paroxysmal stage</li></ul>	<i>Bordetella pertussis</i> . <b>10-011. ANS=D.</b> Antibiotic treatment for pertussis is effective for eradicating bacterial infection but not for reducing the duration or severity of the disease. The eradication of infection is important for disease
B) It reduces the severity of symptoms	control because it reduces infectivity. Antibiotic treatment is thought to be most
<ul><li>C) It reduces the duration of illness</li><li>D) It reduces the risk of transmission to others</li><li>E) It reduces the need for hospitalization</li></ul>	effective if started early in the course of the illness, characterized as the catarrhal phase. The paroxysmal stage follows the catarrhal phase. The CDC recommends macrolides for primary treatment of pertussis. The preferred antimicrobial
	regimen is azithromycin for 3–5 days or clarithromycin for 7 days. These regimens are as effective as longer therapy with erythromycin and have fewer side effects. Children under 1 month of age should be treated with azithromycin. There is an association between erythromycin and hypertrophic pyloric stenosis in young infants. Trimethoprim/sulfamethoxazole can be used in patients who are unable to take macrolides or where macrolide resistance may be an issue, but should not be used in children under the age of 2 months. Fluoroquinolones have
	been shown to reduce pertussis in vitro but have not been shown to be clinically effective (SOR A).
08-004. +Ref+Cfp. Regular breast self-examinations to screen for breast cancer	Breast cancer. 08-004. Most women do not regularly perform breast self-
A) are performed by most women in the United States	examinations, even though it allows motivated women to be in control of this
B) reduce mortality due to breast cancer	aspect of their health care. ANS=E. Evidence from large, well-designed,
C) reduce all-cause mortality in women	randomized trials of adequate duration has shown that the performance of regular
D) are recommended by the U.S. Preventive Services Task Force	breast self-examinations by trained women does not reduce breast cancer-specific
E) increase the number of breast biopsies performed	mortality or all-cause mortality. The U.S. Preventive Services Task Force found insufficient evidence (an I rating) to recommend breast self-examinations. A
	Cochrane review concluded that breast self-examinations have no beneficial effect and increase the number of biopsies performed.
08-052. +Ref+Cfp. In patients with breast cancer, the most reliable predictor of	Breast cancer. 08-052. The most reliable predictor of survival in breast cancer is
survival is	the stage at the time of diagnosis. ANS=B. Tumor size and lymph node
A) estrogen receptor status	involvement are the main factors to take into account. Other prognostic
B) cancer stage at the time of diagnosis	parameters (tumor grade, histologic type, and lymphatic or blood vessel
C) tumor grade	involvement) have been proposed as important variables, but most microscopic
D) histologic type E) lymphatic or blood vessel involvement	findings other than lymph node involvement correlate poorly with prognosis. Estrogen receptor (ER) status may also predict survival, with ER-positive tumors
E) tymphatic of blood vessel involvement	appearing to be less aggressive than ER-negative tumors.
<b>09-021.</b> +Ref+Cfp. A 45-year-old female with no family history of breast cancer	Breast cancer. 09-021. screening. Breast cancer screening included self-
presents for a routine examination. She has no constitutional symptoms or obvious	examination and clinical examination on a regular basis. However, self-
breast abnormalities, and a clinical breast examination is negative. U.S.	examination has been shown to be potentially harmful because it leads to an
Preventive Services Task Force recommendations advise that until 50 years of age	increase in biopsies but does not decrease mortality; it is therefore no longer
the patient should A) perform monthly breast self-examinations B) have	recommended. Mammography is recommended every 1–2 years in women
mammography every 1–2 years C) have cintimammography every 1–2 years D) have breast ultrasonography annually E) have a breast MRI every 1–2 years	<b>40–50 years old, with digital mammography being more sensitive.</b> Ultrasonography and scintimammography are not recommended for screening, but may be used in the evaluation of a palpable breast lesion. MRI is also not
	recommended as a routine screening tool, but may be appropriate in high-risk
These guidelines differ from those of the American Cancer Society (ACS). <u>The</u> ACS mammogram guidelines call for yearly mammogram screening	women. As of 2011, there are <b>differing mammogram guidelines</b> :
beginning at age 40 for women at average risk of breast cancer. Meantime,	In 2009, the USPSTF — a group of health experts that reviews published
the ACS says the breast self-exam is optional in breast cancer screening.	research and makes recommendations about preventive health care — issued
According to the USPSTF, women who have screening mammograms die of	revised mammogram guidelines. Those guidelines include the following:
breast cancer less frequently than do women who don't get mammograms.	Screening mammograms should be done every two years beginning at age
However, the USPSTF says the benefits of screening mammograms don't	50 for women at average risk of breast cancer.
outweigh the harms for women ages 40 to 49. Potential harms may include false-	Screening mammograms before age 50 should not be done routinely and should
positive results that lead to unneeded breast biopsies and accompanying anxiety and distress.	<ul><li>be based on a woman's values regarding the risks and benefits of mammography.</li><li>Doctors should not teach women to do breast self-exams.</li></ul>
What Mayo Clinic recommends: At Mayo Clinic, the current practice is to	There is insufficient evidence that mammogram screening is effective for
continue to recommend an annual screening mammogram beginning at the age of 40, which aligns with the ACS recommendation.	women age 75 and older, so specific recommendations for this age group were not included.
<b>10-013.</b> +Pbc+Com. >L* Which one of the following is true concerning breast	Breast cancer. 10-013. screening. Breast cancer screening has resulted in an
cancer screening?	increase in the diagnosis of localized disease without a commensurate
A) It is useful for detecting premalignant conditions	decrease in the incidence of more widespread disease (regional and
B) It can predict which of the discovered cancers are indolent, with a low potential for harm	<u>metastatic disease</u> ). ANS=D. Unfortunately, it cannot predict which of the discovered cancers are more aggressive, and cannot accurately detect
for harm C) The decrease in mortality from breast cancer can be attributed almost entirely	premalignant lesions. The decrease in the mortality rate of breast cancer is due
to early detection	both to earlier detection and better follow-up medical care.
D) It has resulted in an increase in the diagnosis of localized disease	
E) It has resulted in a significant decrease in the incidence of regional and	
metastatic disease	
<b>10-143.</b> +Ref+Cel+Cfp.>L* A 67-year-old white female has a DXA scan with a	Breast cancer. <b>10-143.</b> 67 y/o white female with DXA scan T-score of –2.7, and
resulting T-score of -2.7. She has a strong family history of breast cancer. Which	strong family history of breast cancer. Most appropriate treatment for this patient?
one of the following would be the most appropriate treatment for this patient?	Raloxifene is a selective estrogen receptor modulator. While it increases the
<ul><li>A) A bisphosphonate</li><li>B) Raloxifene (Evista)</li></ul>	risk of venous thromboembolism, it is indicated in this patient to decrease the risk of invasive breast cancer (SOR A). ANS=B. Bisphosphonates inhibit
C) Calcitonin nasal spray (Miacalcin)	osteoclastic activity. Zoledronic acid, alendronate, and risedronate decrease both
D) Teriparatide (Forteo)	hip and vertebral fractures, whereas ibandronate decreases fracture risk at the
E) Conjugated estrogens (Premarin)	spine only. Calcitonin nasal spray is an antiresorptive spray that decreases the
	incidence of vertebral compression fractures. Teriparatide is a recombinant human parathyroid hormone with potent bone anabolic activity, effective against
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 22 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	vertebral and nonvertebral fractures. <u>Hormone replacement therapy is</u> recommended for osteoporosis only in women with moderate or severe vasomotor symptoms. The lowest possible dose should be used for the shortest amount of time possible (SOR C).
<ul> <li>10-144. +Ref+Csp.* A 50-year-old white female comes to you because she has found a breast mass. Your examination reveals a firm, fixed, nontender, 2-cm mass. No axillary nodes are palpable, nor is there any nipple discharge. You send her for a mammogram, and fine-needle aspiration is performed to obtain cells for cytologic examination. The mammogram is read as "suspicious" and the fine-needle cytology report reads, "a few benign ductal epithelioid cells and adipose tissue." Which one of the following would be the most appropriate next step?</li> <li>A) A repeat mammogram in 3 months</li> <li>B) Repeat fine-needle aspiration in 3 months</li> <li>C) An excisional biopsy of the mass</li> <li>D) Referral for breast irradiation</li> <li>E) Referral to a surgeon for simple mastectomy</li> </ul>	Breast cancer. <b>10-144.</b> Breast mass. <b>ANS=C.</b> In the ideal setting, the accuracy of fine-needle aspiration may be over 90%. Clinical information is critical for interpreting the results of fine-needle aspiration, especially given the fact that the tissue sample is more limited than with a tissue biopsy. It is crucial to determine whether the findings on fine-needle aspiration explain the clinical findings. Although the report from the mammogram and the biopsy are not ominous in this patient, they do not explain the clinical findings. Immediate repeat fine-needle aspiration or, preferably, a tissue biopsy is indicated. Proceeding directly to therapy, whether surgery or irradiation, is inappropriate because the diagnosis is not clearly established. Likewise, any delay in establishing the diagnosis is not appropriate.
<ul> <li>07-032. +Res+Adm. You see a 55-year-old female for the first time. She has a 2-year history of chronic daily cough; thick, malodorous sputum; and occasional hemoptysis. She has been treated with antibiotics for recurrent respiratory infections, but is frustrated with her continued symptoms. She has never smoked. Her FEV1:FVC ratio is 60% and a CT scan shows bronchial wall thickening and luminal dilation. The most likely diagnosis is</li> <li>A) emphysema</li> <li>B) bronchiectasis</li> <li>C) chronic bronchitis</li> <li>D) bronchiolitis</li> <li>E) asthma</li> </ul>	Bronchiectasis. <b>07-032.</b> Bronchiectasis is an illness of the bronchi and bronchioles involving obstructive and infectious processes that injure airways and cause luminal dilation. <b>ANS=B.</b> In addition to daily viscid, often purulent sputum production with occasional hemoptysis, wheezing and dyspnea occur in 75% of patients. Emphysema and chronic 1 bronchitis, forms of COPD, also cause a decreased FEV :FVC ratio, but the baseline sputum is generally mucoid and luminal dilatation of bronchi is not characteristically present. Bronchiolitis is usually secondary to respiratory syncytial virus infection in young children. Asthma is not characterized by the sputum and CT findings seen in this patient.
<ul> <li>07-069. +Res+Cca. A 20-month-old white female is brought to your office with a 2-day history of poor appetite, fever, and cough. She was born at term, has no history of previous illness, and is up-to-date on her immunizations. On examination she has a low-grade fever, clear rhinorrhea, mild tachypnea with bilateral wheezes and rhonchi, and a pulse oximetry reading of 90%. You send the child to the hospital for laboratory studies, a chest film, and observation. The laboratory reports a positive rapid diagnostic assay for respiratory syncytial virus (RSV) from a nasopharyngeal specimen. Based on the most likely diagnosis, which one of the following treatment options is indicated?</li> <li>A) Amoxicillin</li> <li>B) Methylprednisolone (Medrol)</li> <li>C) Oxygen</li> <li>D) Palivizumab (Synagis)</li> </ul>	Bronchiolitis. <b>07-069.</b> Respiratory syncytial virus (RSV) causes acute respiratory tract illness in patients of all ages. <b>ANS=C.</b> In infants and young children, <b>RSV is the most important cause of bronchiolitis and pneumonia.</b> Rapid diagnostic assays, including immunofluorescent and enzyme immunoassay techniques for detection of viral antigen in nasopharyngeal specimens, are available commercially and are generally reliable. <u>Unless there is evidence of a suppurative complication, such as otitis media, the treatment of RSV bronchiolitis is supportive (e.g., with hydration and supplemental oxygen).</u> It is currently unclear whether there is a direct relationship between RSV bronchiolitis, corticosteroids are not effective and are not indicated. Antimicrobial agents such as amoxicillin are rarely indicated because bacterial lung infection and bacteremia are uncommon in children hospitalized with RSV bronchiolitis. Antimicrobial agents may be indicated with a suppurative complication. <u>Palivizumab, a humanized mouse monoclonal antibody administered inframuscularly, is available to reduce the risk of RSV hospitalization in high-risk children.</u> This medication is not indicated in this case because of a negative past history. <u>It is indicated for prophylaxis only in selected infants and children with chronic lung disease (CLD, formerly called bronchopulmonary dysplasia) of prematurity, a history of preterm birth (&lt;35 weeks gestation), or congenital heart disease. Palivizumab is administered every 30 days, beginning in early November, with 4 subsequent monthly doses.</u>
<ul> <li>07-188. +Res+Cca. An otherwise healthy 1-year-old male is brought to your office because of increased respiratory effort, wheezing, and rhinorrhea. He has no fever. On examination he is found to have an increased respiratory rate and mild retractions. A chest film shows no foreign body or infiltrates. Oxygen saturation is 94%. Management should include which one of the following?</li> <li>A) A trial of nebulized albuterol</li> <li>B) Nebulized epinephrine</li> <li>C) Oxygen</li> <li>D) Antibiotics</li> <li>E) Corticosteroids</li> </ul>	Bronchiolitis. <b>07-188. ANS=A.</b> This presentation is consistent with bronchiolitis, which is a response to a viral respiratory infection. American Academy of Pediatrics guidelines for the management of bronchiolitis do not recommend routine use of any treatment, recommending instead that the choice be based on the specific needs of the child. If the child responds to a trial of albuterol, then treatment can be continued; otherwise, evidence shows no benefit. Antibiotics are indicated for signs of bacterial infection. Oxygen is indicated if the saturation is less than 90%. Corticosteroids have not been shown to be of benefit.
<ul> <li>08-127. +Res+Cca. You see a 9-month-old male with a 1-day history of cough and wheezing. He has previously been healthy and was born after an uncomplicated term pregnancy. He is up to date on his immunizations. On examination his temperature is 38.6°C (101.5°F) and his respiratory rate is 30/min. He has diffuse wheezing and his oxygen saturation on room air is 94%. Because it is midwinter, you obtain a swab for influenza, which is negative. A chest radiograph shows peribronchiolar edema. Appropriate management would include which one of the following?</li> <li>A) Supportive care only</li> <li>B) Inhaled corticosteroids</li> <li>C) Ribavirin (Rebetol)</li> <li>D) Palivizumab (Synagis)</li> <li>E) Supplemental oxygen</li> </ul>	Bronchiolitis. <b>08-127.</b> Respiratory syncytial virus (RSV). This child has a RSV infection. <b>ANS=A.</b> Supportive care is the mainstay of therapy. If the child can take in fluids by mouth and tolerate room air, outpatient management with close physician contact as needed is reasonable, especially in the absence of significant underlying risk factors. <b>Routine use of corticosteroids is not recommended</b> (SOR B). Although up to 60% of infants hospitalized for bronchiolitis receive corticosteroid therapy, studies have not provided sufficient evidence to support their use. Inhaled corticosteroids have not been shown to be beneficial, and the safety of high doses in infants is unclear. Supplemental oxygen should be administered if functional oxygen saturation (SpO2) persistently falls below 90% and can be discontinued when an adequate level returns (SOR C). Antiviral therapy for RSV bronchiolitis is controversial because of its marginal benefit, cumbersome delivery, potential risk to caregivers, and high cost (SOR B). Studies of ribavirin in patients with bronchiolitis have produced inconsistent findings. Palivizumab is a preventive measure, and is not used for treatment of the active disease. It may be considered in select infants and children with

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	prematurity, chronic lung disease of prematurity, or congenital heart disease
	(SOR A). If used, it should be administered intramuscularly in five monthly
<b>09-043.</b> +Res+Cca. A previously healthy 18-month-old male is brought to your office with a 2-day history of cough and fever. On examination the child has a temperature of 38.3°C (100.9°F), a respiratory rate of 30/min, and mild retractions and mild wheezes bilaterally. Oxygen saturation is 90%. The most appropriate initial management would be A) azithromycin (Zithromax) B) a short course of corticosteroids C) aerosolized racemic epinephrine every 4 hours D) postural drainage E) a single treatment with aerosolized albuterol, continued only if there is a positive response	doses of 15 mg/kg, usually beginning in November or December (SOR C). Bronchiolitis. 09-043. ANS=E. Evidence supports <u>a trial of an inhaled</u> bronchodilator, albuterol, or epinephrine, with treatment continued only if the initial dose proves beneficial. There is no evidence to support the use of antibiotics unless another associated infection is present (e.g., otitis media). Neither corticosteroids nor postural drainage has been found to be helpful.
<ul> <li>10-116. +Res+ Cca. A 10-week-old term male infant is brought to your office with a 2-day history of difficulty breathing. He has been healthy since birth, with the exception of a 3-day episode of wheezing and rhinorrhea 3 weeks ago. Your initial examination shows an alert infant with increased work of breathing, rhinorrhea, and wheezing. His oxygen saturation is 93% and his temperature is 38.4°C (101.1°F). Which one of the following would be most appropriate at this point?</li> <li>A) Antigen testing or another rapid assay</li> <li>B) A baseline chest radiograph</li> <li>C) A trial of nebulized albuterol (AccuNeb)</li> <li>D) Advising the parents that the child can safely be returned to day care tomorrow</li> </ul>	Bronchiolitis. <b>10-116. ANS=C.</b> The American Academy of Pediatrics guideline on the diagnosis and management of bronchiolitis recommends against the use of laboratory or radiographic studies to make the diagnosis, although additional testing may be appropriate if there is no improvement. Bronchiolitis can be caused by a number of different viruses, alone or in combination, and the knowledge gained from virologic testing rarely influences management decisions or outcomes for the vast majority of children. While the guideline does not support <i>routine</i> use of bronchodilators in the management of bronchiolitis, it does allow for a trial of bronchodilators as an option in selected cases, and continuation of the treatment if the patient shows objective improvement in respiratory status. Bronchodilators have not been shown to affect the course of bronchiolitis with respect to outcomes. The guideline places considerable emphasis on hygienic practices, including the use of alcohol-based hand sanitizers before and after contact with the patient or inanimate objects in the immediate vicinity. Education of the family about hygienic practices is recommended as well. <b>Returning the child to day care the paty day is potentially harmful</b>
	child to day care the next day is potentially harmful.
<ul> <li>07-083. +Res+Com. Which one of the following is true regarding acute bronchitis?</li> <li>A) The associated cough typically lasts more than 2 weeks</li> <li>B) Fever, tachypnea, and rales are typical of acute bronchitis in young patients</li> <li>C) B-Agonists are indicated for treatment</li> <li>D) Antimicrobial agents are indicated for treatment</li> <li>E) Purulent sputum implies a bacterial etiology</li> </ul>	Bronchitis. <b>07-083. ANS=A.</b> The cough of acute bronchitis typically lasts 2 weeks and frequently up to 20 days. Fever, tachypnea, and rales in young patients are typical of pneumonia, not bronchitis. Both antimicrobials and B-agonists are of questionable benefit in patients with acute bronchitis. Viruses are the most common cause of acute bronchitis, and <b>purulent sputum reflects desquamation</b> <b>of the airway, with the expectorated matter being mostly epithelial cells.</b> <u>Epocrates:</u> Acute illness with cough in a patient without underlying respiratory problems; usually caused by a viral infection. Cough is typically worse at night or with exercise; lasts >2 weeks in 50% and 4 weeks in 25% of patients; may be associated with bronchospasm and/or excessive mucus production. Diagnosis is primarily clinical. Other causes for acute cough such as pneumonia, asthma, or postnasal drip should be ruled out if suspected. Treatment is aimed at symptom reduction until infection is resolved and bronchial damage repaired. Antibiotics have minimal benefit, while cough suppressants or bronchodilators may reduce symptoms in some patients. Complications are rare; the primary complication is a postbronchitis syndrome, which can produce a cough lasting several months. Treatment Options: Acute: without significant wheezing, cough associated with increased activity, or nocturnal cough: observation. Significant wheezing, cough associated with increased activity, or nocturnal cough: short-acting beta-agonist, bronchodilator, antitussives, Pelargonium (Based on a small number of studies conducted in eastern Europe, the biological Pelargonium sidoides has been shown to reduce acute bronchitis symptom duration and intensity. Pelargonium, though, comes in a variety of formulations and is not widely available outside eastern Europe at this time). Ongoing: cough persists beyond 4 week: short-acting beta-agonist, bronchodilator. Continued cough not responding to symptomatic care and producing purulent sputum: antibiotics.
<b>07-198.</b> +Res+Adm. The most common cause of hemoptysis seen in the primary care setting is A) pulmonary embolism B) lower respiratory tract infection C) lung cancer D) heart failure E) asthma	Bronchitis. 07-198. Hemoptysis. Infection of the lower respiratory tract causes well over half of all cases of hemoptysis, with <u>bronchitis implicated more</u> often than pneumonia. ANS=B. Lung cancer should always be considered, as it may account for up to a quarter of hemoptysis cases. Pulmonary embolism is a much less common cause.
<ul> <li>10-220. +Psy+Mhe. A 19-year-old college student comes to your office with her mother. The mother reports that her daughter has frequently been observed engaging in binge eating followed by induced vomiting. She has also admitted to using laxatives to prevent weight gain. Which one of the following laboratory abnormalities is most likely to be found in this patient?</li> <li>A) Hypokalemia</li> <li>B) Hypoglycemia</li> <li>C) Hyponatremia</li> <li>D) Hypercalcemia</li> <li>E) Hypermagnesemia</li> </ul>	Bulimia. <b>ANS=A.</b> The patient described is likely suffering from bulimia. These patients use vomiting, laxatives, or diuretics to prevent weight gain after binge eating. This often causes a loss of potassium, leading to weakness, cardiac arrhythmias, and respiratory difficulty. The levels of other electrolytes are not as dramatically affected.
<ul><li>09-071. +Pbs+Mhe. The best available evidence supports which one of the following guidelines for discussing serious illnesses?</li><li>A) Physicians should delay having a detailed discussion with the patient about the expected prognosis of cancer until staging is completed</li></ul>	Cancer prognosis guidelines. <b>ANS=A.</b> It is best to discuss prognosis after accurate cancer staging, when specific details about survival rates will give a much clearer and more accurate picture. After assessing the patient's readiness to receive prognostic information, the physician should focus on communicating an accurate
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 24 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
B) For patients who are ambivalent about knowing their prognosis, the discussion should focus on optimal potential outcomes and providing hope, even if this is	prognosis without giving a false sense of hope. Using simultaneous-care models, physicians can provide palliative and curative care at the same time. Physicians
unrealistic	should initiate a discussion about the availability of coordinated, symptomdirected
C) Physicians should delay discussions about palliative care until curative	services such as palliative care early in the disease process; as the disease
measures have failed	progresses, patients should transition from curative to palliative therapy. How
D) Physicians should respect the family's wishes regarding how much	much information to share with the patient depends on the physician's assessment
information to share with the patient	of the patient's level of understanding about the disease and how much patients
10 202 Mary Errs 9* A matient and and the mith and and and an and a	themselves want to know.
<b>10-203.</b> +Non+Euc. <b>?*</b> A patient presenting with severe carbon monoxide poisoning should be treated with A) inhaled helium B) supplemental oxygen	Carbon monoxide poisoning. <b>ANS=B.</b> Patients with carbon monoxide poisoning should be treated immediately with normobaric oxygen, which speeds up the
C) intravenous calcium gluconate D) intravenous iron E) intravenous magnesium	excretion of carbon monoxide.
<b>10-082.</b> +Non+Csp.>L* A 72-year-old female sees you for properative	Cataract surgery, preoperative testing. <b>ANS=E.</b> According to a recent Cochrane
evaluation prior to cataract surgery. Her history and physical examination are	review, routine preoperative testing prior to cataract surgery does not
unremarkable, and she has no medical problems other than bilateral cataracts.	decrease intraoperative or postoperative complications (SOR A). The
Which one of the following is recommended prior to surgery in this patient?	American Heart Association recommends against routine preoperative testing in
A) An EKG only	asymptomatic patients undergoing low-risk procedures, since the cardiac risk
<ul><li>B) An EKG and chest radiography</li><li>C) A CBC only</li></ul>	associated with such procedures is less than 1%.
D) A CBC and serum electrolytes	
E) No testing	
07-149. +Hem+Com. A CBC obtained as part of a life insurance examination of a	CBC findings. 07-149. Clumped platelets usually are an artifact secondary to
healthy 33-year-old African-American male reveals "clumped platelets." Which	antibodies to the anticoagulant used to obtain blood for a CBC. ANS=A. An
one of the following should you do next?	alternative anticoagulant, usually citrate, should be used, and the test repeated to
A) Repeat the platelet count using a specimen collection tube with an alternative	determine an accurate count before undertaking any additional measures.
anticoagulant B) Refer the patient to a hematologist for bone marrow evaluation	
C) Hospitalize the patient for aggressive antiplatelet therapy and parenteral	
anticoagulation	
D) Treat the result as a laboratory error and take no further action	
<b>08-063.</b> +Pbc+Cca. In the United States the most common form of child abuse is	Child abuse. 08-063. ANS=D. Neglect is the most common form of child abuse
A) physical abuse B) emotional abuse C) sexual abuse D) child neglect	(60% of cases) and is the most common cause of death in abused children. It is
	defined by the Office on Child Abuse and Neglect as failure to provide for a
<b>09-018.</b> +Pbs+Com. A 4-year-old male is brought to your office for evaluation of	child's basic physical, emotional, educational/cognitive, or medical needs. Child abuse. <b>09-018.</b> Coin rubbing is a traditional healing custom practiced
fever, coryza, and cough. On examination, the child appears mildly ill but in no	primarily in east Asian countries such as Cambodia, Korea, China, and Vietnam.
respiratory distress. His temperature is $37.4^{\circ}$ C (99.3°F) and other vital signs are	<b>ANS: B.</b> The belief is that one's illness must be drawn out of the body, and the
within the normal range. An HEENT examination is significant only for light	red marks produced by rubbing the skin with a coin are evidence of the body's
yellow rhinorrhea and reddened nasal mucous membranes. Lung auscultation	"release" of the illness. These marks may be confused with abuse, trauma from
reveals good air flow with a few coarse upper airway sounds. While performing	some other source, or an unusual manifestation of the illness itself.
the examination you note multiple red welts and superficial abrasions scattered on	
the chest and upper back. When you question the parents, they tell you the marks are where "the sickness is leaving his body," and were produced by rubbing the	
skin with a coin. This traditional healing custom is practiced principally by people	
from which geographic region?	
A) Sub-Saharan Africa	
B) Southeast Asia	
C) The Middle East	
C) The Middle East D) Caribbean islands	
C) The Middle East D) Caribbean islands E) Andean South America	Child abuse 10.024 Sexual abuse ANS-C. The diagnosis of any sexually
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old</li> </ul>	Child abuse. <b>10-024.</b> Sexual abuse. <b>ANS=C.</b> The diagnosis of any sexually transmitted or associated infection in a postnatal prepubescent child should raise
C) The Middle East D) Caribbean islands E) Andean South America	transmitted or associated infection in a postnatal prepubescent child should raise
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common.
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> <li>E) Hepatitis B</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended.
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> <li>E) Hepatitis B</li> </ul> 09-213. +Psy+Cca. The physician counseling a 4-year-old child about the death of	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended.
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> <li>E) Hepatitis B</li> </ul> 09-213. +Psy+Cca. The physician counseling a 4-year-old child about the death of a loved one should keep in mind that children in this age group A) often feel no	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended. Child counselling. <b>09-213.</b> Recommendation. <b>ANS=B.</b> Children from the ages of 2 to 6 often believe they are somehow responsible for the death of a loved one.
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> <li>E) Hepatitis B</li> </ul> 09-213. +Psy+Cca. The physician counseling a 4-year-old child about the death of a loved one should keep in mind that children in this age group A) often feel no sense of loss B) often believe they are somehow responsible for the death C)	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended. Child counselling. <b>09-213.</b> Recommendation. <b>ANS=B.</b> Children from the ages of 2 to 6 often believe they are somehow responsible for the death of a loved one. The emotional pain may be so intense that the child may react by denying the
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> <li>E) Hepatitis B</li> </ul> 09-213. +Psy+Cca. The physician counseling a 4-year-old child about the death of a loved one should keep in mind that children in this age group A) often feel no	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended. Child counselling. <b>09-213.</b> Recommendation. <b>ANS=B.</b> Children from the ages of 2 to 6 often believe they are somehow responsible for the death of a loved one. The emotional pain may be so intense that the child may react by denying the death, or may somehow feel that the death is reversible. If children wish to attend
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> <li>E) Hepatitis B</li> <li>09-213. +Psy+Cca. The physician counseling a 4-year-old child about the death of a loved one should keep in mind that children in this age group A) often feel no sense of loss B) often believe they are somehow responsible for the death C) should not attend a funeral D) should usually be told the loved one is having a</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended. Child counselling. <b>09-213.</b> Recommendation. <b>ANS=B.</b> Children from the ages of 2 to 6 often believe they are somehow responsible for the death of a loved one. The emotional pain may be so intense that the child may react by denying the
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> <li>E) Hepatitis B</li> <li>09-213. +Psy+Cca. The physician counseling a 4-year-old child about the death of a loved one should keep in mind that children in this age group A) often feel no sense of loss B) often believe they are somehow responsible for the death C) should not attend a funeral D) should usually be told the loved one is having a</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended. Child counselling. <b>09-213.</b> Recommendation. <b>ANS=B.</b> Children from the ages of 2 to 6 often believe they are somehow responsible for the death of a loved one. The emotional pain may be so intense that the child may react by denying the death, or may somehow feel that the death is reversible. If children wish to attend a funeral, or if their parents want them to, they should be accompanied by an adult who can provide comfort and support. Telling a child the loved one is asleep or that he or she "went away" usually creates false hopes for return, or it may foster a
C) The Middle East D) Caribbean islands E) Andean South America <b>10-024</b> . +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse? A) Bacterial vaginosis B) Genital herpes C) Gonorrhea D) Anogenital warts E) Hepatitis B <b>09-213.</b> +Psy+Cca. The physician counseling a 4-year-old child about the death of a loved one should keep in mind that children in this age group A) often feel no sense of loss B) often believe they are somehow responsible for the death C) should not attend a funeral D) should usually be told the loved one is having a long sleep E) usually accept the finality of death with little question	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended. Child counselling. <b>09-213.</b> Recommendation. <b>ANS=B.</b> Children from the ages of 2 to 6 often believe they are somehow responsible for the death of a loved one. The emotional pain may be so intense that the child may react by denying the death, or may somehow feel that the death is reversible. If children wish to attend a funeral, or if their parents want them to, they should be accompanied by an adult who can provide comfort and support. Telling a child the loved one is asleep or that he or she "went away" usually creates false hopes for return, or it may foster a sleep phobia.
<ul> <li>C) The Middle East</li> <li>D) Caribbean islands</li> <li>E) Andean South America</li> <li>10-024. +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse?</li> <li>A) Bacterial vaginosis</li> <li>B) Genital herpes</li> <li>C) Gonorrhea</li> <li>D) Anogenital warts</li> <li>E) Hepatitis B</li> <li>09-213. +Psy+Cca. The physician counseling a 4-year-old child about the death of a loved one should keep in mind that children in this age group A) often feel no sense of loss B) often believe they are somehow responsible for the death C) should not attend a funeral D) should usually be told the loved one is having a long sleep E) usually accept the finality of death with little question</li> <li>10-158. +Pbs+Cca. A 16-year-old male is brought to your office by his mother for</li> </ul>	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended. Child counselling. <b>09-213.</b> Recommendation. <b>ANS=B.</b> Children from the ages of 2 to 6 often believe they are somehow responsible for the death of a loved one. The emotional pain may be so intense that the child may react by denying the death, or may somehow feel that the death is reversible. If children wish to attend a funeral, or if their parents want them to, they should be accompanied by an adult who can provide comfort and support. Telling a child the loved one is asleep or that he or she "went away" usually creates false hopes for return, or it may foster a sleep phobia.
C) The Middle East D) Caribbean islands E) Andean South America <b>10-024</b> . +Ref+Cca. Which one of the following confirmed findings in a 3-year-old female is diagnostic of sexual abuse? A) Bacterial vaginosis B) Genital herpes C) Gonorrhea D) Anogenital warts E) Hepatitis B <b>09-213.</b> +Psy+Cca. The physician counseling a 4-year-old child about the death of a loved one should keep in mind that children in this age group A) often feel no sense of loss B) often believe they are somehow responsible for the death C) should not attend a funeral D) should usually be told the loved one is having a long sleep E) usually accept the finality of death with little question	transmitted or associated infection in a postnatal prepubescent child should raise immediate suspicion of sexual abuse and prompt a thorough physical evaluation, detailed historical inquiry, and testing for other common sexually transmitted diseases. Gonorrhea, syphilis, and postnatally acquired <i>Chlamydia</i> or HIV are virtually diagnostic of sexual abuse, although it is possible for perinatal transmission of <i>Chlamydia</i> to result in infection that can go unnoticed for as long as 2–3 years. Although a diagnosis of genital herpes, genital warts, or hepatitis B should raise a strong suspicion of possible inappropriate contact and should be reported to the appropriate authorities, other forms of transmission are common. Genital warts or herpes may result from autoinoculation, and most cases of hepatitis B appear to be contracted from nonsexual household contact. Bacterial vaginosis provides only inconclusive evidence for sexual contact, and is the only one of the options listed for which reporting is neither required nor strongly recommended. Child counselling. <b>09-213.</b> Recommendation. <b>ANS=B.</b> Children from the ages of 2 to 6 often believe they are somehow responsible for the death of a loved one. The emotional pain may be so intense that the child may react by denying the death, or may somehow feel that the death is reversible. If children wish to attend a funeral, or if their parents want them to, they should be accompanied by an adult who can provide comfort and support. Telling a child the loved one is asleep or that he or she "went away" usually creates false hopes for return, or it may foster a sleep phobia.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
limits. His mother says that he is often in the nurse's office at school, and doesn't seem to have any friends. When you discuss these problems with him, he admits to being teased and called names at school. Which one of the following would be most appropriate? A) Explain that he must try to conform to be more popular B) Explain that these symptoms are a stress reaction and will lessen with time C) Explore whether his school counselor has a process to address this problem D) Order a TSH level	Children who say they are being bullied must be believed and reassured that they have done the right thing in acknowledging the problem. Parents should be advised to discuss the situation with school personnel. Bullying is extremely difficult to resolve. Confronting bullies and expecting victims to conform are not successful approaches. The presenting symptoms are not temporary, and in fact can progress to more serious problems such as suicide, substance abuse, and victim-to-bully transformation. These are not signs or symptoms of thyroid disease. The Olweus Bullying Prevention Program developed in Norway is a well documented, effective program for reducing bullying among elementary and middle-school students by altering social norms and by changing school responses to bullying incidents, including efforts to protect and support victims. Students who have been bullied regularly are more likely to carry weapons to school, be in frequent fights, and eventually be injured.
<ul> <li>08-160. +Ref+Mac. A 26-year-old gravida 2 para 1 presents at 30 weeks gestation with a complaint of severe itching. She has excoriations from scratching in various areas. She says that she had the same problem during her last pregnancy, and her medical records reveal a diagnosis of intrahepatic cholestasis of pregnancy. Elevation of which one of the following is most characteristic of this disorder?</li> <li>A) g-Glutamyltransferase (GGT)</li> <li>B) Bile acids</li> <li>C) Direct bilirubin</li> <li>D) Indirect bilirubin</li> </ul>	Cholestasis. <b>08-160.</b> Intrahepatic cholestasis of pregnancy classically presents as severe pruritus in the third trimester. <b>ANS=B.</b> Characteristic findings include the absence of primary skin lesions and elevation of serum levels of total bile acids. Jaundice and elevated bilirubin levels may or may not be present. The GGT usually is normal or modestly elevated, which can help differentiate this condition from other cholestatic liver diseases. The prothrombin time usually is normal, but if elevated it may reflect a vitamin K deficiency from malabsorption. <u>Uptodate:</u> TREATMENT — Treatment for ICP focuses on reducing symptoms and preventing maternal and fetal complications. Several drugs have been studied, and most focus on relieving symptoms. Ursodeoxycholic acid (UDCA) has
<ul> <li>E) Prothrombin time</li> <li>10-010. +Gas+Mac. &gt;L?* A 21-year-old primigravida at 28 weeks gestation complains of the recent onset of itching. On examination she has no obvious rash. The pruritus started on her palms and soles and spread to the rest of her body. Laboratory evaluation reveals elevated serum bile acids and mildly elevated bilirubin and liver enzymes. The most effective treatment for this condition is A) triamcinolone (Kenalog) cream B) cholestyramine (Questran)</li> <li>C) diphenhydramine (Benadryl) D) doxylamine succinate E) ursodiol (Actigall)</li> </ul>	emerged as the most promising treatment. Cholestasis. <b>10-010.</b> Intrahepatic cholestasis of pregnancy. ANS=E. This patient's symptoms and laboratory values are most consistent with intrahepatic cholestasis of pregnancy. Ursodiol has been shown to be highly effective in controlling the pruritus and decreased liver function (SOR A) and is safe for mother and fetus. Topical antipruritics and oral antihistamines are not very effective. Cholestyramine may be effective in mild or moderate intrahepatic cholestasis has affective and safe then ursodial
<b>07-111.</b> +Car+Com+Adm. A 58-year-old white female who has always been in good health sees you for a routine checkup. She has recently had two friends affected by cardiovascular disease, and asks if she should be taking any drugs to help her stay healthy. She does not smoke and her blood pressure is 130/85 mm Hg. Her total cholesterol level is 230 mg/dL, with an HDL level of 70 mg/dL and an LDL level of 130 mg/dL. Her father had heart problems beginning at age 65. You recommend exercise, maintaining ideal weight, and staying on a low-saturated fat diet. Which one of the following additional recommendations would be most appropriate? A) Hydrochlorothiazide to lower her blood pressure to <120/80 mm Hg, plus aspirin, 81 mg/day, and no additional medications B) Hydrochlorothiazide, a statin to lower her LDL to <130 mg/dL, and aspirin, 81 mg/day, and no additional medications D) Hydrochlorothiazide plus a statin, and no additional medications E) No medications	cholestasis, but is less effective and safe than ursodiol. Cholesterol. 07-111. Recommendations; ANS=E. According to the Adult Treatment Panel III, the first step in deciding treatment thresholds for cholesterol is to determine the number of risk factors for a cardiovascular event. <u>Risk</u> factors to be considered include HDL <35 mg/dL, smoking, hypertension, family history of a first degree relative with premature atherosclerotic vascular disease (male <45, female <55), and age (male >55, female >65). In addition, an HDL-cholesterol level >60 mg/dL is considered a negative risk factor. Given these thresholds, this patient has no risk factors for heart disease and is at low risk for a cardiovascular event. Her father's history of heart problems at age 65 is not a risk factor. Her blood pressure is in the prehypertensive range, but she does not need pharmacologic treatment. Her total cholesterol is mildly elevated, but the HDL level is high and treatment is not indicated to lower her LDL level since she is at low risk. The Women's Health Initiative showed that given this patient's low cardiac risk, aspirin is more likely to cause gastrointestinal bleeding or serious bleeding following trauma than to protect her from a cardiac event. Her main strategy for avoiding cardiovascular problems should be to live a healthy lifestyle and stay off medications, unless her risk factors change.
<b>08-152.</b> +Pbc+Adm. A 55-year-old white male sees you for follow-up after a recent lipid panel revealed no improvement in his hyperlipidemia. His total cholesterol level is 275 mg/dL, with an LDL-cholesterol level of 180 mg/dL, an HDL-cholesterol level of 35 mg/dL, and a triglyceride level of 275 mg/dL. These numbers are similar to two previous lipid panels obtained over the last several months, despite attempts at lifestyle changes. He has adequately treated essential hypertension, with a blood pressure of 125/83 mm Hg. There is no history of diabetes mellitus or tobacco use, and no family history of premature coronary heart disease. A physical examination is unremarkable except for a BMI of 33 kg/m^2 and a waist circumference of 107 cm (42 in). His fasting blood glucose level is 107 mg/dL. After discussion with the patient, you decide to start prescription drug therapy. The initial target of this therapy should be to reach his goal level of A) LDL cholesterol B) HDL cholesterol C) non-HDL cholesterol D) triglycerides E) fasting blood glucose	Cholesterol. 08-152. Recommendation. ANS=A. This patient meets the criteria for metabolic syndrome. In addition to lifestyle changes, pharmacologic treatment for his hyperlipidemia should be considered. The initial goal of this therapy should be to reach his LDL-cholesterol goal, usually using a statin. After achievement of this goal, non-HDL cholesterol is the secondary target for therapy. Non-HDL cholesterol is calculated by subtracting HDL cholesterol from total cholesterol. The non-HDL cholesterol goal is 30 mg/dL higher than the LDL-cholesterol goal. According to AHA, metabolic syndrome diagnosed by the presence of three or more of these components: Elevated waist circumference: Men — ≥40 inches (102 cm), Women — ≥35 inches (88 cm). Elevated triglycerides: Equal to or greater than 150 mg/dL. Reduced HDL ("good") cholesterol: Men — <40 mg/dL, Women — <50 mg/dL. Elevated blood pressure: ≥ 130/85 mm Hg. Elevated fasting glucose: ≥100 mg/dL. AHA recommendations (still valid in 2011): If your total cholesterol is 200
As of 2011, AHA primary LDL cholesterol goals (http://www.americanheart.org/presenter.jhtml?identifier=4704): 09-144. +Car+Adm. In a patient with hypertriglyceridemia, the National	<ul> <li>mg/dL or more, or your HDL cholesterol is less than 40 mg/dL (for men) and less than 50 mg/dL (for women), you need to have a lipoprotein profile done to determine your LDL cholesterol and triglyceride levels. Set appropriate management goals based on your LDL cholesterol level and other risk factors.</li> <li>1) LDL cholesterol &lt; 160 mg/dL if no more than one risk factor is present.</li> <li>2) LDL cholesterol &lt; 130 mg/dL (less than 100 mg/dL is an option) if two or more risk factors are present and 10-year CHD risk is less than 20 percent.</li> <li>3) LDL cholesterol &lt; 100 mg/dL (less than 70 mg/dL is an option for very high-risk patients) if two or more risk factors are present and 10-year CHD risk is 20 percent or higher or if person has diabetes.</li> <li>Cholesterol. 09-144. non-HDL. ANS=A. In a patient with</li> </ul>
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 26 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
Cholesterol Education Program recommends that <b>a reasonable goal for non-</b>	hypertriglyceridemia, a reasonable goal for non-HDL cholesterol is no more
HDL cholesterol is no more than	than 30 mg/dL above the LDL-cholesterol level. The National Cholesterol
A) 30 mg/dL above the LDL-cholesterol level	Education Program's Adult Treatment Panel III recommends a goal non-HDL
B) 40 mg/dL above the LDL-cholesterol level	cholesterol level of no more than 30 mg/dL greater than the LDL-cholesterol
C) 50 mg/dL above the LDL-cholesterol level	level. This is based on a "normal" very low density lipoprotein cholesterol level
D) 60 mg/dL above the LDL-cholesterol level	being defined as that present when triglycerides are <150 mg/dL. This value
E) 90 mg/dL above the LDL-cholesterol level	typically is $\leq \Box 30 \text{ mg/dL}$ . Conversely, when triglyceride levels are >150 mg/dL,
	very low density lipoprotein is usually >30 mg/dL.
<b>09-229.</b> +Car+Adm. A 52-year-old white male is being considered for	Cholesterol. <b>09-229.</b> Hyperlipidemia. <b>ANS=B.</b> According to the National
pharmacologic treatment of hyperlipidemia because of an LDL-cholesterol level	Cholesterol Education Program Adult Treatment Panel III Report of 2001, any
of 180 mg/dL. Before beginning medication for his hyperlipidemia, he should be	person with elevated LDL cholesterol or any other form of hyperlipidemia
screened for A) hyperthyroidism B) hypothyroidism C) Addison's disease D)	should undergo clinical or laboratory assessment to rule out secondary
Cushing's disease E) pernicious anemia	dyslipidemia before initiation of lipid-lowering therapy. Causes of secondary
	dyslipidemia include diabetes mellitus, hypothyroidism, obstructive liver
	disease, chronic renal failure, and some medications.
<b>10-076.</b> +Car+Adm.>L?* A 45-year-old white female with elevated cholesterol	Cholesterol. <b>10-076.</b> LDL and HDL. <b>ANS=A.</b> The patient is at her LDL and HDL
and coronary artery disease comes in for a periodic fasting lipid panel and liver	goals and has no complaints, so she should be continued on her current regimen
enzyme levels. She began statin therapy about 2 months ago and reports no	with routine monitoring (SOR C). <u>Research has proven that up to a threefold</u>
problems. Laboratory testing reveals an LDL-cholesterol level of 70 mg/dL, an	increase above the upper limit of normal in liver enzymes is acceptable for
HDL-cholesterol level of 55 mg/dL, an alanine aminotransferase (ALT) level of	patients on statins. Too often, slight elevations in liver enzymes lead to
69 U/L (N 7–30), and an aspartate aminotransferase (AST) level of 60 U/L (N 9–	unnecessary dosage decreases, discontinuation of statin therapy, or additional
25). Which one of the following would be most appropriate at this time?	testing.
A) Continue the current therapy with routine monitoring	
B) Decrease the dosage of the statin and monitor liver enzymes	
C) Discontinue the statin and monitor liver enzymes	
D) Discontinue the statin and begin niacin	
E) Substitute another statin	
10-126. +Car+Adm.* A 52-year-old hypertensive male has had two previous	Cholesterol. 10-126. LDL. ANS=A. This patient's goal LDL-cholesterol level is
myocardial infarctions. In spite of his best efforts, he has not achieved significant	70 mg/dL, and he is not at the maximum dosage of a potent statin. There is no
weight loss and he finds it difficult to follow a heart-healthy diet. He takes	data that shows that adding a different statin will be beneficial, and outcomes data
rosuvastatin (Crestor), 20 mg/day, and his last lipid profile showed	for the other actions is lacking. For patients not at their goal LDL-cholesterol
a total cholesterol level of 218 mg/dL, a triglyceride level of 190 mg/dL, an HDL-	level, the maximum dosage of a statin should be reached before alternative
cholesterol level of 45 mg/dL, and an LDL-cholesterol level of 118 mg/dL. Which	therapy is chosen.
one of the following would be the most appropriate change in management?	Uptodate: Rosuvastatin Max dose: 40mg/day. Dosage adjustment with
A) Increase the rosuvastatin dosage	concomitant medications: Cyclosporine: Rosuvastatin dose should not exceed
B) Add atorvastatin (Lipitor)	5 mg/day. With Gemfibrozil, atazanavir/ritonavir, or lopinavir/ritonavir:
C) Add niacin	Rosuvastatin dose should not exceed 10 mg/day.
D) Add fenofibrate (Lipofen, Tricor)	0 1
E) Add ezetimibe (Zetia)	
<ul> <li>E) Add ezetimibe (Zetia)</li> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several</li> </ul>	Cholesterol. <b>10-205. Red yeast rice</b> ( <i>Monascus purpureus</i> ) is a widely available
<b>10-205.</b> +Car+Adm. A patient who underwent coronary bypass grafting several	Cholesterol. <b>10-205.</b> <u>Red yeast rice (<i>Monascus purpureus</i>)</u> is a widely available dietary supplement that has been used as an herbal medication in China for
	dietary supplement that has been used as an herbal medication in China for
<b>10-205.</b> +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering.	
<b>10-205.</b> +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative
<b>10-205.</b> +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain
<b>10-205.</b> +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with	dietary supplement that has been used as an herbal medication in China for centuries. <b>ANS=D.</b> <u>In recent years it has been used for alternative</u> <u>management of hyperlipidemia in the U.S.</u> Extracts of red yeast rice <u>contain</u> <u>several active ingredients</u> , including monacolin K and other monacolins, that
<b>10-205.</b> +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast	dietary supplement that has been used as an herbal medication in China for centuries. <b>ANS=D.</b> <u>In recent years it has been used for alternative</u> <u>management of hyperlipidemia in the U.S.</u> Extracts of red yeast rice <u>contain</u> <u>several active ingredients</u> , including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. <u>Red yeast rice extract lowers total</u>
<b>10-205.</b> +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice <u>contain</u> <u>several active ingredients</u> , including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. <u>Red yeast rice extract lowers total</u> cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but <u>requires periodic monitoring of</u> liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but <u>requires periodic monitoring of</u> liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but <u>requires periodic monitoring of</u> liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>.</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the BI/NAP1 strain of <i>Clostridium difficile</i>.</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> <li>C) A quinolone</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> <li>C) A quinolone</li> <li>D) A cephalosporin</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> <li>C) A quinolone</li> <li>D) A cephalosporin</li> <li>E) Metronidazole (Flagyl)</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins. Chronic unilateral nasal obstruction. 09-049. Ans=A. The most common cause of nasal obstruction in all age groups is the common cold, which is classified as mucosal disease. Anatomic abnormalities, however, are the most frequent cause of constant unilateral obstruction, with septal deviation being most common. Foreign-body impaction is an important, but infrequent, cause of unilateral obstruction and purulent rhinorrhea. Mucosal disease is usually bilateral and intermittent. Adenoidal hypertrophy is the most common tumor or growth to cause nasal obstruction, followed by nasal polyps, but both are less frequent than true anatomic causes of constant obstruction. <i>Clostridium difficile</i> colitis. 07-234. <i>Pneumonia; Clostridium difficile</i> colitis prevention in pneumonia patients. ANS=B. Penicillins, cephalosporins, and quinolones are highly associated with <i>Clostridium difficile</i> colitis, but macrolides are not. Metronidazole would not be an appropriate treatment for pneumonia. Hint: Macrolides: <u>A</u> zithromycin, <u>C</u> larithromycin, <u>E</u> rythromycin (Think of <u>MAC</u> <u>East MacDonald's</u> ). Aminoglycosides: Gentamicin, Neomycin, Amikacin, Tobramycin, Streptomycin. "Mean" GNATS cannot kill anaerobes.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> <li>C) A quinolone</li> <li>D) A cephalosporin</li> <li>E) Metronidazole (Flagyl)</li> <li>08-132. +Gas+Adm. A 54-year-old white female has been taking amoxicillin for 1</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> <li>C) A quinolone</li> <li>D) A cephalosporin</li> <li>E) Metronidazole (Flagyl)</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> <li>C) A quinolone</li> <li>D) A cephalosporin</li> <li>E) Metronidazole (FlagyI)</li> <li>08-132. +Gas+Adm. A 54-year-old white female has been taking amoxicillin for 1 week for sinusitis. She has developed diarrhea and has had 6–8 stools per day for the past 2 days. Examination shows the patient to be well hydrated with normal</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice <u>contain</u> <u>several active ingredients</u> , including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. <u>Red yeast rice extract lowers total</u> <u>cholesterol, LDL-cholesterol, and triglycerides</u> . It may be useful for patients unable to tolerate statins due to myalgias, but <u>requires periodic monitoring of</u> <u>liver enzymes</u> because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> <li>C) A quinolone</li> <li>D) A cephalosporin</li> <li>E) Metronidazole (Flagyl)</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice contain several active ingredients, including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. Red yeast rice extract lowers total cholesterol, LDL-cholesterol, and triglycerides. It may be useful for patients unable to tolerate statins due to myalgias, but requires periodic monitoring of liver enzymes because its metabolic effects and potential for consequences are similar to those of statins.
<ul> <li>10-205. +Car+Adm. A patient who underwent coronary bypass grafting several months ago has been intolerant of all medications for cholesterol lowering. However, on the recommendation of a friend, he began taking red yeast rice that he purchased at a natural healing store. His cholesterol level has improved with this product and he has tolerated it so far. You should consider monitoring which one of the following in this patient, based on the active ingredient in red yeast rice?</li> <li>A) WBC count</li> <li>B) Platelet count</li> <li>C) Prothrombin time</li> <li>D) Liver enzymes</li> <li>E) Kidney function tests</li> <li>09-049. +Res+Csp. Which one of the following is the most likely cause of chronic unilateral nasal obstruction in an adult? A) Nasal septal deviation B) Foreign-body impaction C) Allergic rhinitis D) Adenoidal hypertrophy</li> <li>07-234. +Res+Adm. A 57-year-old male presents with a 1-week history of cough and fever. His WBC count is 13,000/mm3 (N 4300–10,800) and a chest radiograph reveals a left lower lobe infiltrate. The community has recently had multiple cases of infection with the BI/NAP1 strain of <i>Clostridium difficile</i>. Which one of the following would be the most appropriate initial therapy in this patient?</li> <li>A) A penicillin</li> <li>B) A macrolide</li> <li>C) A quinolone</li> <li>D) A cephalosporin</li> <li>E) Metronidazole (Flagyl)</li> <li>08-132. +Gas+Adm. A 54-year-old white female has been taking amoxicillin for 1 week for sinusitis. She has developed diarrhea and has had 6–8 stools per day for the past 2 days. Examination shows the patient to be well hydrated with normal</li> </ul>	dietary supplement that has been used as an herbal medication in China for centuries. ANS=D. In recent years it has been used for alternative management of hyperlipidemia in the U.S. Extracts of red yeast rice <u>contain</u> <u>several active ingredients</u> , including monacolin K and other monacolins, that have HMG-CoA reductase inhibitory activity and are considered to be naturally occurring forms of lovastatin. <u>Red yeast rice extract lowers total</u> <u>cholesterol, LDL-cholesterol, and triglycerides</u> . It may be useful for patients unable to tolerate statins due to myalgias, but <u>requires periodic monitoring of</u> <u>liver enzymes</u> because its metabolic effects and potential for consequences are similar to those of statins.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
blood, and a stool screen for Clostridium difficile toxin is positive. The most	vancomycin-resistant organisms. If the patient has refractory symptoms despite
appropriate treatment at this time would be	treatment with oral metronidazole, then oral vancomycin would be appropriate.
A) vancomycin (Vancocin) intravenously	
B) metronidazole (Flagyl) orally	
C) trimethoprim/sulfamethoxazole (Bactrim, Septra) orally	
D) ciprofloxacin (Cipro) orally	
<b>09-176.</b> +Gas+Adm. A 70-year-old African-American male who has been	<i>Clostridium difficile.</i> 09-176. ANS=B. This patient most likely has <i>Clostridium</i>
hospitalized for 2 <sup>1</sup> / <sub>2</sub> weeks for heart failure develops severe, persistent diarrhea. For the past 3 days he has had abdominal cramps and profuse, semi-formed stools	<i>difficile</i> colitis, suggested by semiformed rather than watery stool, fecal leukocytes (not seen in viral gastroenteritis or sprue), and a hospital stay greater
without mucus or blood. The patient's current medications include captopril	than 2 weeks. While this disease has traditionally been associated with antibiotic
(Capoten), digoxin, furosemide (Lasix), subcutaneous heparin, spironolactone	use, it is posing an increasing threat to patients in hospitals and chronic-care
(Aldactone), and loperamide (Imodium). He has coronary artery disease, but has	facilities who have not been given antibiotics. The primary sources for infection in
been relatively pain free since undergoing coronary artery bypass surgery 4 years	such cases have been toilets, bedpans, floors, and the hands of hospital personnel.
ago. An appendectomy and cholecystectomy were performed in the past, and the	Prompt recognition and treatment is essential to prevent patient relapse and to
patient has since been free of gastrointestinal disease. On physical examination his	minimize intramural epidemics. The diarrhea of ulcerative colitis usually contains
blood pressure is 100/80 mm Hg, pulse 100 beats/min and regular, and	blood and occurs intermittently over a protracted course. Digoxin toxicity is likely
temperature 37.0°C (98.6°F). He has mild jugular venous distention and crackles	to be accompanied by electrocardiographic and laboratory abnormalities,
at both lung bases. Examination of his heart is unremarkable, although there is 1+	particularly hyper- or hypokalemia.
dependent edema. His abdomen is diffusely tender without masses or	
organomegaly. Findings on a rectal examination are normal. The results of routine	
laboratory tests, including a CBC, chemistry profile, EKG, and urinalysis, are all	
normal. The stool examination shows numerous white blood cells. Of the	
following, the most likely diagnosis is A) viral gastroenteritis B) Clostridium	
difficile colitis C) ulcerative colitis D) gluten-sensitive enteropathy (celiac sprue)	
E) digoxin toxicity	
<b>10-212.</b> +Gas+Adm.>L* A 68-year-old male was seen in a local urgent-care clinic	<i>Clostridium difficile</i> . <b>10-212.</b> Diarrhea, <i>Clostridium difficile</i> –associated. <b>ANS=A</b> .
6 days ago for upper respiratory symptoms and was started on cefuroxime	This patient is at high risk for <i>Clostridium difficile</i> -associated diarrhea, based on
(Ceftin). He presents to your office with a 2-day history of 4–5 watery stools per	his age and his recent broad-spectrum antibiotic use. The initial management is to
day with no blood or mucus. He is afebrile and has a normal abdominal and rectal examination. A stool guaiac test is negative, and a stool sample is sent for further	stop the antibiotics. Treatment should not be initiated unless the stool is positive
testing. What is the best initial management for this patient?	for toxins A and B. The recommended initial treatment for <i>C. difficile</i> enteritis is oral metronidazole. Probiotics may be useful for prevention, but their use is
A) Stop the cefuroxime	controversial. Loperamide should be avoided, as it can slow down transit times
B) Start ciprofloxacin (Cipro)	and worsen toxin-mediated diarrhea.
C) Start metronidazole (Flagyl)	
D) Start loperamide (Imodium)	
E) Recommend probiotics until he completes the course of cefuroxime	
07-006. +Gas+Adm. A 35-year-old white female presents to your office with a	Colic, biliary. 07-006. gallbladder; biliary dyskinesia. ANS=C. This patient has
history of three episodes of intense right upper quadrant pain over the last few	biliary colic but does not have gallstones. Most such patients have biliary
weeks. Each attack developed a few hours after her evening meal, lasted 1-2	dyskinesia, which can be assessed well by a nuclear scan of the gallbladder with
hours, and was accompanied by nausea. Between episodes she feels fine. She	injection of cholecystokinin. Although some controversy exists with regard to this
went to the emergency department after the third episode, and blood tests and a	problem, confirmed cases tend to have a good response to cholecystectomy.
sonogram of the gallbladder were negative. Which one of the following would	
you recommend? A) Weight loss through a combination of diet and exercise B) A	
low-fat diet C) A nuclear scan of the gallbladder D) A CT scan of the abdomen E) Endoscopic retrograde cholangiopancreatography (ERCP)	
<b>07-115.</b> +Gas+Cca. A 3-month-old male is brought to your office by his	Colic, infantile. 07-115. ANS=C. The most widely accepted definition of infantile
exhausted parents. The child is bottle fed with cow's milk formula. For the past 3	colic is the Wessel definition, which describes colic as "unexplained
weeks he has cried uncontrollably for several hours most evenings. He refuses the	paroxysmal bouts of fussing and crying that lasted >3 hours a day, for >3
bottle and cannot be distracted. There has been no vomiting, although he	days a week, for >3 weeks duration." The absence of vomiting and the normal
frequently "spits up" when carried, rocked, or burped. His mother describes 2–3	stools make the other diagnoses unlikely.
normal bowel movements a day. Your examination is unremarkable. The child is	
gaining weight appropriately. The most likely diagnosis is A) pyloric stenosis B)	
annular pancreas C) infantile colic D) Hirschsprung's disease E) casein allergy	
<b>08-192.</b> +Gas+Cca. Current thinking regarding infantile colic is that the cause is	Colic, infantile. <b>08-192.</b> Colic is a frustrating condition for parents and doctors
A) malabsorption B) overfeeding C) excessive air swallowing D) unknown	alike. ANS=D. The parents would like an explanation and relief, and physicians
E) parental anxiety	would like to offer these things. At this time, however, in spite of numerous
	studies and theories, the cause of colic remains unknown.
07-109. +Gas+Pbc+Com. A 57-year-old male has laboratory screening performed	Colon cancer. 07-109. recommendations. ANS=C. <u>Asymptomatic persons</u>
prior to his annual examination. One of his six fecal occult blood tests is positive.	<b>between 50 and 80 years of age should be screened for colon cancer</b> . A single
A CBC, chemistry panel, lipid panel, and prostate-specific antigen level are all	fecal occult blood test (FOBT) performed in the office after a digital rectal
normal. Which one of the following would be the most appropriate course of action? A) Repeat the fecal occult blood testing in 3 months B) Perform a rectal	examination is an inadequate screen, with significant false-negative and false- positive rates. Annual six-sample FOBT (two samples from three different bowel
examination in the office, and if a stool guaiac is negative repeat the fecal occult	movements) improves colon cancer detection but can still have false-negative
blood testing in 3 months C) Refer for colonoscopy D) Refer for flexible	results. If any of the six samples tests positive for occult blood, colonoscopy is
sigmoidoscopy E) Refer for pre- and post-contrast CT of the abdomen and pelvis	recommended.
<b>07-120.</b> +Pbc+Adm. A 58-year-old white male has a negative screening	Colon cancer. 07-120. recommendations; ANS=D. The evidence supports a <u>10-</u>
colonoscopy. He has no symptoms and no family history of colon carcinoma. His	year interval for colonoscopy in patients less than 80 years old. For patients with
next screening colonoscopy should be scheduled in A) 1 year B) 3 years C) 5	a family history of colon cancer a 5-year interval is recommended, or 3 years
years D) 10 years	if benign polyps are found. Screening in patients over 80 years old is
	controversial.
<b>08-201.</b> +Gas+Csp. A 53-year-old male presents for follow-up after a routine	Colon cancer. 08-201. Risk factors for proximal neoplasia include high-grade
screening colonoscopy. He is healthy and takes no medications, and his family	dysplasia, three or more adenomas, adenomas with villous features, and an
history is negative for colon cancer. During a thorough, relatively easy	adenoma $\geq 1$ cm in size. <b>ANS=E.</b> For patients with one or more of these findings,
colonoscopy to the cecum, two rectal polyps measuring 0.7 mm were removed,	follow-up colonoscopy in 3 years is recommended. The clinical benefit of
both of which were found to be hyperplastic on pathologic analysis. His next	follow-up surveillance colonoscopy in patients with one or two small
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 28 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
surveillance colonoscopy should be in	adenomas has never been demonstrated. Distal hyperplastic polyps are not
A) 1 year	markers for proximal or advanced neoplasia. Patients with this finding on
B) 3 years	colonoscopy should be considered to have a normal colonoscopy and the interval
C) 5 years	until the next colonoscopy should be 10 years.
D) 7 years	
E) 10 years	
<b>09-092.</b> +Gas+Adm. A 55-year-old male is found to have three hyperplastic	Colon cancer. <b>09-092.</b> screening, recommendations. <b>ANS=D.</b> Colonoscopy is the
polyps on a routine screening colonoscopy. He has no personal or family history	gold standard for screening for colon cancer. Because of differences in
of colon cancer. This patient's next colonoscopy should be in	recommended screening intervals, the American Cancer Society and the U.S.
A) 1 year	Multi-Society Task Force on Colorectal Cancer issued recommendations for follow-up in 2006 to bring some uniformity to the guidelines. <b>Patients with</b>
B) 3 years	1 0 0 0
C) 5 years D) 10 years	hyperplastic polyps are considered to have normal colonoscopy findings and can be followed up in 10 years, unless they have hyperplastic polyposis
D) 10 years	syndrome. Patients with one or two small adenomas (<1 cm, with no- or low-
	grade dysplasia) are considered at low risk and can be followed up in 5–10 years,
	depending on family history, previous colonoscopy findings, and patient and
	physician preference. Patients with three or more small adenomas, or one
	adenoma >1 cm3 in size should be followed up in years if the adenomas are
	completely removed. Patients who have had a sessile adenoma removed
	piecemeal should have repeat colonoscopy in 2–6 months to make sure that the
	polyp has been completely removed. Other factors that influence the screening
	interval include the quality of the preparation and the ability of the physician to
	see the entire colon. Although this patient had three hyperplastic polyps removed,
	he is at low risk for colon cancer and should have repeat screening at the normal
	10-year interval.
10-032P. +Gas+Csp.? On his first screening colonoscopy, a 67-year-old male is	Colon cancer. 10-032. colonoscopy. ANS=D. Overuse of colonoscopy has
found to have a 0.5-cm adenomatous polyp with low-grade dysplasia. According	significant costs. In response to these concerns, the American Cancer Society and
to current guidelines, when should this patient have his next colonoscopy?	the U.S. Multi-Society Task Force on Colorectal Cancer collaborated on a
A) 6 months	consensus guideline on the use of surveillance colonoscopy. According to these
B) 1 year	guidelines, patients with one or two small (<1 cm) tubular adenomas,
C) 3 years	including those with only low-grade dysplasia, should have their next
D) 5 years	<u>colonoscopy in 5–10 years (</u> SOR B).
E) Screening is no longer necessary	
<b>10-127.</b> +Gas+Csp.>L* Screening for colon cancer would be recommended for	Colon cancer. 10-127. ANS=B. A history of a first degree relative diagnosed with
which one of the following patients?	colon cancer before age 60 predicts a higher lifetime incidence of colorectal
A) A 35-year-old male whose mother was diagnosed with colon cancer at age 52	cancer (CRC) and a higher yield on colonoscopic screening. The overall colon
B) A 40-year-old female whose mother was diagnosed with colon cancer at age 54	cancer risk for these persons is three to four times that of the general population.
C) A 44-year-old female whose father had a tubular adenoma <1 cm in size	Screening should consist of colonoscopy, beginning either at age 40 or 10 years
removed during colonoscopy at age 50	before the age at diagnosis of the youngest affected relative, whichever comes first. The 2008 update of the guidelines on screening for CRC published by the
D) A 46-year-old male whose paternal uncle was diagnosed with colon cancer at age 51	American College of Gastroenterology no longer recommends earlier screening
E) A 48-year-old female whose father was diagnosed with colon cancer at age 74	for patients who have a single first degree relative with CRC diagnosed at 60
E) A 46-year-old lemate whose fauler was diagnosed with colon cancer at age 74	years of age or after. Another change in this guideline is that an increased level of
	screening is no longer recommended for a simple family history of adenomas in a
	first degree relative.
07-197. +Pbs+Mac. A pregnant 20-year-old female is diagnosed with a	Confidentiality. 07-197. ANS=A. There are three situations when a breach of
<i>Chlamydia</i> infection. She is treated and the infection is cured, but she tests	confidentiality is justified: abuse of a vulnerable person (child or elderly), a public
positive again at a follow-up visit. In this situation, contacting her sexual partners	health risk (communicable disease), or substantial danger to the patient or others.
is considered a reasonable breach of confidentiality because	While <i>Chlamydia</i> is not usually considered life-threatening or dangerous, it is
A) there is a public health risk	communicable. Contacting sexual partners to notify and treat them to stem the
B) there is a risk to the fetus	spread of disease is recommended.
C) the patient's <i>Chlamydia</i> infection has become resistant to antibiotics	•
D) there is a risk of pelvic inflammatory disease	
10-170. +End+Euc. A mother brings her 2-month-old infant to the emergency	Congenital adrenal hyperplasia. 10-170. Congenital adrenal hyperplasia is a
department because of profuse vomiting and severe diarrhea. The infant is	family of diseases caused by an inherited deficiency of any of the enzymes
dehydrated, has a cardiac arrhythmia, appears to have ambiguous genitalia, and is	necessary for the biosynthesis of cortisol. ANS=C. In patients with the salt-losing
in distress. This presentation suggests a diagnosis of	variant, symptoms begin shortly after birth with failure to regain birth weight,
A) acute gastroenteritis	progressive weight loss, and dehydration. Vomiting is prominent, and anorexia is
B) hypertrophic pyloric stenosis	also present. Disturbances in cardiac rate and rhythm may occur, along with
C) congenital adrenal hyperplasia	cyanosis and dyspnea. In the male, various degrees of hypospadias may be seen,
D) congenital intestinal malrotation	with or without a bifid scrotum or cryptorchidism.
E) Turner's syndrome	
<b>07-051.</b> +Pbc+Cca. A 7-year-old African-American male is brought to your office	Conjunctivitis. 07-051. bacterial. ANS=A. <u>Once therapy is initiated, children</u>
with a 1-day history of purulent, crusted eyelashes in the morning, and red eye.	with bacterial conjunctivitis should be allowed to remain in school. Careful
There is no history of visual change, foreign body, or injury. The child is	hand hygiene is important, however, and behavior must be appropriate to maintain
otherwise in good health and has normal developmental milestones. No fever or	adequate hygiene. No specific length of treatment or evidence of clinical response
respiratory distress is noted. A clinical diagnosis of bacterial conjunctivitis is	is required before returning to school.
made. The mother is anxious to keep the child in school. Which one of the following would be the most appropriate time for the child to return to school? A)	
following would be the most appropriate time for the child to return to school? A)	
Once treatment is started B) When there is no crusting or drainage in the morning C) After 1 week of treatment D) When the absence of fever for 24 hours is	
documented E) When there is resolution of conjunctival erythema	
<b>07-082.</b> +Pbs+Com. One year after being diagnosed with early Alzheimer's	Consent. 07-082. Decision-making capacity. The primary care physician can
or-oom ri osteoni. One year anter being uragnosed with early Alzheinier S	assess a patient's decision-making capacity based on ability to reason,
disease one of your long-time patients develops symptomatic carotid steposis.	
disease, one of your long-time patients develops symptomatic carotid stenosis. A vascular surgeon has recommended surgical treatment, but the patient's family is	
disease, one of your long-time patients develops symptomatic carotid stenosis. A vascular surgeon has recommended surgical treatment, but the patient's family is Copyrighted Material. ITE Personal Notes. Not for Sale. Page 29 of 170	communicate, understand the proposed treatment, and grasp the Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
uncertain whether he should have the surgery or whether he is capable of making the decision. The children are evenly split in their opinion regarding the surgery, and they ask your opinion about this decision. Which one of the following is true regarding this situation? A) The patient is incapable of making this decision because of his dementia B) The Mini-Mental State Examination score determines competence C) The patient should be evaluated by a psychiatrist D) A judicial determination of competence should be obtained E) The patient's decision-making capacity can be adequately assessed by clinical evaluation	<b>consequences of accepting or declining the suggested treatment. ANS=E.</b> Formal mental status testing and determination of capacity are different functions. However, there is a certain level of cognitive impairment where a patient simply lacks any ability to receive and process health information. At somewhat higher levels of cognition a patient might lack specific mental abilities, but still be able to satisfy the requirements for making treatment decisions. Accurate mental status testing is helpful for assessing the capacity to choose; however, there is not a specific score that determines capacity. Determination of capacity does not require legal intervention or psychiatric expertise. There is no specific test for decision- making capacity. Competence is a legal term in this situation. Decisions regarding competence are judicial determinations when evaluating the capacity of a person to make nonmedical decisions such as financial decisions. Under the law, adults are presumed to be competent until a specific action of the appropriate court finds them otherwise.
<b>08-114.</b> +Pbc+Euc. A 7-year-old male is hospitalized after sustaining abdominal trauma in an accident. The child is conscious. His pulse rate is 150 beats/min, his systolic blood pressure is palpated at 60 mmHg, and his respiratory rate is 40/min. His hemoglobin level is 4.0 g/dL because of trauma-related blood loss. His clinical condition is deteriorating despite an infusion of intravenous volume expanders, but the parents are Jehovah's Witnesses and refuse to consent to a blood transfusion because of their religious convictions. Your prognosis is that without a blood transfusion the patient will die. According to medical-legal precedent, which one of the following is correct? A) The patient should receive the transfusion regardless of the parents' wishes B) The patient can be transfused regardless of the parents' wishes once he becomes asystolic C) The parents may refuse the transfusion if they are in agreement D) The parents may refuse the transfusion if they are in agreement E) The parents may refuse the transfusion if there is a legally executed advance directive	Consent. <b>08-114. ANS=A.</b> The refusal to accept any medical intervention, including life-saving blood transfusions, has been well established for adults who have the ability to definitively communicate their wishes. Also, parents have the power to give or withhold consent to medical treatment on behalf of their children. However, Western courts have deemed that parents cannot refuse emergency, life-saving treatment to children based on these principles: (1) the child's interests and those of the state outweigh parental rights to refuse medical treatment; (2) parental rights do not give parents life and death authority over their children; and (3) parents do not have an absolute right to refuse medical treatment for their children, if that refusal is regarded as unreasonable.
<ul> <li>09-202. +Pbs+Com. In which one of the following scenarios would additional consent from a child's parent or guardian be necessary prior to treatment?</li> <li>A) A 6-year-old female with divorced parents who lives primarily with her mother is brought to the clinic by her father to discuss his concerns of possible abuse</li> <li>B) An 8-year-old unconscious male is brought to the emergency department by a neighbor after falling out of a tree and striking his head</li> <li>C) A 13-year-old male is brought to the clinic by a babysitter with a note giving permission to treat signed by a parent</li> <li>D) A 15-year-old female who is considered emancipated under state law comes to your office to discuss family planning</li> <li>E) A 16-year-old female who has driven herself to her clinic appointment reports a 2-day history of ear pain; she says her mother made this appointment for her</li> </ul>	Consent. <b>09-202.</b> Informed consent. <b>ANS=E.</b> Informed consent to treat is considered an important ethical and legal part of caring for children and adolescents. Some situations can become confusing when trying to balance the need for treatment, a child's assent, and a parent or guardian's permission. In mos states, 18 is the age when legal decisions can be made; however, in some states it is 21. Children under the age of majority must have proof of permission to treat from a parent or guardian for non-emergent care. This does not apply to emergency situations in which a delay in care could result in serious harm. Another exception to parental consent is when a child is considered emancipated under state law. This can happen with a court order, or (in some states) if the child is married, is a parent, is in the military, or is living independently. Either biologic parent can consent to treatment unless one of them is explicitly denied guardianship. If a child presents with a non-emergent condition and does not have evidence of permission from a parent or guardian, permission should be sought before the physician interaction takes place.
<ul> <li>10-137. +Pbs+Mhe. When obtaining informed consent from a patient, which one of the following is NOT required for a patient to legally have decision-making capacity?</li> <li>A) The absence of mental illness</li> <li>B) The ability to express choice</li> <li>C) The ability to understand relevant information</li> <li>D) The ability to engage in reasoning</li> <li>E) The ability to appreciate the significance of information and its consequences</li> </ul>	Consent. <b>10-137.</b> Decision-making capacity. <b>ANS=A.</b> <u>Patients with mental</u> <u>illness may have decision-making capacity if they are able to understand and</u> <u>communicate a rational decision</u> . The key factors to consider in determining decision-making capacity include whether the patient can express a choice, understand relevant information, appreciate the significance of the information and its consequences, and engage in reasoning as it relates to medical treatment.
<b>07-013.</b> +Gas+Cca. A 6-year-old male is brought to your office with abdominal pain of 6 months' duration. He has a history of constipation, with passage of hard, large-caliber stools approximately once a week. Encopresis also is a problem, with accidental passage of loose stool. His general examination is negative, but he and his mother refuse to allow a digital rectal examination. He does have a normal anal wink and cremasteric reflex. Which one of the following tests would be most appropriate at this time? A) CT of the abdomen B) Ultrasonography C) A barium enema D) An abdominal plain film E) Referral for pediatric colonoscopy	Constipation. <b>07-013.</b> Functional. <b>ANS=D.</b> A child passing infrequent, large- caliber stools, often with fecal soiling, suggests functional constipation. Encopresis often results from passage of loose stool around hardened stool in the rectal vault. A physical examination will sometimes reveal palpable stool in the left lower quadrant. If possible, a digital rectal examination should be done. If this isn't possible, a plain-film abdominal radiograph will likely reveal a fecal impaction. A CT scan and a barium enema are not as helpful. Functional constipation can be managed without colonoscopy. Constipation in children older than 1 year of age is functional in more than 95% of cases. However, causes of organic constipation include Hirschsprung's disease, hypothyroidism, hypercalcemia, hypokalemia, diabetes mellitus, diabetes insipidus, cystic fibrosis, gluten enteropathy, spinal cord lesions, neurofibromatosis, heavy metal poisoning medication side effects, developmental delay, and sexual abuse.
<ul> <li>07-225. +Gas+Adm. A 69-year-old white male with severe chronic low back pain is treated with oxycodone, 80 mg twice daily and 15 mg every 4 hours for breakthrough pain. Which one of the following is the best initial regimen to prevent associated constipation? A) Docusate sodium/senna B) Sorbitol C) Lactulose D) Weekly enemas E) No prophylactic treatment</li> <li>07-130. +Ref+Cfp. Which one of the following FDA-approved regimens</li> </ul>	Constipation. 07-225. opiods. ANS=A. Patients taking opioids should receive prophylactic laxatives consisting of a stool softener (docusate sodium) and a bowel stimulant (senna), as long as diarrhea is not present. If this measure fails, an osmotic agent, such as sorbitol or lactulose, should be added.
<b>07-130.</b> +Ref+Ctp. Which one of the following FDA-approved regimens interrupts a pregnancy once implantation has occurred? A) Levonorgestrel (Plan B), two 0.75-mg tablets taken 12 hours apart B) Ethinyl	Contraception. 07-130. Emergency contraception refers to the use of medications to prevent pregnancy in the event of unprotected intercourse or failure of a method of contraception. ANS=C. Many emergency contraception regimens have been

studied and utilized. The mechanism of action for these regimens is uncertain and might include inhibiting ovulation, interfering with tubal transport, preventing implantation, or stimulating regression of the corpus luteum. Several regimens are approved for emergency contraception but must be used within 72 hours after unprotected intercourse to be effective. These regimens are not effective following implantation. <b>Mifepristone (RU-486) is the only FDA-approved regimen that</b> <b>interrupts a pregnancy after implantation has occurred.</b> It is used for early pregnancy termination, rather than emergency contraception. Contraception. <b>07-194.</b> Depot medroxyprogesterone acetate (DMPA) is useful in women with contraindications to estrogen use (migraines, deep-vein thrombosis,
women with contraindications to estrogen use (migraines, deep-vein thrombosis,
cigarette smoking in those over age 35). <b>ANS=C.</b> Amenorrhea and irregular bleeding are the most common adverse effects of DMPA. Other side effects include irritability, depression, weight gain, hair loss, and acne. Acne and other skin problems are related to the drug's androgenicity. DMPA is associated with an increase in bone resorption and a significant reduction in bone mineral density, presumably due to the induction of estrogen deficiency. In women of normal weight, DMPA has been shown to cause no statistically significant change in weight; however, in obese adolescents using DMPA there is an increased likelihood of weight gain compared to oral contraceptives and nonhormonal contraception.
Contraception. <b>08-018.</b> Galactorrhea. <b>ANS=A.</b> This patient has galactorrhea, which is defined as a milk-like discharge from the breast in the absence of pregnancy in a non-breastfeeding patient who is more than 6 months post partum. It is more common in women ages 20–35 and in women who are previously parous. It also can occur in men. Medication side effect is the most common etiology. The most common pharmacologic cause of galactorrhea is oral contraceptives. Oral contraceptives that contain estrogen can both suppress prolactin inhibitory factor and stimulate the pituitary directly, both of which can cause galactorrhea. Other medications that can cause galactorrhea include metoclopramide, cimetidine, risperidone, methyldopa, codeine, morphine, verapamil, SSRIs, butyrophenones, dopamine-receptor blockers, tricyclics, phenothiazines, and thioxanthenes. Breast cancer is unlikely to present with a bilateral milky discharge. The nipple discharge associated with cancer is usually unilateral and bloody. Pituitary tumors are a pathologic cause of galactorrhea due to the hyperprolactinemia that is caused by the blockage of dopamine from the hypothalamus, or by the direct production of prolactin. However, patients often have symptoms such as headache, visual disturbances, temperature intolerance, seizures, disordered appetite, polyuria, and polydipsia. Patients with prolactinomas often have associated amenorrhea. These tumors are associated with marked levels of serum prolactin, often >200 ng/mL. Hypothalamic lesions such as craniopharyngioma, primary hypothalamic tumor, metastatic tumor, histiocytosis X, tuberculosis, sarcoidosis, and empty sella syndrome are
significant but infrequent causes of galactorrhea, and generally cause symptoms similar to those of pituitary tumors, particularly headache and visual disturbances. It is rare for primary hypothyroidism to cause galactorrhea in adults. Symptoms that would be a clue to this diagnosis include fatigue, constipation, menstrual irregularity, weight changes, and cold intolerance. Contraception. <b>08-172.</b> advance provision of emergency contraception. A Cochrane review including randomized, controlled trials (RCTs) compared standard access to emergency contraception (EC) with advance provision. The review found eight trials, five of which were conducted in the U.S. <b>ANS=B</b> Two of the RCTs were sufficiently powered to show a difference in pregnancy rates. No study showed that giving advance EC reduced pregnancy rates on a population level. However, women who were provided with advance EC took the pills an average of approximately 15 hours sooner than women without advance access. Five studies that reported on contraception use did not show a difference in type or frequency of regular contraception use among women who were provided advance EC. Women randomized to the advance EC groups were 2.5 times more likely to use EC once, and 4 times more likely to use it 2 or more times, compared to those without advance access. Three studies reported rates of sexually transmitted infection and none found differences between the advance and standard access EC groups. Six studies reported rates of
unprotected sexual intercourse and found no difference. The Cochrane review concludes that advance access to EC appears to be safe, but does not reduce pregnancy on a population level. However, advance provision might be beneficial because it increases the speed and frequency of EC use. Contraception. 10-065. Healthy women may continue combination birth control pills into their fifties, and this patient has no contraindications. ANS=E. Screening for thrombophilic conditions is not indicated due to the low yield. FSH levels are not specific enough to evaluate the effect of stopping the contraceptive.

intrombophilic conditions is negative         Contractprism, 10-141. Introduction, 10-141. Interpretation processing and the advectory of the second contract of biastissis in processing and advectory of the second contract of biastissis in processing and advectory of the second contract of biastissis in processing and advectory of the second contract of biastissis in processing and advectory of the second contract of biastissis in processing and advectory of the second contract of biastissis in processing advectory of the second contract of the second contract of the second contract of the second contexes of the second contract of the second contexes of the second	Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li><b>10</b>-<b>111</b>. Lifter Job Am. 72 A 34-rear-old formale with a history of Nataeral tubal ligation consults you because of excession high and particular. See has a spiring because, at any symmotoxice, atong with oral contracting because in the particular interpretations in the particular interpretation in the second interpretation interpretation in the second interpretation interpretation interpretation in the second in</li></ul>	1 6	
<ul> <li>utrained singer or some other situation that increases demands on the voice. Nodelises or yets may be seen on the voice creds with this condition.</li> <li><b>107-153.</b> +Res+Adm. Nhich one of the following is most effective in limiting the complications of COPD?</li> <li>A) Pneumococcal vaccination</li> <li>B) Sinoking cessation</li> <li>C) Oral corticosteroids</li> <li>D) Albuterol</li> <li>E) Theophylline</li> <li><b>107-151.</b> Sinoking cessation is the only intervention that has been shown to show the progression of COPD and limit complications. ANSE. Albuterol</li> <li>D) Albuterol</li> <li>E) Theophylline</li> <li><b>107-219.</b> +Res+Adm. A 60-year-old white male comes to your office for evaluation of years. The best diagnostic test for evaluating this problem is bl al-antitryps in antiructic pertide (BNP)</li> <li>D) CT of the chest</li> <li>D) Significant COPD. This generally occurs in mid- to late life.</li> <li><b>108-0038.</b> +Res+Adm. A 66-year-old male smoker is being evaluated for a peristent cough and difficulty breathing. Spirometry continues a fixed obstructive planlog with and FLV to labous tiles or solution. and dyspnea on exercion. They often experience orthopnea several hours after reclining. when fluid mobilizes from the lower extermities.</li> <li><b>069-038.</b> +Res+Adm. A 66-year-old male smoker is being evaluated for a peristent cough and difficulty breathing. Spirometry continues a fixed obstructive planlog with and FLV to labous (Sw or prodiced for size and a fixed obstructive planlog) with and FLV to labous (Sw or prodiced for size and a fixed obstructive shows to emast. Planlog with and should be a priority of care. No existing medications have been shown to most fixed on the couge and should be a priority of care. No existing medications have been shown to most prevent in social prior severe COPD (stage III) his FEV1 (FVC ratio is all should be load down to be effective than couge or severe or operand in the definit or preventions</li></ul>	<ul> <li>10-141. +End+Adm.? A 34-year-old female with a history of bilateral tubal ligation consults you because of excessive body and facial hair. She has a normal body weight, no other signs of virilization, and regular menses. Which one of the following is the most appropriate treatment for her mild hirsutism?</li> <li>A) Spironolactone (Aldactone)</li> <li>B) Leuprolide (Lupron)</li> <li>C) Prednisone</li> <li>D) Metformin (Glucophage)</li> <li>10-035. +Psy+Mhe. A 31-year-old female who is a successful professional photographer complains of hoarseness that started suddenly 3 weeks ago. She says she can remember exactly what day it was, because her divorce became final the next day. The day the problem began, she was only able to whisper from the time she woke up, and she is able to speak only in a weak whisper while relating her history. She does not appear to strain while speaking. She does not smoke, has had no symptoms of an upper respiratory infection, and has no pain, cough, or wheezing. She is on a proton pump inhibitor prescribed by an urgent care provider 2 weeks ago. This has not changed her symptoms. She takes no other medications and has no known allergies. A head and neck examination, including indirect laryngoscopy, is within normal limits. Which one of the following is the most likely diagnosis?</li> <li>A) Muscle tension aphonia</li> <li>B) Laryngopharyngeal reflux</li> <li>C) Spasmodic dysphonia</li> <li>D) Vocal abuse</li> </ul>	Antiandrogens such as spironolactone, along with oral contraceptives, are recommended for treatment of hirsutism in premenopausal women (SOR C). In addition to having side effects, prednisone is only minimally helpful for reducing hirsutism by suppressing adrenal androgens. Leuprolide, although better than placebo, has many side effects and is expensive. Metformin can be used to treat patients with polycystic ovarian syndrome, but this patient does not meet the criteria for this diagnosis. Conversion aphonia. <b>10-035. ANS=E.</b> This patient has conversion aphonia. In this condition, the patient loses his or her spoken voice, but the whispered voice is maintained. The vocal cords appear normal, but if observed closely by an otolaryngologist, there is a loss of vocal cord adduction during phonation, but normal adduction with coughing or throat clearing. This often occurs after a traumatic event (in this case a divorce) (SOR C). Muscle tension aphonia presents with strained, effortful phonation, vocal fatigue, and normal vocal cords. It is caused by excessive laryngeal or extralaryngeal tension associated with a variety of factors, including poor breath control and stress, for example. The patient with laryngopharyngeal reflux presents with a raspy or harsh voice. The hoarseness is usually worse early in the day and improves as the day goes by. There is usually associated heartburn, dysphagia, and/or throat clearing. The patient with spasmodic dysphonia (also known as laryngeal dystonia) has a halting, strangled vocal quality. It is a distinct neuromuscular disorder of unknown cause.
07-219. +Res+Adm. A 60-year-old white male comes to your office for evaluation of a chronic cough productive of large amounts of sputum, accompanied by dyspnea on exertion. He has smoked 2 packs of eigrettes a day for the past 40 years. The best diagnostic test for evaluating this problem is A) arterial blood gases       COPD. 07-219. ANS=E. In patients with suspected COPD, the best diagnostic test is office spirometry. If the FEV1 / IFVC ratio is <70% and the FEV1 is <80% for the chest         B) al -antitrypsin       C) brain natriuretic peptide (BNP)       While cigarette smoking is the largest single risk factor, only 20% of smokers develop clinically significant COPD. The second most common risk factor is al- antitrypsin deficiency, which causes 1% of cases. These patients present with cough, sputum production, and dyspnea on exertion. They often experience orthopnea soon after reclining, whereas patients with heart failure typically experience orthopnea several hours after reclining, whereas patients with heart failure typically experience orthopnea several hours after reclining, whereas patients with the cough, sputum production, and dysol. A combined inhaled corticosteroid and long-acting B-agonist B) A long-acting anticholinergic agent C) Long-term oral corticosteroid and long-acting B-agonist B) A long-acting anticholinergic agent C) Long-term oral corticosteroid and long-acting B-agonist B) Alsola. Alsola +Rep+Adm. A 70-year-old male sees you because of slowly increasing problems with COPD. He has had frequent exacerbations requiring emergency department visits. He currently uses a tioropium (Spiriva) inhaler once a day, as well as an albuterol (Provent). Spirit s vise daily as needed. An examination shows decreased breath sounds throughout, and an oxygen saturation of 92%. Spirometry shows he has severe COPD (stage III); his FEV1 /FVC ratio is 55% of predicted and his FEV1 is t4% of predicted. The most reasonable cha	<ul> <li>07-153. +Res+Adm. Which one of the following is most effective in limiting the complications of COPD?</li> <li>A) Pneumococcal vaccination</li> <li>B) Smoking cessation</li> <li>C) Oral corticosteroids</li> <li>D) Albuterol</li> </ul>	singing or talking. The history usually reveals vocal cord abuse, such as with an untrained singer or some other situation that increases demands on the voice. Nodules or cysts may be seen on the vocal cords with this condition. COPD. 07-153. Smoking cessation is the only intervention that has been shown to slow the progression of COPD and limit complications. ANS=B. Albuterol and theophylline will improve acute problems, but will not slow disease advancement. Corticosteroids are not indicated for chronic management. Although pneumococcal vaccine is administered frequently, there is very little evidence to
<b>08-038.</b> +Res+Adm. A 66-year-old male smoker is being evaluated for a persistent cough and difficulty breathing. Spirometry confirms a fixed obstructive pathology with an FEV1 of about 50% of predicted for size and age. His oxygen saturation is 89%–90% on room air. Which one of the following would be most effective to prevent worsening of this patient's condition? A) A combined inhaled corticosteroid and long-acting B-agonist B) A long-acting anticholinergic agent C) Long-term oral corticosteroids D) Oxygen therapy E) Smoking cessationCOPD. <b>08-038.</b> ANS=E. This patient has moderate to severe COPD. Smoking cessation is the single most important therapeutic intervention in patients with this condition and should be a priority of care. No existing medications have been shown to modify the long-term decline in lung function that is typical of COPD, but smoking cessation does prevent this decline. Long-term use of oxygen in COPD patients who also have chronic, severe hypoxia (<88% saturation) can impore quality of life and prolong survival; however, oxygen cannot prevent further decline in lung function. Long-term use of oral corticosteroids is discouraged because of an unfavorable risk-to-benefit ratio. <b>08-182.</b> +Rep+Adm. A 70-year-old male sees you because of slowly increasing problems with COPD. He has had frequent exacerbations requiring emergency department visits. He currently uses a tiotropium (Spirva) inhaler once a day, as well as an albuterol (Proventil) inhaler, 2 puffs 4 times a day as needed. An examination shows be has severe COPD (stage III); his FEV1 /FVC ratio is 65% of predicted and his FEV1 is 45% of predicted. The most reasonable change in treatment would be to add A) oxygen, 2 L/min while sleeping B) inhaled futicasone (Flovent), 2 puffs twice daily C) oral low-dose prednisone daily D) oral theophylline (Uniphyl) twice daily D) oral theophyl	<ul> <li>07-219. +Res+Adm. A 60-year-old white male comes to your office for evaluation of a chronic cough productive of large amounts of sputum, accompanied by dyspnea on exertion. He has smoked 2 packs of cigarettes a day for the past 40 years. The best diagnostic test for evaluating this problem is</li> <li>A) arterial blood gases</li> <li>B) a1-antitrypsin</li> <li>C) brain natriuretic peptide (BNP)</li> <li>D) CT of the chest</li> </ul>	test is office spirometry. If the FEV1 /FVC ratio is <70% and the FEV1 is <80% of predicted, the patient has COPD. This generally occurs in mid- to late life. While cigarette smoking is the largest single risk factor, only 20% of smokers develop clinically significant COPD. The second most common risk factor is a1-antitrypsin deficiency, which causes 1% of cases. These patients present with cough, sputum production, and dyspnea on exertion. They often experience orthopnea soon after reclining, whereas patients with heart failure typically experience orthopnea several hours after reclining, when fluid mobilizes from the
<ul> <li>08-182. +Rep+Adm. A 70-year-old male sees you because of slowly increasing problems with COPD. He has had frequent exacerbations requiring emergency department visits. He currently uses a tiotropium (Spiriva) inhaler once a day, as well as an albuterol (Proventil) inhaler, 2 puffs 4 times a day as needed. An examination shows decreased breath sounds throughout, and an oxygen saturation of 92%. Spirometry shows he has severe COPD (stage III); his FEV1 /FVC ratio is 65% of predicted and his FEV1 is 45% of predicted. The most reasonable change in treatment would be to add</li> <li>A) oxygen, 2 L/min while sleeping</li> <li>B) inhaled fluticasone (Flovent), 2 puffs twice daily</li> <li>C) oral low-dose prednisone daily</li> <li>D) oral theophylline (Uniphyl) twice daily</li> <li>COPD. 08-182. ANS=B. This patient is suffering from severe COPD (stage III) and has a history of frequent exacerbations. The addition of a corticosteroid inhaler for patients with severe disease has been found to significantly decrease the number of exacerbations, but has no effect on overall mortality. Side effects of oral candidiasis and easy bruising of the skin are increased. Continuous oxygen has been shown to improve overall mortality and endurance in patients with an oxygen saturation of 88% or less, but has not been shown to improve quality of life in those with mild hypoxemia or if used only at night. Chronic oral prednisone daily</li> <li>D) oral theophylline (Uniphyl) twice daily</li> <li>D) oral theophylline (</li></ul>	<ul> <li>persistent cough and difficulty breathing. Spirometry confirms a fixed obstructive pathology with an FEV1 of about 50% of predicted for size and age. His oxygen saturation is 89%–90% on room air. Which one of the following would be most effective to prevent worsening of this patient's condition?</li> <li>A) A combined inhaled corticosteroid and long-acting B-agonist</li> <li>B) A long-acting anticholinergic agent</li> <li>C) Long-term oral corticosteroids</li> <li>D) Oxygen therapy</li> </ul>	COPD. <b>08-038. ANS=E.</b> This patient has moderate to severe COPD. Smoking cessation is the single most important therapeutic intervention in patients with this condition and should be a priority of care. No existing medications have been shown to modify the long-term decline in lung function that is typical of COPD, but smoking cessation does prevent this decline. Long-term use of oxygen in COPD patients who also have chronic, severe hypoxia (<88% saturation) can improve quality of life and prolong survival; however, oxygen cannot prevent further decline in lung function. Long-term use of oral corticosteroids is
reserved for carefully selected parents only.	problems with COPD. He has had frequent exacerbations requiring emergency department visits. He currently uses a tiotropium (Spiriva) inhaler once a day, as well as an albuterol (Proventil) inhaler, 2 puffs 4 times a day as needed. An examination shows decreased breath sounds throughout, and an oxygen saturation of 92%. Spirometry shows he has severe COPD (stage III); his FEV1 /FVC ratio is 65% of predicted and his FEV1 is 45% of predicted. The most reasonable change in treatment would be to add A) oxygen, 2 L/min while sleeping B) inhaled fluticasone (Flovent), 2 puffs twice daily C) oral low-dose prednisone daily	and has a history of frequent exacerbations. The addition of a corticosteroid inhaler for patients with severe disease has been found to significantly decrease the number of exacerbations, but has no effect on overall mortality. Side effects of oral candidiasis and easy bruising of the skin are increased. Continuous oxygen has been shown to improve overall mortality and endurance in patients with an oxygen saturation of 88% or less, but has not been shown to improve quality of life in those with mild hypoxemia or if used only at night. Oral prednisone has been shown to be effective when used to treat acute exacerbations, but when used on a chronic basis it is no more effective than corticosteroid inhalers. Chronic oral prednisone is also associated with significant side effects, and therefore is not generally recommended. Oral theophylline has not been shown to be of benefit in either preventing exacerbations or improving quality of life, and has significant
09-086. +Res+Adm. Which one of the following is recommended in the treatment of all four stages of COPD, from mild through very severe? A) Scheduled oral mucolytics such as N-acetylcysteine (Mucomyst) B) Scheduled inhaled corticosteroids such as fluticasone (Flovent HFA) C) Scheduled long-acting       COPD. 09-086. ANS=E. Short-acting bronchodilators such as albuterol and ipratropium are recommended on an as-needed basis for treatment of breathlessness in stage I (mild) COPD. They are also recommended for as- needed use in stage II (moderate), stage III (severe), and stage IV (very         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 32 of 170	of all four stages of COPD, from mild through very severe? A) Scheduled oral mucolytics such as N-acetylcysteine (Mucomyst) B) Scheduled inhaled corticosteroids such as fluticasone (Flovent HFA) C) Scheduled long-acting	COPD. <b>09-086.</b> ANS=E. <u>Short-acting bronchodilators</u> such as <u>albuterol and</u> <u>ipratropium</u> are recommended on an as-needed basis for treatment of breathlessness in stage I (mild) COPD. They are also recommended for as- needed use in stage II (moderate), stage III (severe), and stage IV (very

Mario's ITE database V2010 007	Document conv for the sale personal use of Dr. Mario Alberto Jimenez
<ul> <li>Mario's ITE database V2010.007</li> <li>inhaled bronchodilators such as salmeterol (Serevent) D) Scheduled long-acting anticholinergics such as tiotropium (Spiriva) E) Short-acting inhaled B2-agonists such as albuterol (Ventolin HFA), as needed for dyspnea</li> <li><b>09-152.</b> +Res+Adm. The use of a corticosteroid inhaler in patients with stable chronic obstructive lung disease has been shown to <ul> <li>A) increase the risk for osteoporotic fracture</li> <li>B) increase the risk for pneumonia</li> <li>C) produce no change in patients' perceptions of quality of life</li> <li>D) reduce overall mortality</li> </ul> </li> <li><b>10-004.</b> +Res+Adm.?* A 52-year-old female with a 60-pack-year history of cigarette smoking and known COPD presents with a 1-week history of increasing purulent sputum production and shortness of breath on exertion. Which one of the following is true regarding the management of this problem? <ul> <li>A) Antibiotics should be prescribed</li> <li>B) Intravenous corticosteroids are superior to oral corticosteroids</li> <li>C) Inhaled corticosteroids should be started or the dosage increased</li> <li>D) Levalbuterol (Xopenex) is superior to albuterol</li> <li>E) Acetylcysteine should be given if the patient is hospitalized</li> </ul> </li> </ul>	Document copy for the sole personal use of Dr. Mario Alberto Jimenez severe) COPD. Long-acting bronchodilators such as salmeterol or tiotropium are recommended for stages II, III, and IV. Inhaled corticosteroids are recommended for stages III and IV. Mucolytics can be considered for stages III and IV. COPD. 09-152. COPD is the fourth leading cause of death in the United States. ANS=B. Stopping smoking and the use of continuous oxygen, when necessary, are the main interventions that have been shown to lessen overall mortality in this illness. The use of corticosteroid inhalers for COPD has received mixed reviews. Studies show an increase in the incidence of pneumonia, which is directly related to the dosage. There are also concerns about the potential for an increase in fractures; however, a meta-analysis of multiple studies has not shown this to be the case. There has been no improvement in overall mortality with the use of the corticosteroidinhalers; nevertheless, on questionnaires patients indicate an improvement in quality of life and fewer bronchitis exacerbations. COPD 10-004. <u>Antibiotic use in moderately or severely ill patients with a</u> <u>COPD exacerbation reduces the risk of treatment failures of death, and may</u> <u>also help patients with mild exacerbations</u> . ANS=A. Brief courses of systemic corticosteroids shorten hospital stays and decrease treatment failures. Studies have not shown a difference between oral and intravenous corticosteroids. Inhaled corticosteroids are not helpful in the management of an acute exacerbation. Levalbuterol and albuterol have similar benefits and adverse effects. Acetylcysteine, a mucolytic agent, has not been shown to be helpful for routine treatment of COPD exacerbations. <u>Uptodate:</u> Antibiotic treatment of acute exacerbations of COPD in hospitalized patients:
	Moderate or severe exacerbation         At least 2 of the 3 cardinal symptoms:         Increased dyspnea         Increased sputum volume         Increased sputum purulence         AND         Complicated COPD 1 or more risk factors:         Age >65 years         FEV1 <50 percent predicted
	Yes No Obtain sputum gram stain and culture and give: Levofloxacin 750 mg PO or IV once daily <b>OR</b> Moxifloxacin PO or IV <b>OR</b>
	Obtain sputum gram stain and culture and give: Levofloxacin 750 mg PO or IV once daily <b>OR</b> Moxifloxacin PO or
<ul> <li>10-080. +Res+Adm. A 60-year-old female with moderate COPD presents with ongoing dyspnea in spite of treatment with both an inhaled long-acting B-agonist and a long-acting anticholinergic agent. Your 2 evaluation reveals an oxygen saturation of 88% and a PaO of 55%. Echocardiography reveals a normal ejection fraction but moderate pulmonary hypertension. Which one of the following would be most appropriate at this time?</li> <li>A) No changes in the current medical regimen</li> <li>B) Supplemental oxygen</li> <li>C) Low-dose sildenafil (Revatio)</li> <li>D) Nifedipine (Procardia)</li> </ul>	Obtain sputum gram stain and culture and give: Levofloxacin 750 mg PO or IV once daily OR Cefepime IV OR Ceftazidime IV OR Piperacillin-tazobactam 4.5 g IV every 6 hours

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
E) Low-dose prednisone	
10-209. +Res+Adm.>L A 55-year-old male presents to your office for evaluation	COPD. 10-209. COPD has several symptoms, including poor exercise tolerance,
of increasing dyspnea with exertion over the past 2 weeks. He has smoked 2 packs	chronic cough, sputum production, dyspnea, and signs of right-sided heart failure.
of cigarettes per day since the age of 20. He has had a chronic cough for years,	ANS=C. The most common etiology is cigarette smoking. A patient with any
along with daily sputum production. He was given an albuterol	combination of two of these findings, such as a 70-pack-year history of smoking,
inhaler for wheezing in the past, which he uses intermittently. On examination he	decreased breath sounds, or a history of COPD, likely has airflow obstruction,
has a severe decrease in breath sounds, no evidence of jugular venous distention,	defined as an FEV1 $\leq$ 60% of the predicted value. In stable COPD, treatment is
no cardiac murmur, and no peripheral edema. A chest film shows hyperinflation,	reserved for patients who have symptoms and airflow obstruction. Treatment
but no infiltrates or pleural effusion. 1 Office spirometry shows that his FEV is only 55% of the predicted value. You consider using inhaled corticosteroids as	options for monotherapy are all similar in effectiveness and include long-acting inhaled anticholinergics, long-acting B-agonists, and inhaled corticosteroids.
part of the treatment regimen for this patient. This	Inhaled corticosteroids will not reduce mortality or affect long-term progression
has been shown to	of COPD. However, they do reduce the number of exacerbations and the rate of
A) increase cataract formation	decline in the quality of life. There appears to be no increase in cataract formation
B) increase the incidence of fracture	or rate of fracture. These agents do have side effects, including candidal infection
C) increase the risk of pneumonia	of the oropharynx, hoarseness, and an increased risk of developing pneumonia.
D) slow the progression of the disease	
E) improve overall mortality from the disease	
<b>10-232.</b> +Res+Adm.* A 56-year-old female has a 35-pack-year smoking history.	COPD. <b>10-232.</b> COPD is the fourth leading cause of death in the United States.
She is concerned that she may have COPD, although she has no history of chronic	ANS=D. The diagnosis is made by documenting airflow obstruction in the
cough, chest pain, or other pulmonary symptoms. Her family history is	presence of symptoms and/or risk factors. Airflow limitation cannot be accurately
remarkable for a mother with COPD who was a smoker, but there is no family	predicted by the history and examination. The U.S. Preventive Services Task
history of a1-antitrypsin disease. Which one of the following would you	Force recently concluded that there is "moderate certainty" that screening
recommend with regard to screening spirometry?	asymptomatic patients for COPD using spirometry has little or no benefit and is
A) Screening, based on her age B) Screening, based on her family history	not recommended. This recommendation applies to otherwise healthy individuals without a family history of al-antitrypsin disease.
C) Screening, based on her smoking history	without a failing motory of a t-anticrypoin disease.
D) No screening, based on lack of benefit	
<b>07-162.</b> +Car+Com. Coronary arteriography would be indicated for which one of	Coronary arteriography. 07-162. Indication. ANS=A. Patients with careers that
the following?	involve the safety of others (e.g., police officers and pilots) who have
A) A 45-year-old policeman with intermittent chest discomfort suggestive of	questionable symptoms and nondiagnostic stress testing, with reasonable
angina pectoris who has a negative exercise stress test	doubt about significant coronary artery disease, are candidates for
B) A 38-year-old asymptomatic bank officer with a family history of "heart	arteriography. A young male in otherwise good health does not need additional
disease" who is to undergo hernia repair	cardiac evaluation. Exercise stress testing might be indicated for the patient with
C) A 72-year-old female with hypertension, asymptomatic PVCs on EKG,	worsening of her typical pain if her symptoms are unexplained by evaluation of
hyperlipidemia for which she refuses treatment, and worsening of her	the gastrointestinal tract. Patients with mitral valve prolapse do not usually require
longstanding esophageal reflux pain	catheterization for diagnosis of chest pain.
D) A 57-year-old anxious female with sharp anterior chest pain and a mid-systolic	
click and murmur <b>10-009.</b> +Car+Adm. Which one of the following is the recommended duration of	Coronary artery stent. <b>10-009. ANS=E.</b> The recommended duration of dual
dual antiplatelet therapy after placement of a drug-eluting coronary artery stent?	antiplatelet therapy following placement of a drug-eluting coronary artery stent is
A) 1 week	1 year (SOR C). The recommended dosages of dual antiplatelet therapy are
B) 1 month	aspirin, 162–325 mg, and clopidogrel, 75 mg, or prasugrel, 10 mg. Ticlopidine is
C) 2 months	an option for patients who do not tolerate clopidogrel or prasugrel. The minimum
D) 3 months	recommended duration of dual antiplatelet therapy is 1 month with bare-metal
E) 1 year	stents, 3 months with sirolimus-eluting stents, and 6 months with other drug-
	eluting stents.
<b>08-153.</b> +Res+Cca. Which one of the following is recommended for the treatment	Cough and cold products. <b>08-153.</b> Cough and cold in children < <b>2y/o. ANS=D.</b>
of cough and cold symptoms in children younger than 2 years of age? A) Cough	No medication available in the United States has been shown to effectively treat
suppressants and humidified air B) Intranasal decongestants C) Nonsedating	cough or cold symptoms in children younger than 2 years of age. However, many
antihistamines and decongestants D) Nasal saline with bulb suction E) Antibiotics	agents are commonly prescribed despite reports of numerous minor, and some
and hydration	serious, adverse effects. For this reason, the American Academy of Pediatrics and
	the American Academy of Family Physicians recommend using only nasal saline, hulb suction humidified air and good hydration in children younger than 2 years
	bulb suction, humidified air, and good hydration in children younger than 2 years
<b>10-118.</b> +Res+Cca.* The FDA recommends that over-the-counter cough and cold	of age. Cough and cold products. <b>10-118. ANS=B.</b> In 2008 the FDA issued a public
products not be used in children below the age of	health advisory for parents and caregivers, recommending that over-the-counter
A) 1 year	cough and cold products not be used to treat infants and children younger than 2
B) 2 years	years of age, because serious and potentially life-threatening side effects can
C) 3 years	occur from such use. These products include decongestants, expectorants,
D) 4 years	antihistamines, and antitussives.
E) 5 years	
07-007. +Pbs+Com+Cel. An elderly female who has been your patient for several	CPR. 07-007. Futile treatments. ANS=D. An adult patient or their legally
years is discovered lying on the floor of her kitchen by a Meals-on-Wheels	authorized representative has the right to refuse any medical treatment, regardless
volunteer. She is transported to the hospital in an unresponsive state. After a	of its likelihood of success; however, there is no legal right to receive any and all
thorough evaluation, you diagnose a massive cerebral infarct. On several previous	treatment demanded. When patients have explicit advance directives in writing,
occasions the patient verbalized to you her desire to not be subjected to life-	their wishes are clear. When no written document exists, but the patient's
prolonging treatments should she ever be rendered incapacitated; however, she	desire is well known to his or her physician, the physician is ethically bound to hence these wickes. This responsibility must be belonged against the
declined your suggestion that she confirm this in writing. The patient is admitted to the hospital with "do not resuscitate" (DNR) orders and supportive measures	to honor these wishes. This responsibility must be balanced against the physician's ethical obligation not to perform futile treatments of no benefit to
are instituted. A neurology consultant evaluates her and agrees that her condition	the patient. A family member acting as a medical decision-making proxy is
is terminal and irreversible. The patient's nephew is angered by the DNR status	obligated to represent what they believe to be the patient's wishes, even in the
and, noting that she has Medicare coverage, demands every medical treatment that	face of conflict with their personal beliefs. This case highlights two commonly
might prolong his aunt's life, including resuscitation. Which one of the following	encountered issues: honoring the patient's wishes when there is conflicting
would be the best course of action in terms of legality and ethics? A) Institution of	evidence of what their wishes may be, and withholding medically futile
aggressive medical therapies, including full resuscitation in the event of cardiac	treatment. In this case, the futility of the patient's condition overrides any
Convrighted Material ITE Perconal Notes Not for Sale Page 34 of 170	Mario A. Jimanez, M.D., B.S.F.F. "Jesus died for us and teaches us that it is in giving that wa

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
arrest and ventilator support in the event of respiratory arrest B) Continuation of a supportive treatment plan, provided full resuscitation is initiated in the event of cardiac arrest and ventilator support is provided in the event of respiratory arrest C) Performance of full CPR for cardiopulmonary arrest, but no ventilator support for respiratory failure D) Continuation of the current treatment plan	confusion as to her wishes, and the admission treatment plan is the most appropriate. Naturally, it would be best to discuss this with the nephew and attempt to arrive at a consensus, with the patient's best interest being the primary concern.
<b>09-187.</b> +Non+Euc. What is the recommended compression-to-breath ratio for basic life support with a single rescuer for a 2-year-old child? A) 10:2 B) 15:2 C) 20:2 D) 25:2 E) 30:2	CPR. 09-187. ANS=E. For a single rescuer performing CPR on a 2-year-old, the ratio is 30 compressions to 2 ventilations. The compression rate should be approximately 100 beats/min, and the chest should be compressed one-third to one-half its depth with each compression. Compressions can be accomplished with one hand, the heel of one or both hands, or the heel of one hand with the second hand on top.
<ul> <li>10-026. +Non+Euc.&gt;L An obese, hypertensive 53-year-old physician suffers a cardiac arrest while making rounds. He is resuscitated after 15 minutes of CPR, but remains comatose. Which one of the following is associated with the lowest likelihood of neurologic recovery in this situation?</li> <li>A) Duration of CPR &gt;10 minutes</li> <li>B) No pupillary light reflex at 30 minutes</li> <li>C) No corneal reflex at 2 hours</li> <li>D) No motor response to pain at 6 hours</li> </ul>	CPR. 10-026. Cardiac arrest. 10-026. lowest likelihood of neurologic recovery. ANS=E. It is difficult to establish a prognosis in a comatose patient after a cardiac arrest. The duration of CPR is not a factor, and the absence of pupillary and corneal reflexes, as well as motor responses to pain, are not reliable predictors before 72 hours. Myoclonic status epilepticus at 24 hours suggests no possibility of a recovery.
<ul> <li>E) Myoclonic status epilepticus at 24 hours</li> <li>08-229. Rep+Cca. A previously healthy 20-month-old female is brought to the urgent-care clinic during the evening with a barking cough. On examination her rectal temperature is 37.9°C (100.2°F), respiratory 2 rate 18/min, heart rate 120 beats/min, and O saturation 94%. She has stridor, with mild substernal retractions only when her temperature was taken.</li> <li>Which one of the following would be most appropriate at this point?</li> <li>A) Dexamethasone, 0.6 mg/kg orally or intramuscularly as a single dose</li> <li>B) Guaifenesin/pseudoephedrine elixir orally until symptoms improve</li> <li>C) Azithromycin (Zithromax) orally for 5 days</li> <li>D) Observation in the clinic, and if there is improvement, a 5-day course of dexamethasone</li> </ul>	Croup. <b>08-229.</b> Croup can be classified as spasmodic croup, laryngotracheitis, laryngotracheobronchitis (LTB), laryngotracheobroncheopneumonia (LTBP), or laryngeal diphtheria. <b>ANS=A</b> . Mild croup is manifested by an occasional barking cough with no stridor at rest, and mild or absent intercostal retractions. Moderate croup presents with a more frequent barking cough, stridor with suprasternal and sternal retractions at rest, but no agitation. Severe croup includes more prominent inspiratory and expiratory stridor with agitation and distress. There is good evidence that corticosteroids produce significant improvement. The regimens studied most frequently have consisted of single-dose dexamethasone (0.6 mg/kg orally or intramuscularly), with some studies including up to four more doses over a 2-day period. Longer courses of corticosteroids have not proven to be more effective and may be harmful, leading to secondary infections. Racemic epinephrine by nebulization is indicated in severe croup. Antitussives and decongestants have not been studied and are not recommended. Antibiotics are indicated in LTB and LTBP, which can be diagnosed on the basis of crackles and wheezing on examination, or by an abnormal chest radiograph. Laryngotracheitis can sometimes be associated with a bacterial infection, but should be suspected only after a patient does not improve with corticosteroids and epinephrine.
<b>09-007.</b> +Res+Euc. Which one of the following is true concerning the use of dexamethasone to treat acute laryngotracheitis (croup)? A) A single dose is adequate for treatment B) It commonly leads to a secondary bacterial infection due to immunosuppression C) It increases the need for hospitalization D) It is indicated only for patients with severe croup	Croup. 09-007. Ans: A. Treatment with corticosteroids is now routinely recommended for acute laryngotracheitis (croup). A single dose of dexamethasone, either orally or intramuscularly, is appropriate. Prolonged courses of corticosteroids provide no additional benefit and may lead to secondary bacterial or fungal infections. Secondary infections rarely occur with single-dose treatment. Corticosteroid therapy shortens emergency department stays and decreases the need for return visits and hospitalizations. It is indicated for patients with croup of any severity.
<ul> <li>09-211. +Res+Cca. A 2-year-old Hispanic male with a 3-day history of nasal congestion presents with a barking cough and hoarseness. He is afebrile. The examination reveals tachypnea, inspiratory and expiratory stridor, noticeable intercostal retractions, and good color. Which one of the following is indicated?</li> <li>A) Albuterol syrup and the use of a humidifier</li> <li>B) Inhaled albuterol (Proventil, Ventolin)</li> <li>C) Aerosolized epinephrine and intramuscular dexamethasone</li> <li>D) Visualization of the epiglottis, and ceftriaxone (Rocephin)</li> </ul>	Croup. <b>09-211.</b> Laryngotracheobronchitis, viral or croup. <b>ANS=C.</b> This child has a history and physical findings typical of viral laryngotracheobronchitis, or croup. In rare instances, this illness can be complicated by critical upper airway obstruction. The symptoms of cough, respiratory stridor, and distress result from edema of the subglottic portion of the upper airway. Humidification of inspired air is sometimes beneficial, but the child should not be sent home until improvement is demonstrated. Because this child has stridor and intercostal retractions, aerosolized epinephrine is indicated, along with intramuscular dexamethasone, and hospitalization may be required for observation and continued treatment. Antibiotics do not have a role in the treatment of viral croup, and attempted visualization of the epiglottis is not indicated since it will increase the child's anxiety and worsen the symptoms.
<b>07-106.</b> +Pbc+Adm+Com. A healthy 45-year-old male comes to your office for a routine visit. Findings are normal on a review of systems and physical examination. After you discuss the findings and provide routine counseling about a healthy lifestyle, the patient asks if he should have a full-body CT scan just to make sure he is healthy. Which one of the following would be appropriate advice? A) This is a reasonable option, but most insurance companies will not pay for it B) The chance of finding an abnormality is very low, but for a person anxious about his or her health the reassurance is worth the expense C) The amount of radiation exposure from low-dose full-body CT is minimal D) In a healthy patient, incidental findings will lead to unnecessary biopsies, anxiety, and significant radiation exposure	CT scan. <b>07-106.</b> recommendation. <b>ANS=D.</b> With financial incentives driving the health care industry, full-body CT has been promoted by private scanning facilities. However, the U.S. Preventive Services Task Force, the American College of Radiology, and many other organizations that have studied full-body CT screening are opposed to it. No study has shown the final outcome of such screening to be in the best interest of the patient, and it may actually be detrimental. Although the initial cost of \$1000 may seem high by itself, the final cost also includes the expense of further testing due to false-positive findings, the time taken off work for the initial test, and the time required for any further tests and consultations that might take place. Various studies have shown that significant disease is found in $1.9\%$ – $2.0\%$ of those scanned, yet $87\%$ – $91\%$ of all patients scanned will have positive findings are benign. Findings such as noncalcified pulmonary nodules will either necessitate procedures such as lung needle biopsies or wedge resections, or will be left alone, causing increased anxiety to the patient and also affecting the patient's future insurability. The radiation exposure from a full-body CT scan is estimated to be equivalent to 500

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>10-135. +Pbc+Com.&gt;L Which one of the following is true regarding the risk of inducing cancer with CT scanning?</li> <li>A) CT of the chest is associated with a greater risk than CT of the head</li> <li>B) The risk increases with age at the time of the scan</li> <li>C) Males have a greater risk of ultimately developing CT-induced lung cancer than females</li> <li>D) Current techniques with rapid scanners make the risk comparable to that associated with standard radiographs of the same area</li> <li>E) The risk in neonates is markedly reduced because of the efficiency of DNA repair processes at this age</li> </ul>	chest radiographs, or 100 chest radiographs for low-dose scanning. CT scan. <b>10-135.</b> risk. <b>ANS=A.</b> CT of the chest or abdomen leads to significantly more radiation exposure and cancer risk than CT of the brain. Younger patients, including neonates, have a greater lifetime risk of developing cancer after radiation exposure, and CT imaging carries substantially more risk than plain radiographs of the same area. Women are at greater risk for developing lung cancer after a chest CT than men, and CT also increases their risk of developing breast cancer.
<ul> <li>07-091. +Pbs+Com. Cultural traditions and ceremonies sometimes mandate actions that conflict with standard treatment regimens. Which one of the following patients would require modification of a medication schedule?</li> <li>A) A Malaysian male experiencing <i>koro</i></li> <li>B) A Muslim during Ramadan</li> <li>C) A Mexican affected with <i>bilis</i></li> <li>D) A Jehovah's Witness observing his birthday</li> <li>E) A Chinese-American grandmother receiving cupping treatments</li> </ul>	Cultural sensitivity. <b>07-091. ANS=B.</b> In a nation as diverse as the United States, cultural sensitivity on the part of the prescribing physician is an essential component for negotiating a successful therapeutic regimen. Culture-based belief systems can be quite complex and confusing to those unfamiliar with them, but this is often overcome when the physician demonstrates sincere interest, understanding, and respect for each patient. The month-long daytime fast observed during Ramadan generally requires an adaptive dosing schedule. Jehovah's Witnesses do not, as a rule, celebrate birthdays. Cupping treatment does not affect timing of medications. <i>Koro</i> is a delusional state in which the affected man has a sensation that his penis is shrivelling or being drawn into his addomen. It would not affect a medication regimen. <i>Bilis</i> is an outburst of anger.
<b>08-154.</b> +Pbs+Com. The Current Procedural Terminology (CPT) code to document a patient encounter can be determined by the amount of face-to-face time spent with the patient when A) the office visit exceeds 1 hour B) counseling or coordinating care accounts for more than 50% of the face-to-face time spent with the patient C) the intensity of the visit supports a higher code than is supported by the level of history, examination, and medical decision making D) a comprehensive history and examination or complex medical decision making is conducted E) considerable time is spent outside the office visit coordinating prior authorizations or referrals on behalf of the patient	Current Procedural Terminology (CPT). <b>08-154. ANS=B.</b> The times published for Current Procedural Terminology codes are typical for each level of office visit, but there is no requirement associated with them unless counseling or coordination of care accounts for more than 50% of the face-to-face time of the encounter. In such cases physicians are able to code on the basis of time.
<ul> <li>08-074. +Int+Cca. A 5-year-old white male has an itchy lesion on his right foot. He often plays barefoot in a city park that is subject to frequent flooding. The lesion is located dorsally between the web of his right third and fourth toes, and extends toward the ankle. It measures approximately 3 cm in length, is erythematous, and has a serpiginous track. The remainder of his examination is within normal limits. Which one of the following is the most likely cause of these findings?</li> <li>A) Dog or cat hookworm (<i>Ancylostoma</i> species)</li> <li>B) Dog or other canid tapeworm (<i>Echinococcus granulosus</i>)</li> <li>C) Cat protozoa (<i>Toxoplasma gondii</i>)</li> <li>D) Dog or cat roundworm (<i>Toxocara canis</i> or <i>T. mystax</i>)</li> </ul>	Cutaneous larva migrans. <b>08-074. ANS=A.</b> This patient has cutaneous larva migrans, a common condition caused by dog and cat hookworms. Fecal matter deposited on soil or sand may contain hookworm eggs that hatch and release larvae, which are infective if they penetrate the skin. Walking barefoot on contaminated ground can lead to infection. Echinococcosis (hydatid disease) is caused by the cestodes (tapeworms) <i>Echinococcus granulosus</i> and <i>Echinococcus multilocularis</i> , found in dogs and other canids. It infects humans who ingest eggs that are shed in the animal's feces and results in slow-growing cysts in the liver or lungs, and occasionally in the brain, bones, or heart. Toxoplasmosis is caused by the protozoa <i>Toxoplasma gondii</i> , found in cat feces. Humans can contract it from litter boxes or feces-contaminated soil, or by consuming infected undercooked meat. It can be asymptomatic, or it may cause cervical lymphadenopathy, a mononucleosis-like illness; it can also lead to a serious congenital infection if the mother is infected during pregnancy, especially during the first trimester. Toxocariasis due to <i>Toxocara canis</i> and <i>Toxocara canis</i> case visceral or ocular larva migrans in children who ingest soil contaminated with animal feces that contains parasite eggs, often found in areas such as playgrounds and sandboxes.
<ul> <li>09-160. +Non+Adm. The induction or inhibition of the cytochrome P450 (CYP) enzyme is responsible for many adverse drug reactions. Which one of the following is an <i>inducer</i> of the cytochrome P450 enzyme?</li> <li>A) Ciprofloxacin (Cipro)</li> <li>B) Fluconazole (Diflucan)</li> <li>C) Phenytoin (Dilantin)</li> <li>D) Clarithromycin (Biaxin)</li> <li>E) Grapefruit juice</li> </ul>	Cytochrome P450. 09-160. phenytoin. ANS=C. All of the drugs listed are inhibitors of the cytochrome P450 enzyme except phenytoin, which is a potent inducer. Grapefruit juice is also a cytochrome P450 enzyme inhibitor.         Inducers       Inhibitors         Inducers       Inhibitors         Quinidine*       Isoniazid         Barbiturates       Sulfonamides         Phenytoin       Cimetidine         Shakes.       Rifampin         Ketoconazole       Graseofulvin         Grabamazepine       Grapefruit juice         St. John's wort       from Eating Grapefruit.
<ul> <li>10-115. +Pbc+Com.&gt;L* Which one of the following is true regarding death certificates?</li> <li>A) The immediate cause of death is the final or terminal cause of death, such as cardiac arrest</li> <li>B) A physician can certify a death from a natural cause but a coroner or medical examiner must certify a death due to any other cause</li> <li>C) In a case of unknown or probable cause of death, the manner of death is designated as "uncertain"</li> <li>D) Death certificates are part of the patient's medical record and, as such, are confidential and regulated by HIPAA laws</li> </ul>	*Quinidine can both induce and inhibit different isoforms of P-450. Induction is the more important effect. Death certificates. <b>10-115. ANS=B.</b> It would be difficult to overstate the importance of death certificates, especially in an era of increasing reliance on evidence-based medicine, yet physicians receive inadequate training in this important area, and their performance on this task remains less than ideal. Death certificates are the primary tool for measuring the mortality rate and its many ramifications in socioeconomic matters such as research funding, estate settlement, financial matters, and other legal concerns. Most problems with death certificates stem from a failure to complete them correctly. Notably, one study showed a 50% decrease in errors after primary care physicians attended a 75- minute educational session. Only coroners and medical examiners can complete a
E) In a case of death due to an accidental fall, the immediate attending physician Copyrighted Material. ITE Personal Notes. Not for Sale. Page 36 of 170	death certificate when the manner of death is not natural. The immediate cause of Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
must complete the death certificate	death is a specific etiology, not a general concept. "Uncertain" is not a manner of death, but "undetermined" may be used by coroners and medical examiners. The death certificate is a public document when filed.
<ul> <li>10-201. +Non+Cca.&gt;L* A 26-month-old child presents with a 2-day history of 6–8 loose stools per day and a low-grade fever. When evaluating the child to determine whether he is dehydrated, which one of the following would NOT be useful?</li> <li>A) Skin turgor</li> <li>B) Capillary refill time</li> <li>C) Respiratory rate and pattern</li> <li>D) The BUN/creatinine ratio</li> <li>E) The serum bicarbonate level</li> </ul>	Dehydration. <b>10-201.</b> capillary refill time. <b>ANS=D.</b> <u>The most useful findings for</u> <u>identifying dehydration are prolonged capillary refill time, abnormal skin</u> <u>turgor, and abnormal respiratory pattern</u> (SOR C). <u>Capillary refill time is</u> <u>not affected by fever and should be less than 2 seconds.</u> Skin recoil is normally instantaneous, but recoil time increases linearly with the degree of dehydration. The respiratory pattern should be compared with age-specific normal values, but will be increased and sometimes labored, depending on the degree of dehydration. <u>Unlike in adults, calculation of the BUN/creatinine ratio is not useful in</u> <u>children.</u> Although the normal BUN level is the same for children and adults, the normal serum creatinine level changes with age in children. In combination with other clinical indicators, a low serum bicarbonate level (<17 mmol/L) is helpful in identifying children who are dehydrated, and a level <13 mmol/L is
<b>07-010.</b> +Neu+Adm. Which one of the following is the leading risk factor for delirium? A) Alcohol abuse B) Depression C) Dementia D) Malnutrition E) Stroke	associated with an increased risk of failure of outpatient rehydration efforts. Delirium. 07-010. ANS=C. The cause of delirium is typically multifactorial. The development of delirium involves the complex interaction between the vulnerable patient (one with predisposing factors) and exposure to precipitating factors. Delirium affects 10%–30% of hospitalized patients who are medically ill. The prevalence is even higher in certain subgroups. For example, 25% of hospitalized patients with cancer, 30%–40% of hospitalized patients with HIV infection, and more than 50% of postoperative patients develop delirium during hospitalization. Among nursing-home residents older than 75, up to 60% may have delirium at any time. Dementia is the leading risk factor for delirium, and fully two-thirds of delirium cases occur in patients with dementia. The underlying vulnerability of the brain in patients with dementia may predispose them to the development of delirium as a result of insults related to acute medical illnesses, medications, or environmental changes. Unless the physician recognizes that dementia is a risk factor for delirium, the confusion and agitation associated with delirium can mistakenly be attributed to preexisting dementia. This can lead to a failure to search for underlying medical conditions or to discontinue medications that may be causing the delirium.
<ul> <li>09-161. +Psy+Cel. A 72-year-old Hispanic female with moderately severe Alzheimer's disease is hospitalized for treatment of a fracture of the left humerus. The first night after admission she becomes confused and agitated. The most appropriate management at this point is which one of the following?</li> <li>A) Physical restraints</li> <li>B) Benzodiazepines for agitation</li> <li>C) Meperidol (Demerol) for pain control</li> <li>D) Moving the patient to the intensive-care unit for better monitoring</li> <li>E) Having a bedsitter or family member stay in the room to reassure and orient the patient</li> </ul>	Delirium. 09-161. Alzheimer's disease. ANS=E. Delirium is a frequent complication of hospital admission in older patients, especially those with preexisting dementia. Orientation and reassurance in a quiet environment will usually be effective in treating the confusion and agitation, once serious causes of the delirium have been ruled out. Benzodiazepines and meperidol have been reported to cause delirium. Physical restraints and restrictive environments (e.g., intensive-care units) can predispose to delirium and are best avoided if possible.
<b>09-188.</b> +Psy+Mhe. Which one of the following is associated with an increased risk of delirium in hospitalized patients? A) Not having family members present at the time of admission B) Vision or hearing impairment C) Repeated reorientation for patients with cognitive impairment D) Early mobilization	Delirium. 09-188. ANS=B. Delirium occurs in 11%–42% of hospitalized patients. Risk factors for delirium in hospitalized patients include vision impairment, hearing impairment, dehydration, immobility, cognitive impairment, and sleep deprivation. Repeated reorientation of patients with cognitive impairment, early mobilization, and minimizing unnecessary noise or stimulation are all effective interventions for reducing the risk of delirium in hospitalized patients. Not having family members available at the time of admission has no effect on the incidence of delirium.
<b>07-022.</b> +Psy+Mhe. Which one of the following is true regarding placement of a percutaneous endoscopic gastrostomy (PEG) tube in severely demented patients? A) Survival is prolonged B) Aspiration risk is reduced C) Pressure ulcer risk is increased D) Patient comfort is enhanced E) Nutritional status is improved	Dementia. 07-022. ANS=C. Nearly 5 million adults in the United States have dementia and that number is expected to quadruple to 22 million in 50 years. Percutaneous endoscopic gastrostomy (PEG) tubes are increasingly placed, despite a paucity of evidence for their benefit. Bedfast, incontinent, demented patients with PEG tubes are more likely to be restrained, while at the same time producing more urine, thereby increasing the risk for pressure ulcers. Neither survival nor nutritional status has been found to be improved through the use of PEG tubes. Since stomach contents and saliva cannot be kept out of the airways after PEG placement, aspiration risk is not reduced. Tube-fed patients may be denied the pleasure of eating and/or made uncomfortable by the tube or by frequent repositioning or restraining. No studies suggest that tube feeding makes demented patients more comfortable.
<ul> <li>07-158. +Pbc+Cel. An elderly male with mild dementia is involved in a motor vehicle accident, and his son is concerned that it may no longer be safe for him to drive. Which one of the following has the legal authority to revoke or restrict this patient's driver's license?</li> <li>A) The patient's son</li> <li>B) A psychiatric consultant</li> <li>C) The person designated as having power of attorney</li> <li>D) The family physician</li> <li>E) A representative of the state department of motor vehicles</li> </ul>	Dementia. <b>07-158.</b> Driver license revocation. <b>ANS=E</b> . The family physician or a consulting psychiatrist can make recommendations regarding driving, and the patient's family or the person designated as having power of attorney can withhold access to a vehicle, but the state motor vehicle department reserves final judgement in these situations, and may require a driving test.
<b>07-189.</b> +Neu+Mhe. A 72-year-old Asian-American female is brought to your office by her husband because he thinks she might have Alzheimer's disease. For the past 3 months she has complained of confusion, poor appetite, and lack of	Dementia. <b>07-189.</b> Pseudodementia. <b>ANS=D.</b> Instead of dementia, this patient has signs of <b>pseudodementia or depression, which usually has an abrupt onset. Memory usually is intact when adequate time is taken to carefully evaluate</b>
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 37 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
energy. She has been unable to do routine housework. On brief questioning, her	the patient. The onset of Alzheimer's disease, however, is gradual and includes
short-term recall seems to be impaired, but a more detailed examination indicates	memory loss. Lewy body dementia is associated with hallucinations, and the onset
that her memory is fine. Which one of the following is the most likely diagnosis?	is gradual. Frontotemporal dementia generally occurs before age 60. The onset of
A) Alzheimer's disease	mild cognitive impairment is gradual and includes memory loss.
B) Lewy body dementia	find cognitive impairment is graduar and mendes memory loss.
C) Frontotemporal dementia	
D) Pseudodementia	
E) Mild cognitive impairment	
<b>08-016.</b> +Neu+Cel. A 68-year-old African-American female is brought to your	Dementia. 08-016. vascular. ANS=C. This patient's history and examination
office by her daughter, who tells you that her mother has recently been exhibiting	meet the criteria for vascular dementia published by the National Institute of
short-term memory loss and confusion. For example, she has difficulty	Neurological Disorders and Stroke, and the Association Internationale pour la
remembering how to get dressed appropriately and sometimes forgets to turn off	Neurosciences (NINDS-AIREN). Significant findings include cognitive decline
the oven after using it. These symptoms developed fairly abruptly. The patient's	from a previously higher level of functioning, manifested by impairment of
medical problems include type 2 diabetes mellitus, hypertension,	memory and of two or more cognitive domains, and evidence of cerebrovascular
hypercholesterolemia, and osteoarthritis. She had a stroke last year and has	disease by focal signs on neurologic examination, consistent with stroke. To fully
••	
residual mild hemiparesis. A physical examination is normal except for mild	meet the NINDS-AIREN criteria, she would need to have neuroimaging that
hemiparesis. On cognitive testing she is able to recall only one of three words, and	demonstrates characteristic vascular dementia lesions.
all the numbers are on one side on the clock-drawing test. Which one of the	
following types of dementia is most likely in this patient?	
A) Alzheimer's disease	
B) Dementia with Lewy bodies	
C) Vascular dementia	
D) Frontotemporal dementia	
E) Multisystem atrophy	
	Domentio 09 100 Domentio midi I anno 1 alta ANO A TIL' d' di
<b>08-109.</b> +Neu+Cel A 75-year-old male is brought to your office by his wife, who	Dementia <b>08-109</b> . Dementia with Lewy bodies. <b>ANS=A</b> . This patient has
states that he has had mental difficulties in recent months, such as not being able	dementia with Lewy bodies, which is the second most common histopathologic
to balance their checkbook or plan for his annual visit with the accountant. He was	type of dementia after Alzheimer's disease. He demonstrates typical symptoms
able to capably perform these activities in the past. She also tells you that he has	and signs of dementia with Lewy bodies, including well-formed
reported seeing animals in the room with him that he can describe vividly. He	hallucinations, vivid dreams, fluctuating cognition, sleep disorder with
naps for 3 or more hours each day, and stares blankly for long periods of time. He	periods of daytime sleeping, frequent falls, deficits in visuospatial ability
seems almost normal at times, but appears very confused at other times. This	(abnormal clock drawing), and REM sleep disorder (vivid dreams). In
confusion seems to come and go randomly. He also has been dreaming a lot, and	Alzheimer's disease the predominant early symptom is memory impairment,
has fallen more than once recently. His only medication is aspirin, 81 mg/day. On	without the other symptoms found in this patient. In dementia of Parkinson's
examination the patient walks slowly with a somewhat stooped posture and	disease, extrapyramidal symptoms such as tremor, bradykinesia, and rigidity
almost falls when turning around. He has only minimal facial expressiveness. No	precede the onset of memory impairment by more than a year. Patients with
tremor is noted, and the remainder of the examination is normal. He is able to	vascular dementia have risk factors and symptoms of stroke. Frontotemporal
recall three words out of three, but clock drawing is abnormal. Laboratory studies	dementia presents with behavioral changes, including disinhibition, or
are normal, and a CT of the brain shows changes of aging. What type of dementia	language problems such as various types of aphasia.
does this patient most likely have?	
A) Dementia with Lewy bodies	
B) Dementia of Parkinson's disease	
C) Alzheimer's disease	
D) Frontotemporal dementia	
E) Vascular dementia	
10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and	Dementia. 10-130. Frontotemporal dementia is the second most common cause of
<b>10-130.</b> +Psy+Adm. <b>?*</b> A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is	early-onset dementia. ANS=D. It often presents with behavioral and personality
10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and	
<b>10-130.</b> +Psy+Adm. <b>?*</b> A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is	early-onset dementia. ANS=D. It often presents with behavioral and personality
<b>10-130.</b> +Psy+Adm. <b>?*</b> A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?	early-onset dementia. <b>ANS=D</b> . It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of
<ul><li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li><li>A) Alzheimer's disease</li><li>B) Vascular dementia</li></ul>	early-onset dementia. <b>ANS=D</b> . It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> </ul>	early-onset dementia. <b>ANS=D</b> . It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> </ul>	early-onset dementia. <b>ANS=D</b> . It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> </ul>	early-onset dementia. <b>ANS=D</b> . It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance. Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else.</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance. Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries,
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance. Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance. Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers.
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance. Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> </ul>	early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance. Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious monoucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and south America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious monoucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and south America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and south America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious monoucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and south America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) A CBC</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression, Postpartum. 09-159. Postpartum. ANS=B. Screening for postpartum depression is recommended as part of the routine postpartum visit. The use of a screening tool for depression is recommended, such as the Edinburgh Postnatal</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) A CBC</li> <li>B) Screening for depression</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression is recommended as part of the routine postpartum visit. The use of a screening tool for depression is recommended, such as the Edinburgh Postnatal Depression Scale. This scale has been shown to increase the identification of</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) A CBC</li> <li>B) Screening for depression</li> <li>C) Thyroid function tests</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression, Postpartum. 09-159. Postpartum. ANS=B. Screening for postpartum depression is recommended as part of the routine postpartum visit. The use of a screening tool for depression is recommended, such as the Edinburgh Postnatal Depression Scale. This scale has been shown to increase the identification of women at high risk for depression. A CBC or urine dipstick is recommended only</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) A CBC</li> <li>B) Screening for depression</li> <li>C) Thyroid function tests</li> <li>D) Glucose tolerance testing</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression postpartum. 09-159. Postpartum. ANS=B. Screening for postpartum depression Scale. This scale has been shown to increase the identification of women at high risk for depression. A CBC or urine dipstick is recommended only for patients who have an indication for them, and should not be routinely ordered.</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) A CBC</li> <li>B) Screening for depression</li> <li>C) Thyroid function tests</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression, Postpartum. 09-159. Postpartum. ANS=B. Screening for postpartum depression is recommended as part of the routine postpartum visit. The use of a screening tool for depression is recommended, such as the Edinburgh Postnatal Depression Scale. This scale has been shown to increase the identification of women at high risk for depression. A CBC or urine dipstick is recommended only for patients who have an indication for them, and should not be routinely ordered. Thyroid function tests and glucose tolerance testing are recommended for patients</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) A CBC</li> <li>B) Screening for depression</li> <li>C) Thyroid function tests</li> <li>D) Glucose tolerance testing</li> <li>E) A urine dipstick</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression, Postpartum. 09-159. Postpartum. ANS=B. Screening for postpartum depression Scale. This scale has been shown to increase the identification of women at high risk for depression. A CBC or urine dipstick is recommended only for patients who have an indication for them, and should not be routinely ordered. Thyroid function tests and glucose tolerance testing are recommended for patients who are either symptomatic or at high risk for disease.</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) CBC</li> <li>B) Screening for depression</li> <li>C) Thyroid function tests</li> <li>D) Glucose tolerance testing</li> <li>E) A urine dipstick</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression for depression is recommended, such as the Edinburgh Postnatal Depression Scale. This scale has been shown to increase the identification of women at high risk for depression. A CBC or urine dipstick is recommended only for patients who have an indication for them, and should not be routinely ordered. Thyroid function tests and glucose tolerance testing are recommended for patients who are either symptomatic or at high risk for disease.</li> </ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) A CBC</li> <li>B) Screening for depression</li> <li>C) Thyroid function tests</li> <li>D) Glucose tolerance testing</li> <li>E) A urine dipstick</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression, Postpartum. 09-159. Postpartum. ANS=B. Screening for postpartum depression is recommended as part of the routine postpartum visit. The use of a screening tool for depression is recommended, such as the Edinburgh Postnatal Depression Scale. This scale has been shown to increase the identification of women at high risk for depression. A CBC or urine dipstick is recommended only for patients who have an indication for them, and should not be routinely ordered. Thyroid function tests and glucose tolerance testing are recommended for patients who are either symp</li></ul>
<ul> <li>10-130. +Psy+Adm.?* A 58-year-old male presents with recent behavior and personality changes, and you suspect dementia. Which one of the following is most likely to present in this manner?</li> <li>A) Alzheimer's disease</li> <li>B) Vascular dementia</li> <li>C) Mixed Alzheimer's disease and vascular dementia</li> <li>D) Frontotemporal dementia</li> <li>E) Progressive supranuclear palsy</li> <li>07-164. +Non+Adm. A 50-year-old female is ill with an abrupt onset of fever to 39.4E C (103.0E F), frontal headaches, severe sore throat, and myalgia. She has just returned from a 1-week cruise to the Caribbean, where she participated in island tours. Her husband, a physician, says that her symptoms resemble those of infectious mononucleosis, but he is concerned that she may have something else. Which one of the following is the most likely diagnosis?</li> <li>A) Salmonella B) Norovirus C) Leptospirosis D) Dengue fever</li> <li>E) Hepatitis B</li> <li>09-159. +Psy+Mac. Which one of the following is appropriate at the routine postpartum visit?</li> <li>A) CBC</li> <li>B) Screening for depression</li> <li>C) Thyroid function tests</li> <li>D) Glucose tolerance testing</li> <li>E) A urine dipstick</li> </ul>	<ul> <li>early-onset dementia. ANS=D. It often presents with behavioral and personality changes. Examples include disinhibition, impairment of personal conduct, loss of emotional sensitivity, loss of insight, and executive dysfunctions. Alzheimer's disease presents with memory loss and visuospatial problems. Vascular dementia is associated with risk factors for stroke, or occurs in relation to a stroke, with a stepwise progression. Alzheimer's disease and vascular dementia can occur together, with features of both. Progressive supranuclear palsy is characterized by early falls, vertical (especially downward) gaze, axial rigidity greater than appendicular rigidity, and levodopa resistance.</li> <li>Dengue fever. ANS=D. With the rising popularity of international travel to exotic locations, family physicians are encountering more febrile patients who have recently visited tropical countries. This patient has contracted dengue fever, an illness that closely resembles infectious mononucleosis, but with symptoms that usually are more severe. It is endemic in many tropical and subtropical countries, principally Mexico, the Caribbean, and Central and South America. The diagnosis is clinical and can be confirmed with a fourfold increase in antibody titers. Treatment is symptomatic. <i>Norovirus</i> infection, while associated with cruise ships, mainly causes gastrointestinal problems. The other responses would be unlikely with this clinical scenario.</li> <li>Depression, Postpartum. 09-159. Postpartum. ANS=B. Screening for postpartum depression is recommended as part of the routine postpartum visit. The use of a screening tool for depression. A CBC or urine dipstick is recommended only for patients who have an indication for them, and should not be routinely ordered. Thyroid function tests and glucose tolerance testing are recommended for patients who are either symptomatic or at high risk for disease.</li> </ul>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul><li>B) It is directly related to the desired gender of the infant</li><li>C) It is usually transient, lasting about 10 days</li><li>D) Thyroid function should always be assessed in women with postpartum depression</li></ul>	<b>impair cognitive and behavioral development in the child.</b> It is not related to the desired gender of the child, breastfeeding, or education level of the mother. It should be differentiated from the short-term "baby blues" that resolve within about 10 days. Sertraline is considered first-line treatment for postpartum depression in women who are breastfeeding.
<ul> <li>07-199. +Psy+Mhe. A 73-year-old white male is brought to your office by his family. He had uncontrolled hypertension and was found to have renal artery stenosis, but became normotensive following stent placement. Since then he has lost 6 kg (13 lb) and has no appetite. He is 165 cm (68 in) tall and currently weighs 59 kg (130 lb). He has been feeling anxious, and during a recent home repair he cut a hole in a wall and noticed a white material, which he believes is asbestos. He is concerned that the news media will find out about this, that his home will be condemned, and that the whole world will know. His affect is flat, and his eye contact is poor. However, he is alert and oriented. The remainder of the examination is normal. He is given an adequate trial of paroxetine (Paxil) and venlafaxine (Effexor) with no relief of symptoms, and continues to lose weight. Which one of the following would be the most effective treatment at this time?</li> <li>A) Fluoxetine (Prozac)</li> <li>B) Mirtazapine (Remeron)</li> <li>C) Lorazepam (Ativan)</li> <li>D) Methylphenidate (Ritalin)</li> <li>E) Electroconvulsive therapy (ECT)</li> </ul>	Depression, psychotic. <b>07-199. ANS=E.</b> This patient has late-life psychotic depression, as indicated by his delusional thinking. Psychotic depression is often resistant to standard antidepressant regimens. Aggressive pharmacotherapy is required, with best results in young adults. Available evidence suggests that most elderly patients who have depression with pronounced psychotic features either cannot tolerate adequate doses of conventional medications or do not respond to them. For severe depression that is persistent and refractory to psychotherapy and pharmacotherapy, electroconvulsive therapy (ECT) is the most effective treatment. ECT has therefore become the standard for treatment of late-life psychotic depression.
<ul> <li>08-002. +Psy+Mhe. A 65-year-old male presents for a follow-up visit for severe depression. His symptoms have included crying episodes, difficulty maintaining sleep, and decreased appetite. He has suicidal ideations and states that he has a gun in his home. He also thinks his wife is having an affair, but she is present and is adamant that this is not true. His symptoms have not been relieved by maximum doses of sertraline (Zoloft), venlafaxine (Effexor), or citalopram (Celexa). He currently is taking duloxetine (Cymbalta), which also has failed to relieve his symptoms. Which one of the following would most likely provide the quickest relief of his symptoms?</li> <li>A) Counseling</li> <li>B) Bupropion (Wellbutrin)</li> <li>C) Stopping duloxetine and starting an MAO inhibitor</li> <li>D) Electroconvulsive therapy</li> </ul>	Depression, psychotic. <b>08-002. ANS=D.</b> This patient has psychotic depression with suicidal ideations and has not responded to maximum doses of several antidepressants. He is more likely to respond to electroconvulsive therapy than to counseling or a change in medication.
<b>07-021.</b> +Psy+Mhe. At a routine follow-up visit, a 30-year-old male with depression that has been well-controlled for 12 months on extended-release paroxetine (Paxil) discusses stopping the medication because of delayed ejaculation that has become more problematic. He calls your office 5 days later because of a 3-day history of influenza-like symptoms, insomnia, nausea, and dizziness, which were moderately severe initially but are now improving. Which one of the following would be most appropriate at this time? A) Wait to see if the symptoms completely resolve B) Prescribe an antiviral medication C) Restart the paroxetine D) Restart the paroxetine at twice the previous dosage E) Hospitalize the patient	Depression. 07-021. Antidepressant discontinuation syndrome. ANS=A. This patient has developed antidepressant discontinuation syndrome. Proposed criteria for SSRI discontinuation syndrome include the presence of anxiety, diarrhea, dizziness, fatigue, gait/balance disturbance, gastrointestinal upset, hyperarousal, insomnia, instability, lightheadedness, paresthesia, tremor, vertigo and visual disturbance. Two or more of these must be present within 7 days of discontinuation of an SSRI after at least 1 month's use. Because this patient's symptoms are resolving quickly, it is unlikely to be influenza and does not warrant hospitalization. The patient could restart the SSRI, but if this were a relapse of his depression the symptoms would not be resolving. Doubling the dosage of the medication is inappropriate because the patient was doing well on the original dosage, and the symptoms do not indicate worsening depression.
<ul> <li>07-040. +Psy+Mhe. A 36-year-old female with moderate depression desires treatment, but prefers a plan that does not include pharmacologic therapy. She asks about cognitive therapy. Which one of the following statements is true about cognitive treatment for depression?</li> <li>A) It is not effective in patients who have not responded to pharmacologic therapy</li> <li>B) It is a valid alternative to antidepressants in treating moderate depression</li> <li>C) It is not effective in preventing relapse</li> <li>D) It provides little benefit in treating severe depression</li> <li>E) It is effective in adults but not in adolescents</li> </ul>	Depression. 07-040. Cognitive therapy. ANS=B. Numerous studies and meta- analyses convincingly demonstrate that cognitive therapy effectively treats patients with unipolar major depression. The evidence suggests that it is a valid <b>alternative</b> to antidepressants for patients with mild to moderate depression and in combination with antidepressants for patients with more severe depression. Cognitive therapy is recommended for patients who do not respond appropriately to medication, and should be considered for adolescents with mild to moderate depression. Cognitive therapy can decrease the risk of relapse.
<b>07-054.</b> +Psy+Mhe. A 43-year-old female seeks treatment for depression, which has begun to seriously interfere with her ability to function. Her only other medical condition is hypertension. Which one of the following antidepressants would be most likely to exacerbate her hypertension? A) Escitalopram (Lexapro) B) Bupropion (Wellbutrin) C) Venlafaxine (Effexor) D) Duloxetine (Cymbalta) E) Mirtazapine (Remeron)	Depression. <b>07-054.</b> Hypertension exacerbation. <b>ANS=C.</b> Of all of the antidepressants, only venlafaxine is known to exacerbate hypertension, and would therefore be a poor choice for this patient.
<b>07-146.</b> +Psy+Mac+Mhe. A 25-year-old female with a longstanding history of depression is doing well on her current medication. She and her husband are planning a pregnancy. Her psychiatrist has recommended that she continue taking an SSRI. Which one of the following poses the greatest risk during pregnancy? A) Sertraline (Zoloft) B) Escitalopram (Lexapro) C) Citalopram (Celexa) D) Fluoxetine (Prozac) E) Paroxetine (Paxil)	Depression. 07-146. In pregnancy. ANS=E. A recent update by the American College of Obstetricians and Gynecologists (ACOG) Committee on Obstetric Practice recommends that SSRI use during pregnancy be individualized. Most SSRIs are pregnancy category C, which means that these drugs have been found to cause teratogenic effects in animals, but there are no adequate studies in humans. However, recent data has shown that <u>paroxetine in the first</u> <u>trimester of pregnancy may increase congenital cardiac defects, such as atrial</u> <u>septal defect and ventricular septal defect, and it now has been changed to</u> <u>pregnancy category D (found to be harmful to human fetuses)</u> . If at all possible, this drug should be avoided in pregnant women and those planning a pregnancy SSRI use late in pregnancy has also been associated with neonatal complications that include jitteriness, mild respiratory distress, transient tachypnea of the newborn, weak cry, poor tone, and admission to the neonatal

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	intensive-care unit. One study showed that 30% of neonates exposed to SSRIs during late pregnancy develop a neonatal abstinence syndrome identified by a formal scoring system. A large case-controlled study found a sixfold increase in the risk of persistent pulmonary hypertension for newborns whose mothers used SSRIs after 20 weeks gestation. While there are potential risks associated with SSRI use, they must be balanced with the risks associated with stopping the medicine. Women who discontinue antidepressants during pregnancy have <b>five times the risk of relapse compared to those who take the medications.</b> <u>Untreated depression may increase the risk of low weight gain, sexually</u> <u>transmitted disease, and alcohol and substance abuse, which all may put the</u> <u>fetus at risk.</u> It is important for the risks and benefits of treatment with SSRIs to
	be weighed and thoroughly discussed with the patient prior to treatment so she
<ul> <li>07-178. +Psy+Cca. The only antidepressant with demonstrated efficacy in childhood and adolescent depression is A) clozapine (Clozaril)</li> <li>B) fluoxetine (Prozac) C) lithium D) imipramine (Tofranil)</li> <li>E) mirtazapine (Remeron)</li> </ul>	can make an informed decision. Depression. <b>07-178. In adolescents. ANS=B.</b> Fluoxetine is the only antidepressant with demonstrated efficacy in childhood and adolescent depression. Other SSRIs, tricyclic agents, and newer antidepressants have not been shown to be effective for treating depression in this age group. <u>Fluoxetine is the only SSRI</u> currently approved for pediatric use.
<ul> <li>08-036. +Psy+Mhe. A 64-year-old white male appears to be depressed 2 weeks after hospital discharge for a myocardial infarction. He experienced short runs of ventricular tachycardia during his hospitalization, and echocardiography revealed an ejection fraction of 40% at the time of discharge, with no symptoms of heart failure. He has a history of depression in the past. His current symptoms include depressed mood, sleep disturbance, feelings of hopelessness, and anhedonia. He denies suicidal ideation. Which one of the following would be most appropriate at this point?</li> <li>A) Low-dose amitriptyline at bedtime</li> <li>B) Sertraline (Zoloft)</li> <li>C) Referral for electroconvulsive therapy</li> <li>D) R demark for large intermentation and the statements.</li> </ul>	Depression. <b>08-036. ANS=B.</b> Several studies have demonstrated that <u>SSRIs are</u> <u>safe and effective in treating depression in patients with coronary disease,</u> <u>particularly those with a history of previous episodes of depression.</u> Medications have performed significantly better than intensive interpersonal psychotherapy in this setting. Electroconvulsive therapy is not considered first- line therapy in the absence of severe symptoms. While it may be effective for sleep disturbance, amitriptyline has potential cardiac side effects and is unlikely to be effective for the treatment of depression in low doses.
<ul> <li>D) Referral for intense interpersonal psychotherapy</li> <li>08-066. +Psy+Mhe. Patients with which one of the following conditions are at increased risk for complications from electroconvulsive therapy for depression?</li> <li>A) Pregnancy</li> <li>B) Seizure disorder</li> <li>C) Cardiac pacemaker implantation</li> <li>D) Depression unresponsive to oral medications</li> <li>E) Recent cerebral hemorrhage</li> </ul>	Depression. <b>08-066.</b> Electroconvulsive therapy. <b>ANS=E.</b> There are no absolute contraindications to electroconvulsive therapy (ECT), but more complications are seen in patients with a history of recent cerebral hemorrhage, stroke, or increased intracranial pressure. The efficacy of ECT may be reduced in patients who have not responded to oral antidepressants.
<ul> <li>08-103. +Psy+Cca. The only antidepressant approved by the Food and Drug Administration for the treatment of depression in children 8–17 years of age is A) venlafaxine (Effexor)</li> <li>B) amitriptyline</li> <li>C) lithium</li> <li>D) paroxetine (Paxil)</li> <li>E) fluoxetine (Prozac)</li> </ul>	Depression. <b>08-103.</b> In children 8–17 years of age. <b>ANS=E.</b> Fluoxetine is the only SSRI approved by the FDA for the treatment of depression in children 8–17 years of age. Tricyclic antidepressants are ineffective in children and have limited effectiveness in adolescents, with safety concerns in both groups. In children and adolescents, there is limited or no evidence evaluating the use of lithium, monoamine oxidase inhibitors, St. John's wort, or venlafaxine.
<ul> <li>09-080. +Psy+Mhe. You have decided that in addition to the counseling she has been receiving for depression, a 12-year-old female in your practice might benefit from an antidepressant medication. Which one of the following has shown the most favorable risk-to-benefit ratio in children and adolescents?</li> <li>A) Fluoxetine (Prozac)</li> <li>B) Lithium</li> <li>C) Amitriptyline</li> <li>D) Venlafaxine (Effexor)</li> <li>E) St. John's wort</li> </ul>	Depression. <b>09-080.</b> SSRIs have been shown to benefit children and adolescents with depression, but there are concerns regarding their association with suicidal behavior. <b>ANS=A.</b> Fluoxetine seems to be the most favorable SSRI, and is the only one recommended by the FDA for treatment of depression in children 8–17 years old. There is limited or no evidence to support the use of lithium, venlafaxine, or St. John's wort in children and adolescents. Amitriptyline and other tricyclic antidepressants are ineffective in children and have limited effectiveness in adolescents, and safety is an issue in both of these groups.
<b>09-131.</b> +Psy+Mhe. A severely depressed 77-year-old male is hospitalized after an intentional drug overdose. He was found by chance when his housekeeper returned to retrieve something she had left behind. The patient has been severely depressed since he suffered a myocardial infarction 1 year ago, and the recent death of his wife has increased his despondency. He had left a note apologizing to his family and his physician, who has treated him with multiple medications for depression over the past year. He has been treated with SSRIs, SNRIs, and atypical antipsychotics in high doses and in various combinations without significant improvement. Which one of the following would be most likely to improve this patient's depression at this point? A) Cognitive-behavioral therapy B) Psychoanalysis C) Electroconvulsive therapy D) Goal-directed psychotherapy E) Limbic stimulation	Depression. <b>09-131.</b> Electroconvulsive therapy has been shown to be more effective than psychiatric therapy, pharmacologic therapy, and other interventions in depressed older patients. <b>ANS=C.</b> It would be particularly appropriate in this case given the patient's age, his failure to respond to medications, and the need for rapid improvement to decrease the risk of further suicide attempts.
<ul> <li>09-143. +Psy+Mhe. A 26-year-old female presents with symptoms of anhedonia and anxiousness. Your evaluation leads to a diagnosis of major depressive disorder. The patient consents to medical treatment and counseling, but she is engaged to be married in 2 months and is concerned that antidepressants may lower her libido even further. Which one of the following would be best for reducing the likelihood of sexual dysfunction?</li> <li>A) Bupropion (Wellbutrin)</li> <li>B) Paroxetine (Paxil)</li> <li>C) Fluoxetine (Prozac)</li> <li>D) Sertraline (Zoloft)</li> </ul>	Depression. <b>09-143.</b> Treatment with reduced sexual dysfunction. <b>ANS=A.</b> Paroxetine has been found to cause higher rates of sexual dysfunction than bupropion, fluoxetine, and sertraline. Bupropion has been found to have significantly lower rates of adverse effects on sexual function than fluoxetine or sertraline. Hint: It's not <b>PRO</b> per to <b>SMOK</b> e while you <b>PI.</b> bu <b>PRO-PI</b> on: Also used for SMOKing cessation.Does not cause sexual side effects. *Buspiron: Mechanism Stimulates 5-HT1A receptors. Anxiolysis for generalized anxiety disorder. Does not cause sedation or addiction. Does not interact with alcohol.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 40 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>09-185. +Psy+Mhe. A 27-year-old male with a diagnosis of depression prefers to avoid pharmacologic treatment. You agree to engage in a trial of therapy in your office. During the treatment process, you help the patient realize that some of his perceptions and interpretations of reality may be false and lead to negative thoughts. Next, you help him discover alternative thoughts that reflect reality more closely, and to learn to discard his previous distorted thinking. By learning to substitute healthy thoughts for negative thoughts, he finds his mood, behavior, and physical reaction to different situations are improved. Which one of the following best categorizes this type of therapy?</li> <li>A) Psychoanalysis</li> <li>B) Biofeedback</li> <li>C) Cognitive therapy</li> <li>D) Group psychotherapy</li> <li>E) Hypnosis therapy</li> <li>10-014. +Psy+Mhe.?* You make a diagnosis of depression in a 26-year-old female. Her BMI is 32 kg/m and she has 2 been trying to lose weight. Which one of the following antidepressants would be LEAST likely to cause her to gain weight?</li> <li>A) Mirtazapine (Remeron)</li> <li>B) Amitriptyline</li> <li>C) Bupropion (Wellbutrin)</li> <li>D) Paroxetine (Paxil)</li> </ul>	Depression. 09-185. Cognitive therapy. ANS=C. This patient is engaged in cognitive therapy, which is a treatment process that helps patients correct false self-beliefs that can lead to negative moods and behaviors. Cognitive therapy has been shown to effectively treat patients with unipolar major depression, and is particularly useful in patients who do not respond to medication or who prefer nonpharmacologic therapy. Psychoanalysis is a process of free association where repressed memories are recovered. Biofeedback involves instrumentation that gives feedback about a patient's physiologic response to various situations in order to bring the autonomic nervous system under voluntary control. Group psychotherapy is a form of treatment in which people who are emotionally ill meet in a group guided by a trained therapist and help one another effect personality change. Hypnosis involves helping a patient enter a state of heightened focal concentration and receptivity that is typified by a feeling of involuntariness or an altered state of consciousness. Depression. 10-014. Weight loss. Bupropion. ANS=C. Bupropion is the antidepressant least likely to cause weight gain and may induce modest weight loss. All of the other choices are more likely to cause weight gain. Among SSRIs, paroxetine is associated with the most weight gain than the SSRIs.
<ul> <li>E) Citalopram (Celexa)</li> <li>10-167. +Psy+Mhe+Cca. A 14-year-old female is brought to your office by her mother because of a 3-month history of irritability, hypersomnia, decline in school performance, and lack of interest in her previous extracurricular activities. The mother is also your patient, and you know that she has a history of depression and has recently separated from her husband. After an appropriate workup, you diagnose depression in the daughter.</li> <li>For initial therapy you recommend</li> <li>A) amitriptyline</li> <li>B) methylphenidate (Ritalin)</li> <li>C) divalproex sodium (Depakote)</li> <li>D) comitive bahavioral therapy.</li> </ul>	Depression. <b>10-167.</b> In children and adolescents. <b>ANS=D.</b> This patient has multiple risk factors for depression: the hormonal changes of puberty, a family history of depression, and psychosocial stressors. Cognitive-behavioral therapy is effective in treating mild to moderate depression in children and adolescents (SOR A). SSRIs are an adjunctive treatment reserved for treatment of severe depression, and have limited evidence for effectiveness in children and adolescents. Amitriptyline should not be used because of its limited effectiveness and adverse effects (SOR A). Methylphenidate is used for treating attention deficit disorder, not depression. Divalproex sodium is used to treat bipolar disorder.
<ul> <li>D) cognitive-behavioral therapy</li> <li>08-184. +Int+Cca. A 6-month-old Hispanic female has had itching and irritability for 4–5 weeks. There is a family history of atopy and asthma. Physical examination reveals an excoriated dry rash bilaterally over the antecubital and popliteal fossae, as well as some involvement of the face. In addition to maintenance therapy with an emollient, which one of the following topical medications would be appropriate first-line treatment for flare-ups in this patient? A) A calcineurin inhibitor such as pimecrolimus (Elidel)</li> <li>B) An anesthetic</li> <li>C) An antibiotic</li> <li>E) A corticosteroid</li> <li>09-002. +Int+Cca. An otherwise healthy 10-year-old female presents with a papulovesicular eruption on one leg. It extends from the lateral buttock, down the posterolateral thigh, to the lateral calf. It is mildly painful. The patient's immunizations are up to date, including varicella and MMR. Her family has a pet cat at home, and another child at her school was sent home with a rash earlier in</li> </ul>	Dermatitis. <b>08-184.</b> Atopic dermatitis. <b>ANS=E.</b> This child has atopic dermatitis (eczema). It is manifested by a pruritic rash on the face and/or extensor surfaces of the arms and/or legs, especially in children. There often is a family history of atopy or allergies. In addition to the regular use of emollients, the mainstay of maintenance therapy, topical corticosteroids have been shown to be the best first-line treatment for flare-ups of atopic dermatitis. Topical calcineurin inhibitors should be second-line treatment for flare-ups, but are not recommended for use in children under 2 years of age. Antibiotics should be reserved for the treatment of acutely infected lesions. There is no evidence to support the use of topical anesthetics or analgesics in the treatment of this disorder. Dermatitis. <b>09-002.</b> Varicella-zoster: Herpes zoster dermatitis; <b>Herpes zoster can occur from either a wild strain or a vaccine strain</b> of varicella-zoster virus in vaccinated children, but the incidence is low. All cases are mild and uncomplicated.
the week. Dx? <b>10-239.</b> +Int+Adm. A cement plant worker presents to your office with the recurrent acute skin eruption on his legs shown in <b>Figure 7</b> . It extends proximally from the dorsum of the feet to just below the knees. This is the third eruption in 2 years. This patient most likely has A) tinea with a secondary id reaction B) rhus dermatitis C) methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) cellulitis D) contact dermatitis related to his occupation	Dermatitis. <b>10-239. contact. ANS=D.</b> Because this dermatitis is recurrent and symmetric, contact dermatitis should be suspected. Rhus dermatitis is a contact dermatitis, but it is more acute and presents with bullae and vesicles that are more linear than those seen in this patient. MRSA usually presents as a unilateral cellulitis, or more commonly as inflammatory nodules or pustules. This dermatitis is not scaling and does not have a distinct border that would suggest tinea.

## Mario's ITE database V2010.007

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>10-133. +Int+Cca.&gt;L The mother of an 8-year-old female is concerned about purple "warts" on her daughter's hands. The mother explains that the lesions started a few months ago on the right hand along the top of most of the knuckles and interphalangeal joints, and she has recently noticed them on the left hand. The child has no other complaints and the mother denies any unusual behaviors. A physical examination is unremarkable except for the slightly violaceous, flat-topped lesions the mother described.</li> <li>What is the most likely cause for this patient's finger lesions?</li> <li>A) Dermatomyositis</li> <li>B) Aggressive warts</li> <li>C) Rubbing/wringing of the hands</li> <li>D) Bulimia nervosa</li> </ul>	Dermatomyositis. <b>10-133. ANS=A.</b> One of the most characteristic findings in dermatomyositis is Gottron's papules, which are flat-topped, sometimes violaceous papules that often occur on most, if not all, of the knuckles and interphalangeal joints.
<ul> <li>E) Child abuse</li> <li>10-227. +Mus+Adm.&gt;L* Patients with which rheumatologic condition have the highest relative risk of internal malignancy compared to the general population?</li> <li>A) Systemic scleroderma</li> <li>B) Systemic lupus erythematosus</li> <li>C) Sjögren's syndrome</li> <li>D) Rheumatoid arthritis</li> <li>E) Dermatomyositis</li> </ul>	Dermatomyositis. <b>10-227. ANS=E.</b> In one study, <u>32% of patients with</u> <u>dermatomyositis had cancer. The risk of cancer was highest at the time of</u> <u>diagnosis, but remained high into the third year after diagnosis.</u> The cancer types most commonly found were ovarian, pulmonary, pancreatic, gastric, and colorectal, as well as non-Hodgkin's lymphoma. Among patients with polymyositis, 15% developed cancer. Cancer rates in patients with rheumatoid arthritis, systemic lupus erythematosus, and scleroderma were above those of the general population, but much lower than for patients with dermatomyositis. <u>In</u> <u>Sjögren's syndrome, the risk of non-Hodgkin's lymphoma is 44 times higher</u> then is the general parameters with or individual lifetime rick of 6(% - 100%)
<ul> <li>08-011. +Mus+Cca. A 2-week-old female is brought to the office for a well child visit. The physical examination is completely normal except for a clunking sensation and feeling of movement when adducting the hip and applying posterior pressure. Which one of the following would be the most appropriate next step?</li> <li>A) Referral for orthopedic consultation</li> <li>B) Reassurance that the problem resolves spontaneously in 90% of cases, and follow-up in 2 weeks</li> <li>C) Triple diapering and follow-up in 2 weeks</li> <li>D) A radiograph of the pelvis</li> </ul>	than in the general population, with an individual lifetime risk of 6%–10%. Developmental dysplasia of the hip. 08-011. Developmental dysplasia of the hip encompasses both subluxation and dislocation of the newborn hip, as well as anatomic abnormalities. ANS=A. It is more common in firstborns, females, breech presentations, oligohydramnios, and patients with a family history of developmental dysplasia. Experts are divided with regard to whether hip subluxation can be merely observed during the newborn period, but if there is any question of a hip problem on examination by 2 weeks of age, the recommendation is to refer to a specialist for further testing and treatment. Studies show that these problems disappear by 1 week of age in 60% of cases, and by 2 months of age in 90% of cases. Triple diapering should not be used because it puts the hip joint in the wrong position and may aggravate the problem. Plain radiographs may be helpful after 4–6 months of age, but prior to that time the ossification centers are too immature to be seen. Because the condition can be difficult to diagnose, and can result in significant problems, the current recommendation is to treat all children with developmental dysplasia of the hip. Closed reduction and immobilization in a Pavlik harness, with ultrasonography of the hip to ensure proper positioning, is the treatment of choice until 6 months of age. The American Academy of Pediatrics recommends ultrasound screening at 6 weeks for breech girls, breech boys (optional), and girls with a positive family history of developmental dysplasia of the hip. Other countries have recommended universal screening, but a review of the literature has not shown that the benefits of early diagnosis through universal screening outweigh the risks and potential problems of overtreating.
<b>09-230.</b> +End+Adm. A 36-year-old female presents with a several-week history of polyuria and intense thirst. She currently takes no medications. On examination her blood pressure and pulse rate are normal, and she is clinically euvolemic. Laboratory tests, including serum electrolyte levels, renal function tests, and plasma glucose, are all normal. A urinalysis is significant only for low specific gravity. Her 24-hour urine output is >5 L with low urine osmolality. The most likely cause of this patient's condition is a deficiency of A) angiotensin II B) aldosterone C) renin D) insulin E) arginine vasopressin	and potential problems of overtreating. Diabetes insipidus. <b>09-230. ANS=E.</b> This patient has diabetes insipidus, which is caused by a deficiency in the secretion or renal action of arginine vasopressin (AVP). AVP, also known as antidiuretic hormone, is produced in the posterior pituitary gland and the route of secretion is generally regulated by the osmolality of body fluid stores, including intravascular volume. Its chief action is the concentration of urine in the distal tubules of the kidney. Both low secretion of AVP from the pituitary and reduced antidiuretic action on the kidney can be primary or secondary, and the causes are numerous. Patients with diabetes insipidus present with profound urinary volume, frequency of urination, and thirst. The urine is very dilute, with osmolality <300 mOsm/L. Further workup will help determine the specific type of diabetes insipidus and its cause, which is necessary in order to implement appropriate treatment. Low levels of aldosterone, plasma renin activity, or angiotensin would cause abnormal blood pressure, electrolyte

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	levels, and/or renal function. Insulin deficiency results in diabetes mellitus.
<ul> <li>08-134. +Gas+Cca. An outbreak of pediatric diarrhea has swept your community. You evaluate a 30-month-old male who developed diarrhea yesterday. He is still breastfed. He is alert, his mucous membranes are moist, and his skin turgor is good. He passes a liquid stool in your office. Which one of the following would be the best advice with regard to his diet?</li> <li>A) The mother should withhold breastfeeding</li> <li>B) He should consume a normal age-appropriate diet, and continue breastfeeding</li> <li>C) Fasting will promote intestinal mucosal recovery</li> <li>D) Oral intake should be limited to clear fluids, bananas, rice, applesauce, and toast (BRAT diet)</li> </ul>	levels, and/or renal function. Insulin deficiency results in diabetes mellitus. Diarrhea. <b>08-134</b> . pediatric. Continued oral feeding in diarrhea aids in recovery, and an age-appropriate diet should be given. <b>ANS=B</b> . Breastfeeding or regular formula should be continued. Foods with complex carbohydrates (e.g., rice, wheat, potatoes, bread, and cereals), lean meats, yogurt, fruits, and vegetables are well tolerated. Foods high in simple sugars (e.g., juices, carbonated sodas) should be avoided because the osmotic load can worsen the diarrhea. Fatty foods should be avoided as well. The BRAT diet has not been shown to be effective. <b>Uptodate:</b> Common conditions — The common causes of diarrhea are infections with viruses and bacteria, diarrhea due to a systemic, nongastrointestinal infection, diarrhea associated with antibiotic administration, and feeding related diarrhea. By far, the single most common disorder seen in the emergency department and in general practice is viral gastroenteritis. In one series of children two months to two years of age, a viral etiology was identified in 60 percent of all cases of diarrhea and in 85 percent of moderately severe and severe episodes. *Extraintestinal infections (such as otitis media, urinary tract infections, and pneumonia) can cause acute diarrhea that is usually mild and self-limited. *Antibiotic associated diarrhea (AAD) occurs commonly. In one prospective series, 18 percent of children less than two years of age developed diarrhea associated with antibiotic use [15]. The pathophysiology of AAD is poorly understood, but is likely related to disruption in fecal flora [16]. *Overfeeding (particularly with hyperosmolar fluids) may cause diarrhea as the result of increased osmotic load. Diarrhea may also occur when intake of solid foods is limited (sometimes referred to as "starvation stools"). *Lactase deficiency - In younger children, this is usually a transient problem, caused by mucosal injury from an enteric infection [17]. In older children and adolescents, this ma
	dehydration who will drink. *Antibiotics should not be used for children with acute bloody diarrhea unless a specific pathogen has been isolated. Antibiotic therapy may be a risk factor for the
	development of hemolytic uremic syndrome in patients with bloody diarrhea due to E. Coli O157:H7.
<b>09-045.</b> +Gas+Adm. A 74-year-old male presents with a 4-day history of diarrhea that he had initially thought was "a 24-hour virus." He states that the onset of his illness included nausea, one episode of vomiting, and profuse diarrhea. He has felt feverish and has been having abdominal cramps. He does not recall eating anything unusual and has not traveled recently. On examination he appears uncomfortable, but in no real distress. His oral temperature is 37.1°C (98.8°F), blood pressure 134/82 mm Hg, and pulse rate 100 beats/min. He has lost 4 kg (9 lb) since his last visit 2 months earlier. His abdomen is soft, with hyperactive bowel sounds and mild diffuse tenderness on palpation. A CBC and basic metabolic profile are normal. Which one of the following is the most likely cause of this patient's illness? A) Norwalk-like virus (Norovirus) B) <i>Shigella</i> C) <i>Campylobacter</i> D) <i>Escherichia coli</i> O157:H7 E) <i>Staphyloccocus aureus</i>	Diarrhea. 09-045. <u>Campylobacter jejuni</u> , Ans=C. <u>One of the most common</u> <u>causes of bacterial foodborne illnesses</u> , estimated to affect 1 million Americans annually. <u>Undercooked or improperly handled chicken is most often</u> <u>implicated as the source</u> ; surveys have demonstrated that between 20% and 100% of all retail chicken sold in the United States is contaminated. The infection is generally isolated and sporadic, occurs more frequently at the extremes of age, is most common during the summer months, and affects males disproportionately. Symptoms typically begin 2–5 days following exposure. Diarrhea is the predominant symptom, with a lesser degree of nausea and vomiting. Up to 10 days is required for full recovery. While <u>Escherichia coli</u> <u>O157:H7 and Shigella may cause a similar illness, both generally present</u> <u>with bloody diarrhea.</u> <i>E. coli</i> O157:H7 is most often transmitted in contaminated undercooked beef, and Shigella is usually spread in a fecal-oral pattern or via contaminated water. The peripheral WBC count is typically increased substantially in shigellosis. Staphylococcus aureus produces an enterotoxin in food that causes the onset of nausea, vomiting, and diarrhea within hours of ingestion and clears within 24–48 hours. Norovirus is a very common cause of acute viral gastroenteritis, usually with more vomiting than diarrhea. It spreads person to person, and patients usually recover within 24 hours.
<b>09-137.</b> +Gas+Cca. An 8-year-old male presents to your office 2 days after returning from a trip to Mexico with his family. He developed watery, nonbloody diarrhea on the day of departure. He has mild abdominal cramping, but no fever or vomiting. His mother had similar symptoms, which were milder and resolved with over-the-counter treatments. Which one of the following would be most appropriate to treat this patient's condition? A) Metronidazole (Flagyl) B) Ciprofloxacin (Cipro) C) Azithromycin (Zithromax) D) Mebendazole E) Metoclopramide (Reglan)	Diarrhea. <b>09-137.</b> traveler's. <b>ANS=C.</b> Traveler's diarrhea commonly occurs in travelers to Mexico and developing countries. It is usually caused by bacterial organisms such as <i>Escherichia coli</i> , <i>Campylobacter</i> , <i>Shigella</i> , and <i>Salmonella</i> . Viral and parasitic organisms are less common causes, unless the diarrhea persists for 2 weeks. Appropriate medications include antidiarrheal agents such as loperamide, bismuth subsalicylate, and antibiotics. <u>In traveler's diarrhea, fluoroquinolones are effective in adults, but should not be used in an 8-year-old. Azithromycin is generally effective and safe in children. Metronidazole, mebendazole, and metoclopramide would not be likely to successfully treat bacterial traveler's diarrhea.</u>
<b>09-180.</b> +Gas+Adm. A 24-year-old female who works at a day-care facility presents to your office to discuss ways to avoid getting "all the infections the kids get." She plans to enroll her child in the facility. She is specifically concerned	Diarrhea. <b>09-180.</b> Probiotics are microorganisms with likely health benefits, based on recent randomized, controlled trials. <b>ANS=A.</b> Good evidence suggests that <b>probiotics reduce the incidence, duration, and severity of antibiotic-</b>
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 43 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

her that probiotics A) can lessen the severity and duration of infectious diarrhea	Document copy for the sole personal use of Dr. Mario Alberto Jimenez associated and infectious diarrhea; common side effects include flatulence and abdominal pain. Contraindications include short-gut syndromes and
known side effects D) often interact with common prescription medications E) are	immunocompromised states. There are no known drug interactions, and these agents appear safe for all ages (SOR A).
not appropriate for use in children	
<ul> <li>virus?</li> <li>A) Outbreaks occur mostly in settings with large numbers of children, such as schools and day-care centers</li> <li>B) Viral shedding continues long after the acute illness</li> <li>C) The virus does not survive long on most environmental surfaces</li> <li>D) An episode of Norwalk gastroenteritis leads to long-lasting immunity</li> <li>E) It is a less common cause of diarrhea in adults than <i>Shigella</i></li> </ul>	Diarrhea. <b>10-046.</b> Norwalk virus. Outbreaks of Norwalk gastroenteritis occur in a wide variety of settings, involve all ages, and are more likely to involve high-risk groups such as immunocompromised patients or the elderly. <b>ANS=B.</b> Not only does viral shedding of the Norwalk virus often precede the onset of illness, but it can continue long after the illness has clinically ended. The virus persists on environmental surfaces and can tolerate a broad range of temperatures. There are multiple strains of the virus, so a single infection does not confer immunity, and repeated infections occur throughout life. <u>It is the most common cause of diarrhea in adults.</u>
08-235. +Gas+Adm. A 60-year-old male presents with a 3-day history of abdominal pain and urinary urgency. He also complains of chills, fatigue, and decreased appetite. His temperature is 38.4°C (101.2°F) orally, his pulse rate is 96 beats/min, and his blood pressure is 126/84 mm Hg. On physical examination he is tender in the left lower quadrant, and a rectal examination reveals a normal sized, nontender prostate gland. A urinalysis reveals 5–10 WBCs/hpf and 5–10 RBCs/hpf. A CBC reveals a normal hemoglobin and hematocrit, with a WBC count of 15,000/mm^3 and 85% neutrophils. A CT scan of the abdomen is shown. Which one of the following is the most likely diagnosis? A) Acute prostatitis B) Colon cancer C) Appendicitis D) Diverticulitis E) Pyelonephritis	Diverticulitis/ Diverticulosis. <b>08-235.</b> The clinical picture of diverticulitis can be confused with urinary tract infections because bladder symptoms can accompany the gastrointestinal symptoms. <b>ANS=D</b> . The sigmoid colon lies close enough to the bladder that the bladder can be irritated by sigmoid diverticulitis. Conversely, urinary infections do not cause painful defecation. The location of the tenderness in the left lower quadrant and above the rectum is typical for sigmoid diverticulitis. No single test is routinely diagnostic for diverticulitis, but a CT scan that shows edema in the sigmoid mesentery has the best positive predictive value. Appendicitis is usually diagnosed clinically, but like diverticulitis is increasingly confirmed by CT. The tenderness is generally in the right lower quadrant. CT findings are noted around the cecum, rather than adjacent to the sigmoid. Colon cancer is usually asymptomatic when discovered, but when symptoms are present they usually include a change in bowel habits, hematochezia, anemia, or symptoms of obstruction. Pericolic abscess is a rare presentation of colon cancer.
<ul> <li>fatigue, weight loss, and mild diarrhea. He is found to have a mildly tender mass in the left lower quadrant of the abdomen. The most likely diagnosis is</li> <li>A) Crohn's disease</li> <li>B) ulcerative colitis</li> <li>C) celiac disease</li> <li>D) diverticulitis</li> </ul>	Diverticulitis/ Diverticulosis. <b>09-016</b> . Diverticulitis commonly affects the left lower quadrant in the elderly and may present as an abscess. <b>ANS: D.</b> Crohn's disease primarily affects the distal small intestine (regional enteritis), most typically in a young person, and usually in the second or third decade of life. Ulcerative colitis usually presents with a longer history and does not typically present with a mass. A 2-week history of a palpable mass is not a typical presentation for lymphoma. Celiac disease does not cause a palpable left lower quadrant mass.
<ul> <li>09-041. +Gas+Euc. A 64-year-old white male presents to the emergency department with a 48-hour history of left lower quadrant pain. After a thorough history and a physical examination you conclude that the patient has diverticulitis. The patient is allergic to metronidazole (Flagyl). You recommend a clear-liquid diet, a follow-up visit with his primary care physician in 48 hours, and treatment with A) amoxicillin B) amoxicillin/clavulanate (Augmentin) C) ciprofloxacin (Cipro) D) doxycycline E) azithromycin (Zithromax)</li> <li>10-045. +Gas+Euc.* A 56-year-old female with well-controlled diabetes mellitus</li> </ul>	Diverticulitis/ Diverticulosis. <b>09-041.</b> An accepted regimen for outpatient treatment of diverticulitis is amoxicillin/clavulanate, 875 mg every 12 hours. Ciprofloxacin, doxycycline, and azithromycin are not optimal treatments because they do not include anaerobic coverage. Epocrates: Primary <b>Options:</b> <b>amoxicillin/clavulanate: 500 mg orally every 8 hours for 7 days. OR</b> <b>ciprofloxacin: 500 mg orally every 12 hours for 7-10 days and metronidazole:</b> <b>500 mg orally every 8 hours for 7-10 days.</b> Diverticulitis/ Diverticulosis. <b>10-045. Acute. ANS=A.</b> Based on the history and physical examination, this patient most likely has acute diverticulitis. CT has a
<ul> <li>quadrant abdominal pain, low-grade fever, and nausea. She has not been able to tolerate oral intake over the last 6 hours. An abdominal examination reveals significant tenderness in the left lower quadrant with slight guarding but no rebound tenderness. Bowel sounds are hypoactive. Rectal and pelvic examinations are unremarkable. Which one of the following is recommended as the initial diagnostic procedure in this situation?</li> <li>A) CT of the abdomen and pelvis</li> <li>B) Abdominal and pelvic ultrasonography</li> <li>C) A barium enema</li> </ul>	very high sensitivity and specificity for this diagnosis, provides information on the extent and stage of the disease, and may suggest other diagnoses. Ultrasonography may be helpful in suggesting other diagnoses, but it is not as specific or as sensitive for diverticulitis as CT. Limited-contrast studies of the distal colon and rectum may occasionally be useful in distinguishing between diverticulitis and carcinoma, but would not be the initial procedure of choice. Water-soluble contrast material is used in this situation instead of barium. Colonoscopy to detect other diseases, such as cancer or inflammatory bowel disease, is deferred until the acute process has resolved, usually for 6 weeks. The risk of perforation or
E) Laparoscopy	exacerbation of the disease is greater if colonoscopy is performed acutely. Diagnostic laparoscopy is rarely needed in this situation. Laparoscopic or open surgery to drain an abscess or resect diseased tissue is reserved for patients who do not respond to medical therapy. Elective sigmoid resection may be considered Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007 Document copy for the sole personal use of Dr. Mario Alberto Jimenez					
	after recovery in cases of recurrent episodes.				
10-090. +Gas+Adm.>L?* A 65-year-old asymptomatic female is found to have	Diverticulitis/ D	viverticulosis. 10-090	. ANS=E. Patients w	ith diverticulosis should	
extensive sigmoid diverticulosis on screening colonoscopy. She asks whether				educe progression of the	
there are any dietary changes she should make. In addition to increasing fiber	diverticular disease. Avoidance of nuts, corn, popcorn, and small seeds has not been shown to prevent complications of diverticular disease.				
intake, which one of the following would you recommend? A) Limiting intake of dairy products	been shown to prevent complications of diverticular disease.				
B) Limiting intake of spicy foods					
C) Limiting intake of wheat flour					
D) Limiting intake of nuts					
E) No limitations on other intake					
<b>07-020.</b> +End+Adm. A 54-year-old female diabetic who takes fenofibrate (Tricor)			ly controlled diabet		
has the following fasting lipid levels: total cholesterol 200 mg/dL, LDL cholesterol 64 mg/dL, HDL cholesterol 40 mg/dL, triglycerides 525 mg/dL. Her			d with a metabolic	in will lower the LDL-	
weight has increased by 3 kg (7 lb). She occasionally checks her blood glucose				es. Celiac disease is not a	
and says it is "okay." She admits to occasional diarrhea. <b>In order to improve this</b>			may be associated w		
patient's lipid status, the most appropriate next step is to A) add ezetimibe	leading to hypot		5	1 /	
(Zetia) B) check the patient for celiac disease C) order TSH and hemoglobin A1c					
levels D) discontinue fenofibrate and prescribe rosuvastatin (Crestor)					
<b>07-041.</b> +End+Adm. A contraindication to the use of metformin (Glucophage) in	DM I/ DM II. 0	7-041. <u>Metformin</u> de	ecreases glucose pro	duction in the liver	
a patient with type 2 diabetes mellitus is			=C. It has no effect of		
A) obesity B) insulin resistance			ne insulin resistance, idies have proven its	safety and usefulness in	
C) renal insufficiency			ted in renal insuffic		
D) concurrent use of glyburide (DiaBeta, Micronase)				ther contraindications	
Treatment Guidelines for Medicine and Primary Care 2008 Edition (TGMPC): Type 2			history of lactic aci	dosis, heart failure	
Diabetes Mellitus. I. Degree of glycemic control	treated with dr MEDICATION	ugs, and chronic lui EXAMPLES	ng disease. MECHANISM	SIDE EFFECTS	
<b>A.</b> Measurement of hemoglobin A1C (A1C) provides a better estimate of chronic glycemic control than measurements of fasting blood glucose. The Diabetes Control and Complications	Sulfonylureas	First generation:	↑ insulin secretion.	Hypoglycemia.	
Trial (DCCT) demonstrated that achieving near normal blood glucose concentrations		Chlorpropamide Second generation:			
markedly reduces the risk of microvascular and neurologic complications in type 1 diabetes.		Glipizide, glyburide			
<b>B.</b> The goal of therapy should be an A1C value of 7.0 percent or less. The goal should be set somewhat higher for older patients. In order to achieve the A1C goal, the glucose goals below	Meglitinides	Repaglinide	↑ insulin secretion.	Hypoglycemia.	
are usually necessary: <b>1.</b> Fasting glucose 70 to 130 mg/dL. <b>2.</b> Postprandial glucose (90 to 120	Biguanides	Metformin	Inhibit hepatic gluconeogenesis;	Lactic acidosis, diarrhea, GI discomfort, metallic taste,	
minutes after a meal) <180 mg/dL			↑ glucose utilization;	weight loss.	
<b>C.</b> Cardiovascular risk factor reduction (smoking cessation, aspirin, blood pressure, reduction in serum lipids, diet, exercise, and, in high-risk patients, an angiotensin converting enzyme	a-glucosidase	Acarbose	<ul> <li>↓ insulin resistance</li> <li>↓ glucose absorption.</li> </ul>	↑ flatulence, GI discomfort,	
inhibitor) should be accomplished for all patients with type 2 diabetes.	inhibitors	Acarbose	↓ glucose absorption.	elevated LFTs.	
II. Nonpharmacologic treatment	Thiazolinedione ("glitazones")	Rosiglitazone, pioglitazone	↓ insulin resistance;	Hepatocellular injury, anemia, pedal edema, CHF.	
<b>A.</b> Diet modification can improve obesity, hypertension, and insulin release and responsiveness. <b>B.</b> Regular exercise leads to improved glycemic control due to increased	Glucagon-like	Exenatide	↑ glucose utilization. ↑ postprandial glucose	Nausea, vomiting, weight	
responsiveness to insulin; it can also delay the progression of impaired glucose tolerance to	peptide-1 (GLP-		utilization; stimulate	loss, pain at injection site,	
overt diabetes.	1) agonists.		insulin secretion, suppress glucagon	hypoglycemia. Delayed gastric emptying	
III. Medications for initial therapy A. Sulfonylureas and meglitinides increase insulin release.			secretion, and	0 100	
<b>B.</b> Biguanides (metformin) and thiazolidinedione increase insulin responsiveness.			promote B-cell production.		
C. Alpha-glucosidase inhibitors reduce intestinal absorption of carbohydrate and lipase	DPP-4 inhibitors	Sitagliptin (Januvia)	Prevent GLP-1		
inhibitors reduce the absorption of fat.			breakdown and slow the breakdown of		
<b>D. Biguanides.</b> Metformin (Glucophage) often leads to modest weight reduction and is a reasonable first choice for oral treatment of type 2 diabetes.			some sugars.		
1. Metformin (Glucophage) is available as 500 and 850 mg tablets, which should be taken	Amylin analogs	Pramlintide (Symlin)	Acts with insulin to delay gastric emptying	Delayed gastric emptying	
with meals; extended release formulations may be convenient once the dose is adjusted.			and also inhibit		
Metformin should not be given to elderly (>80 years) patients unless renal sufficiency is proven with a direct measure of GFR, or to patients who have renal, hepatic or cardiac disease			glucagon release		
or drink excess alcohol. Patients who are about to receive intravenous iodinated contrast	IV. Choosing Init	ial Therapy			
material (with potential for contrast-induced renal failure) or undergo a surgical procedure			•	ne of diabetes diagnosis, in	
<ul><li>(with potential compromise of circulation) should have metformin held.</li><li>2. Initial dosage is 500 mg once daily with the evening meal and, if tolerated, a second 500</li></ul>		traindications, along wi		The dose of Metformin	
mg dose is added with breakfast. The dose can be increased slowly (one tablet every one to		over one to two months	· ·		
two weeks). The usual maximum effective dose is 850 mg twice per day.				inless renal sufficiency is	
Contraindications to metformin therapy: Renal dysfunction: Serum creatinine level >1.5 mg/dL in men, >1.4 mg/dL in women. Metformin should be				al, hepatic or cardiac disease zolidinedione) should be	
temporarily discontinued in patients undergoing radiologic studies involving intravascular administration of		rapy in these patients.	a (a surfortyfulea of tina	zonalie afone) should be	
iodinated contrast materials. Treatment may be restarted 48 hours after the procedure when normal renal function is documented. Treatment should be carefully initiated in patients >80 years of age after			sing weight, or are ketot		
measurement of creatinine clearance demonstrates that renal function is not reduced. Congestive heart failure			or patients presenting with cose consistently >300 m	th A1C >10 percent, fasting	
that requires pharmacologic therapy. Hepatic dysfunction. Dehydration. Acute or chronic metabolic acidosis (diabetic ketoacidosis). Known hypersensitivity to Metformin.				another medication should	
E. Sulfonylureas are moderately effective, lowering blood glucose concentrations by 20	be added within tw	vo to three months of in	itiation of metformin. The	he choice of the second	
percent and A1C by 1 to 2 percent. Their effectiveness decreases over time. <b>1.</b> The choice of sulfonylurea is primarily dependent upon cost, since the efficacy of the available drugs		be insulin, a sulfonylure A1C remains >8.5 perc		e. Insulin is recommended	
is similar.				ree months, based on the	
F. Meglitinides. Repaglinide (Prandin) and nateglinide (Starlix) are short-acting glucose-	A1C result, aiming	g for levels as close to the	ne nondiabetic range as	possible. Values >7 percent	
lowering drugs that act similarly to the sulfonylureas and have similar or slightly less efficacy		or further adjustments in		oon a record of the fasting	
in decreasing glycemia. Meglitinides may be used in patients who have allergy to sulfonylureas. However, they are considerably more expensive than sulfonylureas, and have			other times during the o	eep a record of the fasting lay, and when	
no therapeutic advantage.	hypoglycemia is s		annes daring the t		
<b>1. Nateglinide (Starlix)</b> is hepatically metabolized, with renal excretion of active metabolites.		ral therapy for persist			
With decreased renal function, the accumulation of active metabolites and hypoglycemia has occurred. Repaglinide is principally metabolized by the liver, with less than 10 percent renally		is sulfonylureas. Metfo ion with a sulfonylurea.		poglycemic effect when	
excreted.				owing glyburide/metformin	
<b>G. Thiazolidinediones,</b> rosiglitazone (Avandia) and pioglitazone (Actos), lower blood	doses: 1.25 mg/250 mg; 2.5 mg/500 mg; 5 mg/500 mg.				
glucose concentrations by increasing insulin sensitivity. Hepatotoxicity with rosiglitazone and pioglitazone is very rare. <b>1.</b> Pioglitazone and rosiglitazone are approved for monotherapy or in			dione such as rosiglitazo		
Convrighted Material ITE Personal Notes Not for Sale Page 45 of 170 Mario A Jimenez M.D. B.S.E.E. "Jesus died for us and teaches us that it is in giving that we					

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>combination with metformin, sulfonylurea or insulin. Combination tablets of metformin and rosiglitazone (Avandamet) are available. Thiazolidinediones are similar to metformin as monotherapy. They are associated with more weight gain than metformin, and are considerably more expensive than any of the other oral hypoglycemic drugs. 2. Thiazolidinediones are reserved for second-line treatment in combination with other anti-diabetic medications where synergistic effects can lower AIC substantially. Fluid retention and precipitation or worsening of heart failure are significant concerns.</li> <li>H.Alpha-glucosidase inhibitors. Because they act by a different mechanism, the alpha-glucosidase inhibitors, acarbose and miglitol, have additive hypoglycemic effects in patients receiving diet, sulfonylurea, metformin, or insulin therapy. This class of drugs is less potent than the sulfonylureas or metformin, lowering AIC by only 0.5 to 1.0 percentage points. 1. Side effects are flatulence and diarrhea. These agents are not first-line therapy because of low efficacy and poor tolerance. 2. Acarbose is available as 50 and 100 mg tablets which should be taken with the first bite of each meal. Initiate therapy with 50 mg three times daily. Flatulence, diarrhea, and abdominal discomfort resolve if the dose is decreased. Few patients tolerate more than 300 mg daily.</li> </ul>	<ul> <li>C. Insulin is a reasonable choice for initial therapy in patients who present with symptomatic or poorly controlled diabetes, and is the preferred second-line medication for patients with A1C &gt;8.5 percent or with symptoms of hyperglycemia despite metformin titration. The dose of insulin may be adjusted every three days, until glycemic targets are achieved. 1. Patients with persistent hyperglycemia despite or al hypoglycemic therapy may stop the oral drug and begin insulin, or may add insulin to oral medication.</li> <li>2.While NPH has been used commonly at bedtime to supplement oral hypoglycemia drug therapy, insulin glargine may be equally effective for reducing A1C values and may cause less nocturnal hypoglycemia. Although it may be actionable to administer glargine at bedtime, morning administration may be better.</li> <li>I. Insulin should be used early in type 2 diabetes. When treated early with insulin, patients with type 2 diabetes can have remissions of at least several years, during which A1C is normal. A patient who is 20 percent above ideal body weight and has a fasting blood glucose of 180 mg/dL could be started on a total dose of 21 units per day.</li> </ul>
<b>07-108.</b> +End+Mac. A 26-year-old gravida 1 para 0 at 28 weeks gestation has a 1- hour plasma glucose level of 145 mg/dL on a 50 g/hr glucose challenge test. A 3- hour glucose tolerance test confirms gestational diabetes. You initially recommend home glucose monitoring and treatment with diet and exercise. You would recommend insulin therapy if her 2-hour postprandial blood glucose levels are not consistently below a target level of A) 80 mg/dL B) 100 mg/dL C) 120 mg/dL D) 140 mg/dL E) 160 mg/dL	DM I/ DM II. 07-108. DM, gestational. ANS=C. Patients diagnosed with gestational diabetes should receive nutrition counseling, monitor their blood glucose levels, and exercise to help maintain normoglycemia. The <u>commonly</u> accepted treatment goal is to maintain a fasting capillary blood glucose level <95–105 mg/dL. The goal for the postprandial capillary blood glucose level should be <140 mg/dL at 1 hour and <120 mg/dL at 2 hours.
<ul> <li>07-140. +End+Mac. Which one of the following is a relative contraindication to prescribing rosiglitazone (Avandia) and pioglitazone (Actos)?</li> <li>A) Pregnancy</li> <li>B) Nonalcoholic fatty liver disease</li> <li>C) Use of insulin</li> <li>D) Lipodystrophy associated with highly active antiretroviral therapy</li> <li>E) Anemia</li> </ul>	DM I/ DM II. 07-140. ANS=A. The thiazolidinediones rosiglitazone and pioglitazone are categorized as pregnancy category C, due to experimental evidence of growth retardation in mid- to late gestation in animal models. These drugs are approved for the treatment of type 2 diabetes mellitus, and may be beneficial in other conditions associated with insulin resistance. Liver enzyme elevations are improved in patients with nonalcoholic fatty liver disease. Although not very effective, the drugs are not contraindicated in patients with lipodystrophy associated with highly active antiretroviral therapy. Caution must be used when combining the use of these drugs with insulin therapy, as the increase in plasma volume that can be associated with this dual therapy may exacerbate heart failure, but the combination is not contraindicated in the U.S. The anemia associated with these drugs is mild and rarely causes clinical consequences.
<ul> <li>07-167. +End+Adm. Which one of the following is correct regarding nonalcoholic fatty liver disease?</li> <li>A) It is considered a benign condition</li> <li>B) It is not associated with cirrhosis</li> <li>C) It is associated with type 2 diabetes mellitus</li> <li>D) Isolated alkaline phosphatase elevation is the most common associated laboratory abnormality</li> <li>E) The diagnosis is usually confirmed by CT</li> </ul>	DM I/ DM II. 07-167. Nonalcoholic fatty liver disease is associated with type 2 diabetes mellitus. ANS=C. It is not always a benign condition; in fact, it is now thought to be the most common cause of cryptogenic cirrhosis, particularly in overweight or obese individuals. It is associated with aminotransferase elevation, but can occur with normal or only slightly elevated levels. Imaging studies have limited utility in diagnosing nonalcoholic fatty liver disease, and cannot be routinely recommended.
<b>07-175.</b> +End+Adm. A 45-year-old male comes to your office for follow-up of his diabetes mellitus, which was diagnosed 3 months ago. He wanted to try lifestyle modification, including diet, exercise, and weight loss, before trying medications. He has lost 3 kg (7 lb), but still is 14 kg (31 lb) overweight. His examination is unremarkable, as is his chemistry profile. His hemoglobin A1c level is 8.3%. Which one of the following would be most appropriate at this point? A) Exenatide (Byetta) B) Glyburide (Micronase, DiaBeta) C) Insulin D) Metformin (Glucophage) E) Rosiglitazone (Avandia)	DM I/ DM II. 07-175. ANS=D. The American Diabetes Association recommends lifestyle intervention along with metformin as initial therapy for type 2 diabetes. If the follow-up hemoglobin A1c is more than 7.0%, then insulin (most effective), a sulfonylurea (least expensive), or a glitazone (no risk of hypoglycemia) can be added. The hemoglobin A1c should be checked every 3 months until it is less than 7.0%, and every 6 months thereafter.
<b>07-180.</b> +End+Cca. For an African-American child with a body mass index (BMI) greater than the 85th percentile for age and gender, and whose mother has type 2 diabetes mellitus, screening for type 2 diabetes should begin at what age? A) 7 years B) 10 years C) 13 years D) 16 years E) In adulthood	DM I/ DM II. 07-180. ANS=B. <u>Children and adolescents at increased risk</u> should be screened for type 2 diabetes at age 10, or at puberty if it occurs <u>before age 10.</u> Children are considered at increased risk if their BMI is >85th percentile for age and sex, their weight for height is >85th percentile, or their weight is >120% of ideal for height, AND they have two or more of the following: • a family history of type 2 diabetes in first- or second-degree relatives • ethnicity of American Indian, African-American, Hispanic, Asian/Pacific Islander • sign/symptoms of insulin resistance (acanthosis nigricans, hypertension, dyslipidemia, polycystic ovary syndrome). <u>Screening</u> should be performed every 2 years.
<ul> <li>07-193. +End+Com. Which one of the following statements regarding blood glucose monitoring in patients with type 1 diabetes is most correct?</li> <li>A) Blood glucose testing from a fingertip site is preferred</li> <li>B) Monitoring blood glucose 5 times per day is too often</li> <li>C) A random blood glucose level of 100 mg/dL is too high</li> <li>D) Continuous blood glucose monitoring can result in higher hemoglobin A1c levels</li> <li>Treatment Guidelines for Medicine and Primary Care 2008 Edition (TGMPC):</li> <li>Routine Diabetes Care</li> <li>History: Review physical activity, diet, self-monitored blood glucose readings, medications. Assess for symptoms of coronary heart disease. Evaluate smoking status, latest eye examination results, foot care.</li> <li>Physical examination: Weight. Blood pressure. Foot examination. Pulse. Sores or callus. Monofilament test for sensation. Insulin injection sites. Refer for dilated retinal examination annually.</li> <li>Laboratory studies: HbA1c every three to six months. Annual fasting lipid panel. Annual</li> <li>Copyrighted Material. ITE Personal Notes. Not for Sale.</li> </ul>	DM <i>I</i> DM II. <b>07-193</b> . DM I. <b>ANS=A</b> . According to the Diabetes Control and Complications Trial, <u>patients should assess fingertip blood glucose</u> levels at least 3 times per day, including at bedtime, as well as before and after exercising and before driving. Tight glycemic control leaves patients more at risk for hypoglycemia, so frequent monitoring helps to reduce this risk. Although testing from other sites is usually reliable, it can be inaccurate if performed within 60 minutes of meals or after exercise. If a patient's random blood glucose level is less than 100 mg/dL, a small snack should be eaten. Preprandial results should be 90–130 mg/dL, and postprandial levels should be <180 mg/dL. Continuous blood glucose monitoring has been shown to generally lead to tighter control and lower hemoglobin A1c levels. Insulin therapy in type 1 diabetes mellitus: A. The Diabetes Control and Complications Trial (DCCT) demonstrated that improved glycemic control with intensive insulin therapy in patients with type 1 diabetes mellitus led to graded reductions in retinopathy, nephropathy, and neuropathy. Intensive therapy is now Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

unite arounnin/cream	ine ratio. Ann	uai seruin c	reatinine.
Multiple daily	insulin in	jection r	regimens

-		-		
Regimen	Breakfast	Lunch	Dinner	Bedtime
1	R + N		R	Ν
2	R	R	R	Ν
3	VRA	VRA	VRA	G
4	VRA + G	VRA	VRA	
5	VRA + G	VRA	VRA + G	

Document conv	for the	sole ne	rsonali	use of Dr	Mario	Alberto	Iimenez

urine albumin/creatinine ratio. Annual serum creatinine. Multiple daily insulin injection regimens				
Regimen	Breakfast	Lunch	Dinner	Bedtime
1	R + N		R	Ν
2	R	R	R	N
3	VRA	VRA	VRA	G
4	VRA + G	VRA	VRA	<u> </u>
5	VRA + G insulin; N: NPH ii	VRA	VRA + G	
<ul> <li>analog (lispro, aspart, or glulisine); G: glargine.</li> <li>H. Designing an (Multiple daily insulin) MDI insulin regimen: Most newly diagnosed patients with type 1 diabetes can be started on a total daily dose of 0.2 to 0.4 units of insulin per kg per day, although most will ultimately require 0.6 to 0.7 units per kg per day. Adolescents, especially during puberty, often need more, but the dose can be adjusted upward every few days based upon blood glucose measurements.</li> <li>I. In designing an MDI regimen, one-half of the total dose should be given as a basal insulin, either as once per day long-acting insulin (glargine or determin) or as twice per day intermediateacting insulin (NPH). The long-acting insulin can be given either at bedtime or in the morning; the NPH is usually given as two-thirds of the dose in the morning and one-third at bedtime. The remainder of the total daily dose (TDD) is given as short or rapid-acting insulin, divided before meals. The pre-meal dosing is determined by the usual meal size and content. The slidingscale that is constructed for premeal use usually takes into account the carbohydrate content and the blood glucose levels before the</li> </ul>				
<ul> <li>A) It may be used for either type 1 or type 2 diabetes</li> <li>B) It may be used as monotherapy for type 2 diabetes, in addition to diet and exercise</li> <li>C) Hypoglycemia is a common side effect</li> <li>D) It may help with weight reduction</li> </ul>				
<b>08-029.</b> +End+Adm. Which one of the following medications should be discontinued in a patient with diabetic gastroparesis?				
<ul><li>A) Exenatide (Byetta)</li><li>B) Benazepril (Lotensin)</li></ul>				
<ul><li>C) Metformin (Glucophage)</li><li>D) Hydrochlorothiazide</li><li>E) Prochlorperazine maleate</li></ul>				
<b>08-108.</b> +End+Adm. A 55-year-old white male sees you for a routine annual visit. His fasting blood glucose level is 187 mg/dL. Repeat testing 1 week later reveals a fasting glucose level of 155 mg/dL and an HbAlc of 9.4%. His BMI is 30 kg/m2. He does not seem to have any symptoms of diabetes mellitus. In addition to lifestyle changes, which one of the following would you prescribe initially? A) Metformin (Glucophage) B) Glyburide (DiaBeta, Micronase) C) Rosiglitazone (Avandia)				
E) Bedtime los	ng-acting insulin (L ng-acting insulin and +Cca. A 15-vear-old	d rapid-acting		
<b>08-118.</b> +End+Cca. A 15-year-old male presents for a routine evaluation. He has no complaints. He has a BMI of 30 kg/m2, which places him in the 97th percentile for his age. The remainder of his examination is normal; however, a random blood glucose level is 162 mg/dL. Which one of the following would be				
the most appro A) Obtain a fa	opriate next step for sting blood glucose	this patient? level		-
<ul><li>B) Start metformin (Glucophage), 500 mg daily, and follow up in 4 weeks</li><li>C) Order a hemoglobin A1c level</li><li>D) Advise the patient to start a weight-loss program and follow up in 4 weeks</li></ul>				

for treating adolescents with type 2 diabetes mellitus include weight loss through

dietary modification and exercise.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
mellitus is admitted to a nursing home. His blood glucose level, which he rarely checks, is typically over 200 mg/dL. His serum creatinine level is 1.9 mg/dL. He also has had several episodes of heart failure. His current medications include glipizide (Glucotrol), lisinopril (Prinivil, Zestril), and furosemide (Lasix). Which one of the following would be most appropriate to add to this patient's regimen to treat his diabetes mellitus? A) The American Diabetes Association 1800-calorie/day diet B) Metformin (Glucophage) C) Pioglitazone (Actos) D) Exenatide (Byetta) E) Insulin glargine (Lantus)	term care facilities, the predictable glucose control of glargine is the best approach to consider initially. The American Diabetes Association does not recommend a strict diet for frail diabetic patients in nursing homes. Exenatide is not recommended for the frail elderly because of concerns about weight loss and nausea. Heart failure precludes the use of pioglitazone, and renal failure precludes the use of metformin.
<ul> <li>08-166. +End+Adm. Which one of the following most increases insulin sensitivity in an overweight patient with diabetes mellitus?</li> <li>A) Metformin (Glucophage)</li> <li>B) Acarbose (Precose)</li> <li>C) Glyburide (DiaBeta, Micronase)</li> <li>D) NPH insulin</li> <li>08-170. +End+Adm. The blood pressure goal for a patient who has uncomplicated diabetes mellitus is</li> <li>A) 140/80 mm Hg</li> <li>B) 130/80 mm Hg</li> <li>D) 110/80 mm Hg</li> <li>E) 110/70 mm Hg</li> </ul>	<ul> <li>DM I/ DM II. 08-166. Metformin increases insulin sensitivity much more than sulfonylureas or insulin. ANS=A. This means lower insulin levels achieve the same level of glycemic control, and may be one reason that weight changes are less likely to be seen in diabetic patients on metformin. Acarbose is an a-glucosidase inhibitor that delays glucose absorption.</li> <li>DM I/ DM II. 08-170. Aggressive control of blood pressure to &lt;135/85 mm Hg in hypertensive patients and to &lt;130/80 mm Hg in diabetic patients is recommended. ANS=B. Lowering blood pressure may reduce stroke rates by 40%–52% and cardiovascular morbidity by 18%–20%.</li> </ul>
<ul> <li>08-193. +End+Adm. A 40-year-old female comes to your office for a routine examination. She has been in good health and has no complaints other than obesity. Her mother is diabetic and the patient has had a child that weighed 9 lb at birth. Her examination is negative except for her obesity. A fasting glucose level is 128 mg/dL, and when repeated 2 days later it is 135 mg/dL. Which one of the following would be most appropriate at this point?</li> <li>A) Diagnose type 2 diabetes mellitus and begin diet and exercise therapy</li> <li>B) Begin an oral hypoglycemic agent</li> <li>C) Order a glucose tolerance test</li> <li>D) Tell the patient that she has impaired glucose homeostasis but is not diabetic</li> </ul>	DM I/ DM II. 08-193. Criteria. ANS=A. The <u>criteria for diagnosing diabetes</u> mellitus include any one of the following: <u>symptoms of diabetes (polyuria,</u> <u>polydipsia, weight loss) plus a casual glucose level ≥200 mg/dL; a fasting</u> <u>plasma glucose level ≥126 mg/dL; or a 2-hour postprandial glucose level ≥200</u> <u>mg/dL after a 75-gram glucose load. In the absence of unequivocal</u> <u>hyperglycemia the test must be repeated on a different day.</u> The criteria for <u>impaired glucose homeostasis</u> include either a fasting glucose level of 100–125 <u>mg/dL (impaired fasting glucose) or a 2-hour glucose level of 140–199 mg/dL</u> on an oral glucose tolerance test. <u>Normal values are now considered &lt;100</u> <u>mg/dL for fasting glucose and &lt;140 mg/dL for the 2-hour glucose</u> level on an oral glucose tolerance test.
<ul> <li>08-226. +End+Cca. An 18-year-old male seen in your office is found to be overweight and to have acanthosis nigricans. Both of his parents have a history of diabetes mellitus. His fasting plasma glucose level is 111 mg/dL (N &lt;100). Which one of the following is the correct diagnosis?</li> <li>A) Prediabetes</li> <li>B) Type 1 diabetes mellitus</li> <li>C) Type 2 diabetes mellitus</li> <li>D) Maturity-onset diabetes of the young</li> <li>A variety of lab tests and clinical signs help to provide the critical information needed to correctly determine which type of diabetes the person has:</li> <li>Ketones: are a byproduct produced when the body uses large amounts of fat as fuel. This occurs when carbohydrate is no longer available as fuel due to a lack of insulin. When a urine or blood test shows large amounts of ketones, that person definitely has Type 1 or insulin dependent diabetes. (One rare exception is young, black males) who can have ketones at diagnosis but regain insulin production. If insulin is injected before the ketone test is administered, the opportunity to find large amounts of ketones may have passed. Antibodies: Type 1 diabetes is an autoimmune disease, so 80 to 90% of the time when Type 1 exists, the person is producing antibodies characteristic of Type 1, such as the islet cell antibodies are present. If antibodies specific to Type 1 are detected, the person already has or is likely to develop Type 1 diabetes. These tests are currently used in the DPT-1 trial to test relatives of those with Type 1 diabetes and detect who will develop this disease. High triglyceride and low HDL: Cholesterol problems characterized by high triglycerides and low HDL are typical of insulin resistance. These markers for Syndrome X are commonly found in Type 2 diabetes. A detailed cholesterol test or lipid profile test will determine this.</li> <li>Uric Acid: The high uric acid level often found in people with gout is a component of Syndrome X. If a person has a high uric acid level and high blood sugars, he u</li></ul>	DM I/ DM II. 08-26. This patient has prediabetes, which is defined as having a fasting plasma glucose level of 101–125 mg/dL. ANS=A. These patients are at high risk for developing diabetes mellitus later in life. Prediabetes is associated with metabolic syndrome, and weight loss, exercise, and certain pharmacologic agents have been shown to prevent or delay the subsequent development of diabetes mellitus. Diabetes mellitus is diagnosed in three ways: symptoms of diabetes (polyuria, polydipsia, unexplained weight loss) plus a random plasma glucose level ≥200 mg/dL; a fasting plasma glucose level ≥126 mg/dL; or a glucose level ≥200 mg/dL on a 2-hour 75-g oral glucose tolerance test. It is important to note that in the absence of unequivocal hyperglycemia the diagnosis must be confirmed by repeat testing on a subsequent day. Once the diagnosis of diabetes is confirmed, further testing is needed to differentiate between type 1, type 2, and maturity-onset diabetes of youth.
body. If C-peptide is normal or high, Type 2 diabetes is likely. If the level is significantly low, Type 1 diabetes is likely. For more info, visit: http://www.diabetesnet.com/diabetes_types/whatype.php#ixzz1F12LgM6D 09-014. +End+Cca. Which one of the following injection sites for insulin	DM I/ DM II. <b>09-014. DM I. ANS: B.</b> The use of a <b><u>nonexercised injection site</u></b>
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 48 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Indivision shows how have to participate in track and field running events?         A) Arm         For insulin administration, is carcles-induced hopepteer           A) Arm         B) Addomen         C) Rip         D) Addomen           C) Rip         D) Calf         Ended the participate in track and field running events?           A) Arm         D) Addomen         The participate in track and field running events?           D) Addomen         C) Rip         Diff. The Participate in track and field running events?           D) Addomen         C) Rip         Diff. The Participate in track and field running events?           Diff. The Participate in track and field running events?         Diff. The Participate in track and field running events?           Diff. The Participate in track and field running events?         Diff. The Participate in track and field running events?           A) Peripheral neuropathy         Diff. Pool Infections         Diff. Pool Infections           Diff. Pool Infections         Diff. Pool Infections         Diff. Pool Infections           Diff. Pool Infections         Diff. Pool Participate in the participate in track and field running events?           Diff. Pool Infections         Diff. Pool Participate in the partine participate in the partine participate in the partine	for the sole personal use of Dr. Mario Alberto Jimenez
diabetes mellitus who wishes to participate in track and field running events? A) Arm B) Abtomen C) Hip D) Calif E) Thigh D) Foldineau PO-104, -tEnd-Mac. A 35-year-old white gravida 2 para 1 sees you for her initial metformin (flucto-plage). A recent hemoglobia h Alevel was 5.5%, You should now treat her diabetes with A) metformin B) acarbose (Precose) C) pioglitzaone (Actos) D) human insulin <b>09-094</b> , +End+Adm. In patients with type 2 diabetes mellitus, intensive glycemin diabete: complications? A) Peripheral neuropathy B) Peripheral neuropathy B) Peripheral neuropathy B) Port infections C) cardiovascular distasse D) Portifications et the diabetes with type 2 diabetes mellitus, intensive glycemin diabete: complications? B) Neuropathy and in patients b) Portification and yeaks distances B) Port infections D) Portifications et the diabetes with type 2 diabetes mellitus, intensive glycemin diabetes complications? B) Neuropathy and in patients b) Portification and yeaks distances B) Portification a	i, such as the abdomen, may reduce the risk of
<ul> <li>A) Arm</li> <li>B) Abdomen</li> <li>C) Hip</li> <li>D) Calf</li> <lid) calf<="" li=""></lid)></ul>	cemia. If the leg is used as an injection site, exercise
B) Abdomen       However, leg exercise has no         C) Hip       The problem in the problem is	rption, resulting in increased levels of plasma insulin.
D) Calf       sites. Compared with legingly         P:Thigh       hypeglycenia (cfic of excer)         09-017, +End+Mae. A 35-year-old white gravida 2 para 1 sees you for her initial       iomain). Leading to the poor         07-014, +End+Adm. Chice delivering her first child 10 years ago, she has developed type       iomain). Leading to the poor         07-014, +End+Adm. In patients with type 2 diabetes mellitus, intensive glycemia       iomain). Leading to the poor         07-014, +End+Adm. In patients with type 2 diabetes mellitus, intensive glycemia       iomain). Leading with a patients         07-014, +End+Adm. Nuch one of the following is more likely to occur with pipride (Clocorol) than with metformin (Glucophage)?       D/N // DM 11, 09-045, Letter and the set of the control hemoglobin Alc of hyperglycemia and there are algents is the control hemoglobin Alc of hyperglycemia and there are algents is the set of the control hemoglobin Alc of hyperglycemia and there are algents is the control hyperglycemia and there are algents is the control hemoglobin Alc of the control hemoglobin A	no effect on insulin disappearance from the arm and
D) Calf       sites. Compared with gravida 2 para 1 sees you for her initial       by peglycenic (eff cet cet cet cet of exerci of exerci of exerci pernatal visits. Such as kept her disease 1c under excellent control by taking         2 diabetes mellitus. She has kept her disease 1c under excellent control by taking       by M // DM 11. 09-017. In preg diversite (ff cet of exerci on insulin), leading to the pote for these reasons, plus the react feat macrosomia addiabetes mellitus. She has kept her disease 1c under excellent control by taking         09-094. +End+Adm. In patients with type 2 diabetes mellitus, intensive glycemi       DW // DM 11. 09-094. Intension advocates the uneropath yab Peripheral neuropath yab. Peripheral neuropath yab.         0. Portport neuropathy       D) Proiffrative retinopathy       D) Proiffrative retinopathy         0. Portport neuropathy       D) Proiffrative retinopathy       D) Proiffrative retinopathy         0. Portport neuropathy       D) Proiffrative retinopathy       D) Proiffrative retinopathy         0. D) Castrointestinal distress       D) Proiffrative retinopath       D) M // DM 11. 09-096. Glipizit         0. D) Gastrointestinal distress       D) Proiffrative retinopathy       DM // DM 11. 09-096. Glipizit         0. D) Gastrointestinal distress       DM // DM 11. 09-096. Glipizit       DM // DM 11. 09-096. Glipizit         0. D) Gastrointestinal distress       DM // DM 11. 09-096. Glipizit       DM // DM 11. 09-096. Glipizit         0. D) Gastrointestinal distress       DM // DM 11. 09-149. Metfor	e of insulin disappearance from abdominal injection
09-017. +End+ Mac. A 35-year-old white gravid. 2 para 1 sees you for her initial preprior line (anding to the pool insuiti). Landing to the pool insuiti). Landing to the pool insuiti). Landing to the pool insuition. Landing to the pool insuition. Landing to the pool insuition. Landing to the pool induction and the predict of an uncompany. A second here of the following diabetic complications?       DM I/ DM II. 09-047. In preg to insuitin, leading to the pool induction advocates the us of vaccus plating and the predict of an uncompany. A second here of the following diabetic complications?         09-094. +End+Adm. In patients with type 2 diabetes mellitus. Intensive glycenic complications?       DM I/ DM II. 09-094. Intensive glycenic diabetes mellitus. Intensive glycenic diabetes mellitus. Intensive glycenic complications?         D Poolinections       D rediversative relinopathy         D Poolinections       D rediversative relinopathy         D Poolinections       D weightion and in patients of hyperglycenia also has a britter mellitus. Intert, the control (Remopolion Al to 60 such as the edderly and theorem of the following is more likely to occur with glipizide (Clucotrol) than with metformin (Clucophage)?         A) Lactic acidosis       DM I/ DM II. 09-096. (Filipsi di also sees the averge 180 molts, despite reasonable adherence to a data and exercise regimen, he has prepradial and bedrime finger-stick blood I c glucose levels that average 180 mg/dL. His hengolian Al to 50 (Clabeta) C (Stagliptin (Januvia) D)         D Pi-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is force of the following should be ordered before initiating reatmany could have a fasting plasma glucose level of 175 mg/dL on twoo occasions. Over the act6 following should b	jection, arm or abdominal injection reduces the
09-017. +End+ Mac. A 33-year-old white gravid. 2 paral 1 sex you for her initial prepatal visit. Since delivering her fract hild 10 years ago, sha as developed type to insuffin, leading to the pote of these reasons, plus the rereduce feal macrosonia and 1. New Years 6.5%, You should now treat her diabetes with Ay metformin B) acarbose (Precose) (2) piglilazone (Actos) D1 human insuffin       DM 1/ DM 11. 09-047. Lineas the user of the following diabetic complications?         09-094. +End+Adm. In patients with type 2 diabetes mellitus, Interstve glycemic complications?       DM 1/ DM 11. 09-049. Lineas there is the short of the following diabetic complications?         09-094. +End+Adm. Which one of the following is more likely to occur with glipizide (Glucotrol) than with metformin (Glucophage)?       DM 1/ DM 11. 09-096. Glipized is the short of the following is more likely to occur with glipizide (Glucotrol) than with metformin (Glucophage)?         09-096. +End+Adm. Which one of the following is more likely to occur with glipizide (Glucotrol) than with metformin (Glucophage)?       DM 1/ DM 11. 09-096. Glipized is the occur with glipizide (Glucotrol) than with metformin (Glucophage)?         09-096. +End+Adm. Abuse the ensonable adhrence to a data and exercise regimen, he has prepradual and bedtime finger-stick blood 1 c glucose levels that average 180 mg/dL. His hengolibia A is 9.0%       DM 1/ DM 11. 09-096. Glipized is 0.0%         09-104. +End+Adm. Abuse the ensonable adhrence to a data and exercise regimen, he has prepradual and bedtime finger-stick blood 1 c glucose levels that average 180 mg/dL. His hengolibia A is 9.0%       DM 1/ DM 11. 09-149. Metfor ant duces mellitus for 1. New gravitowatic for the second distast mellines in a symptomatic wexing for the second distast mellines hand re	rcise by approximately 60% and 90%, respectively.
prenatulysit, Since delivering her first child 10 years ago, she has developed type         to         insulin), leading to the poot           2 diabets mellitus. She has keyther disease Ic under excellent control by taking         for these reasons, plus the reason, plus the reason, plus the reason, plus the reason is and association advocates the use           (Actos) D) human insulin         00-094, Field-Adm. In patients with type 2 diabetes mellitus, intensive glycemic control has not been shown to be beneficial for which one of the following diabetic complications?         DM I/ DM II. 09-094, Field-Adm. IN programment is the second diabetes mellitus, but it is boot of hyperglycemia. With a goot reduce microascular disease         DM I/ DM II. 09-094, Field-Adm. Which one of the following is more likely to occur with glipzide (Glucotrol) than with metformin (Glucophage)?         DM I/ DM II. 09-096, Field-Adm. Which one of the following is more likely to occur with glipzide (Glucotrol) than with metformin (Glucophage)?         DM I/ DM II. 09-096, Field-Adm. Which one of the following is more likely to occur with glipzide (Glucotrol) than with metformin (Glucophage)?         DM I/ DM II. 09-096, Field-Adm. Which one of the following is more likely to occur with glipzide (Glucotrol) than with metformin (Glucophage)?           09-112, +End+Cca. An overweight 11-year-of male with acanthosis nigricans is found to have a fasting plasma glucose level of 175 mg/dL on two occasions.         DM I/ DM II. 09-112, n-thil weight of the control (forming collabels). A s 0.0%, which one of the following or agent is thin weight or any more more of adeates mellitus for any more more of the following is and that set of the control (forming collabels). A s 0.0%, which one of the following or agent is the operator of the collabels.	regnancy. All oral agents cross the placenta (in contrast
metformin (Glucophage). A recent hemoglobin A level was 6.5%. You should only real the diabetes with Jup 2 diabetes mellitus, intensive glycenic control has not been shown to be beneficial for which one of the following diabetic complications? A log Peripheral neuropathy B) Foot infections C) Cardiovascular disease D) Porifierative retinopathy E) Nephropathy E) Ne	otential for severe neonatal hypoglycemia. ANS=D.
now treat her diabetes with A) metformin B) acarbose (Precose) C) pioglitazone (Actos) D) Annuma insuin (Actos) D) Annum	requirement for exquisitely tight glucose control to
now treat her diabetes with A) metformin B) acarbose (Precose) C) pioglitazone (Actos) D) Annuma insuin (Actos) D) Annum	d organ dysgenesis, the American Diabetes
09-094, +End+Adm. In patients with type 2 diabetes mellitus, intensive glycenic control has not been shown to be beneficial for which one of the following diabetic complications?     DM // DM II. 09-094, Litters produce and the shown to be beneficial for which one of the following diabetic complications?       A) Peripheral neuropathy D) Footifrative retinopathy D) Footifrative retinopathy D) Footifrative retinopathy D) Footifrative retinopathy D) Footifrative retinopathy D) Footifrative retinopathy D) Footifrative retinopathy dipizide (Glucotrol) than with metformin (Glucophage)?     OH // DM II. 09-096, Glipizi, Bound to have a fasting plasma glucose level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, he has preprandial and bedtime finger-stick blood Le glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following or agents would be most appropriate at this itme? A) Serue lectocise D Actionable adherence before initiating retarement with metformin (Glucophage)? A) Serue lectocise D Actionable adherence before initiating retarement with metformin (Glucophage)? A) Serue lectocise D Actionable adherence before initiating retarement with metformin (Glucophage)? A) Serue lectocise D Actionable adherence before initiating retarement with metformin (Glucophage)? A) Serue lectocise D Actionable adherence before initiating retarement with metformin (Glucophage)? A) Serue lectocise D Actionable adherence before initiating retarement with no risk factors for this condition is A) in the first timester D) A lipid panel E) A dlyroid panel 09-214, ±428 wecks gestation D) at 33-37 wecks gestation	use of human insulin for pregnant women.
<ul> <li>control has not been shown to be beneficial for which one of the following diabetic complexitons?</li> <li>A) Peripheral neuropathy</li> <li>B) Foot infections</li> <li>C) Aradiovascular disease</li> <li>D) Proliferative retinopathy</li> <li>E) Nephropathy</li> <li>B) Pipoty infections</li> <li>Glucotrol) than with metformin (Glucophage)?</li> <li>A) Lactic acidosis</li> <li>B) Hyoglycemia</li> <li>Q) Pil2. +End+Adm. Which one of the following is more likely to occur with glipizide (Glucotrol) than with metformin (Glucophage)?</li> <li>A) Lactic acidosis</li> <li>B) Hyoglycemia</li> <li>Q) Gastrointestinal distress</li> <li>Q) acta a fasting plasma glucose level of 175 mg/L on two occasions.</li> <li>Over the next of months, despite reasonable adherence to a dire and exercise regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that average 180 m forthogen biols in \$9.07\$. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?</li> <li>A) Metformin (Glucophage)?</li> <li>A) Metformin (Glucophage)</li> <li>DM // DM II. 09-142. Inchidue addises.</li> <li>DM // DM II. 09-142. Inchidue addises.</li> <li>DM // DM II. 09-142. Inchidue addises.</li> <li>Dipogliazone (Actos) ED Acarbose (Precose).</li> <li>D9-138. I-End+Adm. A50-ycear-oid African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?</li> <li>A) actic trimester</li> <li>D) at 3-37 weeks gestation</li> <li>D) at 3-40 weeks gestation</li> <li>D) at 2-20 modiu with metformin (Glucophage)?</li> <li>D) At DM II. 09-227. ANS-with diabetes mellitus Nice and the next remestry wergene and theacore for disciparation with a careage of this patient?</li></ul>	
<ul> <li>control has not been shown to be beneficial for which one of the following diabetic complexitons?</li> <li>A) Peripheral neuropathy</li> <li>B) Foot infections</li> <li>C) Aradiovascular disease</li> <li>D) Proliferative retinopathy</li> <li>E) Nephropathy</li> <li>B) Pipoty infections</li> <li>Glucotrol) than with metformin (Glucophage)?</li> <li>A) Lactic acidosis</li> <li>B) Hyoglycemia</li> <li>Q) Pil2. +End+Adm. Which one of the following is more likely to occur with glipizide (Glucotrol) than with metformin (Glucophage)?</li> <li>A) Lactic acidosis</li> <li>B) Hyoglycemia</li> <li>Q) Gastrointestinal distress</li> <li>Q) acta a fasting plasma glucose level of 175 mg/L on two occasions.</li> <li>Over the next of months, despite reasonable adherence to a dire and exercise regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that average 180 m forthogen biols in \$9.07\$. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?</li> <li>A) Metformin (Glucophage)?</li> <li>A) Metformin (Glucophage)</li> <li>DM // DM II. 09-142. Inchidue addises.</li> <li>DM // DM II. 09-142. Inchidue addises.</li> <li>DM // DM II. 09-142. Inchidue addises.</li> <li>Dipogliazone (Actos) ED Acarbose (Precose).</li> <li>D9-138. I-End+Adm. A50-ycear-oid African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?</li> <li>A) actic trimester</li> <li>D) at 3-37 weeks gestation</li> <li>D) at 3-40 weeks gestation</li> <li>D) at 2-20 modiu with metformin (Glucophage)?</li> <li>D) At DM II. 09-227. ANS-with diabetes mellitus Nice and the next remestry wergene and theacore for disciparation with a careage of this patient?</li></ul>	nsive glycemic control has not been shown to be
<ul> <li>A) Peripheral neuropathy</li> <li>B) Foot infections</li> <li>C) atdivascular disease</li> <li>D) Proliferative retinopathy</li> <li>E) Nephropathy</li> <li>M) Prophysical atdivascular disease</li> <li>D) Proliferative retinopathy</li> <li>E) Nephropathy</li> <li>M) Prophysical atdivescular disease</li> <li>O) Poper disease</li> <li>O) Poperificase</li> <li>O) Poper disease</li> <li>O) Poper</li></ul>	lar disease reduction in patients with type 2
B) Foci infections       refuce microvsecular comp         C) Cardiovsacular disease       meuropathy and SPSC: Foci in neuropathy and SPSC: Foci in SPSC: Foci in SPSC:	beneficial in type 1 diabetes. Intensive management
C) Cardiovascular disease       neuropathy. And in patients.         D) Profiferative retinopathy       site elderly and in patients.         E) Nephropathy       site elderly and in patients.         O'-096, +End+Adm. Which one of the following is more likely to occur with glipizide (Glucorol) than with metformin (Glucophage)?       DM I/ DM II. 09-096. Glipizi di control (hemogolin Al c. edi control (hemogolin Al c. edi control (hemogolin Al c. edi such as the elderly and these such as the elderly and these such as the elderly and the such as the el	goal of achieving nondiabetic glucose levels, helps
D) Prodiferative retinopathy       neuropathy and in patients         E) Nephropathy       of hyperglycemia also has a b with type 1 diabetes mellitus. In fact, the control (hemoglobin Al c 6 such as the elderly and these fully addited (glucotrol) than with metformin (Glucophage)?       by Hyperglycemia (b) the first integrate and the patient of the first time?         09-1926, +End+Adm. Which one of the following is more likely to occur with glipizide (Glucotrol) than with metformin (Glucophage)?       by Hyperglycemia (c) weight loss         (D) Weight loss       biguaride used as an oral anti of the rare agents for the control of metformin request is thin while rare, can occur in path other agents for the control of metformin request is with segme the set of moths, despite reasonable adherence to a diet and exercise regimen, he has preprandial and bedtime finger-srick blood Le glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents would be most appropriate at this time?         A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Pioglitazone (Actos) E) A carbose (Precose)       DM I/ DM II. 09-149. Metfor patients with roots factors for this condition is alymother on risk factors for this condition is (b) at 16-20 weeks gestation       DM I/ DM II. 09-149. Metfor patients with action of he following should be ordered before inditing regime. When setters         09-206. +End+Adm. A 50 syear-old white male who has had diabetes mellitus for (actos) E) Acarbose (Precose)       DM I/ DM II. 09-149. Metfor patients with readed size or alymother setters         0) at the first trimester       D) at the first trimestor a trutine evaluation. He sasy that ha has been tohered by muti	nplications such as retinopathy, nephropathy, and
E) Nephropathy       of hyperglycemia also has a bigitizid.         09-096, +End+Adm. Which one of the following is more likely to occur with glipizid (Glucotrol) than with metformin (Glucophage)?       DM // DM II. 09-096. Glipizid States and the state acidosis         B) Hypoglycemia       DM // DM II. 09-096. Glipizid       DM // DM II. 09-096. Glipizid States and the state acidosis         09-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is found to have a fasting plasma glucose level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a dict and exercise regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that average 180 mg/dL. His hemeglohin A is 90/66. Which one of the following oral agents submit of the strenge of the formin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Pioglitazone (Acos) E) A cambro effections         09-112. +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellius. Which one of the following should be ordered before initiaing treatment with metformin (Glucophage)?       DM I/ DM II. 09-149. Metfor patients with renal disfuent insignmentation is also the stores for gestational diabetes in asymptomatic women with no risk factors for this condition is 2 and the works gestation       DM I/ DM II. 09-181. DM, go server for gestational diabetes in asymptomatic no. Fisk equation by end levels C) A CBC         09-206. +End+Adm. No usee a 30-year-old white male who has had diabetes mellitus for boothered by multiple skin levions on the acter of beselling. Nucleo and the stores of the polycycemia. He was previously stable and the next complexemalities and end and the most increased fisk for A) diabetes mellitus. buth sigucose level on dmission is 215	t infections are less common in patients without
<ul> <li>with Type I diabetes mellitus. In fact, the control (hemoglobin Al c -6 such as the elderly and these such as the elderly and these control (hemoglobin Al c -6 such as the elderly and these control (hemoglobin Al c -6 such as the elderly and these control (hemoglobin Al c -6 such as the elderly and these control (hemoglobin Al c -6 such as the elderly and these control (hemoglobin Al c -6 such as the elderly and these control of metrormin reduces insulin level of 0 Gastroinin reduces insulin level of 0 Gastroinin reduces insulin level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, he has prepradial and bedime finger-stick blood 1c glucose level bit with renal dvsfunce initiating treatment with metformin (Glucophage)? A) Metformi (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Piopliazone (Actos) E) Acarbose (Precose)</li> <li>DO-140. #Ad-dm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following shall be ordered before initiating treatment with metform (Glucophage)? A) Serum electrolytes B) A startime treatment evel C &gt; A CBC</li> <li>D) All / DM II. 09-181. DM, gestrational diabetes on the order by setation B) at 16-20 weeks gestation C) at 23-37 weeks gestation C) at 23-37 weeks gestation C) at 23-37 weeks gestation C) at 24-28 weeks gestation C) and the most common location is a physical activity D) Insulin antibodies</li> <li>DM I/ DM II. 09-206. DM I. Thy OP-120 mg/dL C) modered the fore of the following is the most appropriate target g</li></ul>	ts with good glycemic control. Intensive management
diabetes mellitus. In fact, the control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly and these control (hemoglobin A1 c < 6 such as the elderly a	a beneficial effect on cardiovascular disease in patients
diabetes mellitus. In fact, the control (hemoglobin A1 c < 6 such as the elderly and these of plipizide (Glucorol) than with metformin (Glucophage)?	is but, unfortunately, not in patients with type $2$
control (hemoglobin AL columns)           09-096. +End+Adm. Which one of the following is more likely to occur with glipizide (Glucotrol) than with metformin (Glucophage)?         DM I/ DM II. 09-096. Glipizi biguandie used as an oral and in the elderly used as an oral and the some other oral agents is the volter agents for the control of metformin reduces insulin level () Weight loss           09-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is found to have a fasting plasma glucose level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, he has preparadial and bedtime finger-stick blood Le glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents would be most appropriate at this time?         DM I/ DM II. 09-112. In child agents approved for treatment with metformin (Glucophage)?           A) Metformin (Glucophage)         DM I/ DM II. 09-149. Metfor patients with reanal dysfunction is asymptomatic women with no risk factors for this condition is aly in the first timester         DM I/ DM II. 09-149. Metfor patients with reanal dysfunction is asymptomatic women with no risk factors for this condition is aly on the first hemester           09-180. +End+Adm. A 35-year-old White male who has had diabetes mellitus for 0 are of the following is the most likely cause of the hypoglycemia? A)         DM I/ DM II. 09-130. Metfor patients with ashas to recently changed his diet or insulin regimen. Which one of the following is that heaks been bothered by multiple skin leason othe neek and axillae. On examination you note numerous skin tags. The presence of these pelsons indicets an increased risk for A) diabetes mellitus, but his glucose level on drissin siz 15 mg/dL and insulin therapy is ordered. Which one of the	here is data to suggest that intensive glycemic
such as the elderly and those           09-096. +End+Adm. Which one of the following is more likely to occur with glipizide (Glucotrol) than with metformin (Glucophage)?         Such as the elderly and those           A) Lactic acidosis         B) Hypoglycemia         Box as an oral anti some other oral agents is this           D) Gastrointestinal distress         Box as an oral anti some other oral agents is this         Some other oral agents is the other agents for the control of metformin reduces insulin lev- even a weight loss effect. Gas metformin, particularly early           O9-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is found to have a fasting plasma glucose level of 175 mg/L. on two occasions.         DW I/ DM II. 09-112. In chila agents sould be most appropriate at this time?           A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Pioglitazone (Actos) E) A carbose (Precose)         DM I/ DM II. 09-149. Metfor patients with renal dvs/met incidence of lactic acidosis.           09-149. +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?         DM I/ DM II. 09-149. Metfor patients with renal dvs/met incidence of lactic acidosis.           0) A Lipid panel E) A thyroid panel         DM I/ DM II. 09-181. DM. gg screen for gestational diabetes           0) at jaid panel HE) A thyroid panel         DM I/ DM II. 09-206. DM I. hypoglycemia. He was previously stable and well controlled and has not recently changed his due to insulin reggimen. Which on of the elolowing is the most likely coaus of t	< 6.5) may be detrimental in certain populations,
09-06, 4-End+Adm, Which one of the following is more likely to occur with glipizide (Glucorol) than with metformin (Glucophage)?       DM I/D MI 10 90-06, Glipizi biguatide used as an oral anti biguanide used as anoral antibiguanide used as antibal anti biguanide used a	ose with cardiovascular disease.
glipzide (Glucotrol) than with metformin (Glucophage)?       biguanie used as an oral anti some other oral agents is the while rare, can occur in pair other general agents is the while rare, can occur in pair other general agents is the some other oral agents is the while rare, can occur in pair other general agents is the some other oral agents is the while rare, can occur in pair other agents agence or in agents agence other oral agents is the while rare, can occur in pair other agence other oral agents is the while rare, can occur in pair other agence other oral agents is the some other oral agents agence other oral agents is the some other oral other agence other oral agents is the while rare, can occur in pair other agence other oral agents agence other oral agents is the while rare, can occur in pair other agence other oral agents agence other oral agents agence other oral agents is the while rare, can occur in pair other oral agents agence other agence othere oral agents agence other oral agents age	izide vs. metformin. ANS=B. Metformin is a
<ul> <li>A) Lactic acidosis</li> <li>B) Hypoglycemia</li> <li>C) Weight loss</li> <li>D) Gastrointestinal distress</li> <li>OP-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is found to have a fasting plasma glucose level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents would be most appropriate at this time?</li> <li>A) Metformin (Glucophage) B (Jyburide (DiaBeta) C) Stagliptin (Januvia) D) Pioglitazone (Actos) E) Acarbose (Precose)</li> <li>OP-149. Hend+Adm. A 0-year-old Artina-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?</li> <li>A) Serum cleartine level C) A CBC</li> <li>D) A 15D-181. DM, gascreen for gestational diabetes in asymptomatic women with no risk factors for this condition is 3) at 6-20 weeks gestation</li> <li>D) at 35-37 weeks gestation</li> <li>D) 2206. +End+Adm. A 5-5year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has on tecently changed his dict or insulin regime. Which one of the following is the most appropriate target glucose low law for her Adm. A 55-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia? A)</li> <li>Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D Insulin antibodies</li> <li>OP-227, +End+Adm. You see a 30-year-old white male for the first time for a routin evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of thecell functional physical activity after 20 years of therapy) wo</li></ul>	ntidiabetic agent. One of its main advantages over
B) Hypoglycemia       while rase, can occur in pati         C) Weight loss       other agents for the control of         D) Gastrointestinal distress       even a weight loss effect. Gas         09-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is       found to have a fasting plasma glucose level of 175 mg/dL on two occasions.         00 over the next 6 month, despite reasonable adherence to a diet and exercise       metformin (Paticeal structure)         regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that       average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral         agents would be most appropriate at this time?       A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D)         Proglitzone (Actos) E) Acarbose (Precese)       DM I/ DM II. 09-149. Metfor         09-149. +End+Adm. A 60-year-old African-American male is found to have type       2 diabetes mellitus. Which one of the following should be ordered before         initiating treatment with metformin (Glucophage)?       M I/ DM II. 09-181. DM, gescreen for gestational diabetes in asymptomatic women with no risk factors for this condition is         A) in the first timester       DM I/ DM II. 09-206. DM I.         09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for a contexity charged his diet or insulin regimen. Which one of the following is the most alively cause of the hypoglycemia? A)       DM I/ DM II. 09-206. DM I.         09-227. +End+Adm. You see a 30-year-old white male for	that it does not cause hypoglycemia. Lactic acidosis,
C) Weight loss       oher agents for the control of metformin reduces insulin leve even a weight loss effect. Gas metformin, particularly early         09-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is found to have a fasting plasma glucose level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, the has preparadial and bedtime finger-stick blood 1c glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents would be most appropriate at this time?       DM I/ DM II. 09-112. In child agents approved for treatment of the following oral agents would be most appropriate at this time?         09-149. +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?       DM I/ DM II. 09-149. Metfor patients with renal dwsfunct incidence of lactic acidosis.         0) A lipid panel E) A thyroid panel       DM I / DM II. 09-181. DM, gs screen for gestational diabetes in asymptomatic women with no risk factors for this condition is A) at 35-37 weeks gestation       DM I / DM II. 09-181. DM, gs screen for gestational diabetes mellitus. Which one of the following is the most likely cause of the hypoglycemia. A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies       DM I / DM II. 09-226. DM I. hypoglycemia? A)         09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axilhae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus	atients with renal impairment. In contrast to most
D) Gastrointestinal distress       metformin reduces insulin leveren a weight loss effect. Gast metformin, particularly early op-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is found to have a fasting plasma glucose level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, he has preprandial and bedtime finger-stick blood le glucose levels that average 180 mg/dL. His hemogloin A is 9.0%. Which one of the following oral agents would be most appropriate at this time?       DM I/ DM II. 09-112. In child agents approved for treatment of the moglobic has 9.0%. Which one of the following oral agents would be most appropriate at this time?         A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D)       DM I/ DM II. 09-149. Metfor patients with renal dvsfunct initiating treatment with metformin (Glucophage)?         A) Serum electrolytes B) A serum creatinine level C) A CBC       DM I/ DM II. 09-181. DM, gost screen for gestational diabetes in asymptomatic women with no risk factors for this condition is A) in the first trimester         B) at 16 -20 weeks gestation       DM I / DM II. 09-181. DM, gost screen for gestational diabetes mellitus for 2 of 2 ar-28 weeks gestation         D) at 35-37 weeks gestation       DM I / DM II. 09-186. DM I. thypoglycemia? A) spontaneous improvement of B-cell function B) Renal disease C) Reduced pheres an increased risk for A) diabetes mellitus and on the head wallae. On examination you note numerous skin tags. The presence of the acle axitivity and analyte. On examination you note numerous skin tags. The presence of the acle axiticates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastom anultiforme E) AIDS	of elevated glucose, which often cause weight gain,
09-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is       over ne a weight loss effect. Gas metformin, particularly early         09-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is       DM I/ DM II. 09-112. In child agents would be most approved for treatment of months, despite reasonable adherence to a diet and exercise         09-112. +End+Cca. An overweight 11 stime?       A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D)         Polightazone (Actos) E) Acarbose (Precose)       DM I/ DM II. 09-149. Metfor         09-149. +End+Adm. A (O-year-old Atrican-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?       DM I/ DM II. 09-149. Metfor         09-181. +End+Adm. A (D a Serum creatinine level C) A CBC       DM I/ DM II. 09-181. DM, ge serter for gestational diabetes in asymptomatic women with no risk factors for this condition is       DM I/ DM II. 09-181. DM, ge serter for gestational diabetes in a 50-g or al glucose load later.         09-181. +End+Adm. A 'S -year-old white male who has had diabetes mellitus for or get following is the most likely cause of the hypoglycemia? A)       DM I/ DM II. 09-206. DM I.         09-204. +End+Adm. A'S -year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the next caudia cause of the hypoglycemia? A)       DM I/ DM II. 09-227. ANS= with diabetes mellitus and on the most common location or associated with any signf HV infection.         09-204. +End+Adm. A' critically II adult male is admitted to the	levels and more frequently has a weight-maintaining or
Operation         metformin, particularly early           09-112. + End+Cca. A overweight 11-year-old male with acathosis nigricans is found to have a fasting plasma glucose level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents approved for treatment of hemoglobin A is 9.0%. Which one of the following oral agents approved for treatment of the following should be ordered before initiating treatment with metformin (Glucophage)? A) Serum electrolytes B) A serum creatinine level C) A CBC D) A lipid panel E) A thyroid panel 09-181, +End+ Mac. The recommended time to screen for gestational diabetes in asymptomatic women with no risk factors for this condition is B) at 16-20 wecks gestation 09-206, +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his dire tor insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Isulin antibodies         DM I/ DM II. 09-206, DM I. hypoglycemia in a previously stable and hysical activity applycemia. Spontaneous hypoglycemia spontaneous on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma	Bastrointestinal distress is a common side effect of
09-112. +End+Cca. An overweight 11-year-old male with acanthosis nigricans is       DM I/ DM II. 09-112. In child         found to have a fasting plasma glucose level of 175 mg/dL on two occasions.       DM I/ DM II. 09-112. In child         over the next 6 months, despite reasonable adherence to a diet and exercise       means of the service of the service of the service of the service of the following oral         agents would be most appropriate at this time?       A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D)         Pioglitazone (Actos) E) Acarbose (Precose)       DM I/ DM II. 09-149. Metfor         09-149. +End+Adm. A 60-year-old African-American male is found to have type       DM I/ DM II. 09-149. Metfor         a diabetes mellitus. Which one of the following should be ordered before       incidence of lactic acidosis.         A) Serum electrolytes B) A serum creatinine level C) A CBC       DM I/ DM II. 09-181. DM, gs         b) at 15-20 weeks gestation       Di at 35-37 weeks gestation         c) at 24-28 weeks gestation       Di at 35-37 weeks gestation         D) at 35-37 weeks gestation       Di at 35-37 weeks gestation         c) at 24-28 weeks gestation       Di N/ DM II. 09-206. DM I.         vpoglycemia in a previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A)         spontaeous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies	
found to have a fasting plasma glucose level of 175 mg/dL on two occasions. Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents would be most appropriate at this time? A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Proglitazone (Actos) E) Acarbose (Precose)DM I/ DM II. 09-149. Metfor patients with renal dysfunct incidence of lactic acidosis.09-149. +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)? A) Serum electrolytes B) A serum creatinine level C) A CBC D) A lipid panel E) A thyroid panel 09-149. Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-227. ANS= with diabetes mellitus and on tassociated with any signif HV offection.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neek and axillae. On examination you note numerous skin tags. The presence of the selesions indicates an increased risk for A) diabetes mellitus, but his glucose level of the admination you note numerous skin tags. The presence of the selesions indicates an bitsory of diabetes mellitus, but his glucose level of na damission is 215 mg/dL and	hildren. ANS=A. Metformin and insulin are the only
Over the next 6 months, despite reasonable adherence to a diet and exercise regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents would be most appropriate at this time?         A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Proglitazone (Actos) E) A carabose (Precose)       DM I/ DM II. 09-149. Metfor patients with renal dysfunct initiating treatment with metformin (Glucophage)?         A) Surum electrolytes B) A serum creatinine level C) A CBC       DM I/ DM II. 09-181. DM, ge screen for gestational diabetes in asymptomatic women with no risk factors for this condition is       DM I/ DM II. 09-181. DM, ge screen for gestational diabetes in asymptomatic women with no risk factors for this condition is         A) at 16-20 weeks gestation       DM I/ DM II. 09-206. DM I.         D) at 35-37 weeks gestation       DM I/ DM II. 09-206. DM I.         D) at 35-37 weeks gestation       DM I/ DM II. 09-206. DM I.         D) at 35-37 weeks gestation       DM I/ DM II. 09-206. DM I.         D) at 35-37 weeks agestation       DM I/ DM II. 09-206. DM I.         D) at 206, +End+Adm. A 35-year-old white male who has had diabetes mellitus for on the following is the most likely cause of the hypoglycemia? A) spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies       DM I/ DM II. 09-227. ANS= with diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDS       DM I/ DM II. 01-008. ANS=1         100-0206. Jadd_L       DM I/ DM II. 10-008. A	ment of type 2 diabetes mellitus in children.
regimen, he has preprandial and bedtime finger-stick blood 1c glucose levels that average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents would be most appropriate at this time? A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Pioglitazone (Actos) E) Acarbose (Precose) <b>09-140</b> , +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)? A) Serum electrolytes B) A serum creatinine level C) A CBC D) A lipid panel E) A thyroid panel <b>09-131</b> , +End+ Mac. The recommended time to screen for gestational diabetes in asymptomatic women with no risk factors for this condition is A) in the first trimester B) at 16–20 weeks gestation C) at 24–28 weeks gestation D) at 35–37 weeks gestation D) expedived and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies <b>09-227.</b> +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of the selesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDS <b>D</b> M / D M II. <b>09-227. ANS=</b> with diabetes mellitus and o and the most common locatio to associated with any signif HIV infection. <b>D</b> M / D M II. <b>10-008. ANS=</b> <b>D</b> M / D M II. <b>10-018. ANS</b> <b>D</b> M / D M II. <b>10-018</b>	nent of type 2 diabetes menitus in enharen.
average 180 mg/dL. His hemoglobin A is 9.0%. Which one of the following oral agents would be most appropriate at this time?         A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Pioglitazone (Actos) E) Acarbose (Precose)         09-149. +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?       DM I/ DM II. 09-149. Metfor patients with renal dysfunct incidence of lactic acidosis.         A) Serum electrolytes B) A serum creatinine level C) A CBC       DM I/ DM II. 09-181. DM, gs screen for gestational diabetes in asymptomatic women with no risk factors for this condition is as 15 -37 weeks gestation       DM I/ DM II. 09-181. DM, gs screen for gestational diabetes in asymptomatic women with no risk factors for this condition is 33 -37 weeks gestation         09-206. Fuel+Adm. A 5-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A)       DM I/ DM II. 09-206. DM I. hypoglycemia a sociated with any signif         09-207. +End+Adm. You see a 30-year-old white male for the first time for a rottine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of the skin story of diabetes mellitus, but his glucose level of the social activity on admission is 215 mg/L and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient?       DM I/ DM II. 10-008. ANS=1 glucose is anot	
agentswould be most appropriate at this time?A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D) Pioglitazone (Actos) E) Acarbose (Precose)DM I/ DM II. 09-149. Metfor patients with renal dysfunct incidence of lactic acidosis.09-149. +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?DM I/ DM II. 09-149. Metfor patients with renal dysfunct incidence of lactic acidosis.09-149. +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following is the most ikely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-206. DM I. hypoglycemia? A) GP-227. +End+Adm. A 35-year-old white male who has had diabetes mellitus for cone of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-206. DM I. hypoglycemia a, previously after 20 years of therapy) wor hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the nexk and axillae. On examination you note numerous skin lags. The presence of these lesions indicates an increased risk for A) diabetes mellitus. Bu this glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80-120 mg/dLDM I/ DM II. 10-008. ANS=1 groups studied, there was no targ	
A) Metformin (Glucophage) B) Glyburide (DiaBeta) C) Sitagliptin (Januvia) D)       Pioglitazone (Actos) E) Acarbose (Precose)         D9-149. +End+Adm. A 60-year-old African-American male is found to have type       2 diabetes mellitus. Which one of the following should be ordered before       DM I/ DM II. 09-149. Metfor         a diabetes mellitus. Which one of the following should be ordered before       incidence of lactic acidosis.       DM I/ DM II. 09-181. Metfor         b) A lipid panel E) A thyroid panel       DM I/ DM II. 09-181. DM, gg       Serven of gestational diabetes in         asymptomatic women with no risk factors for this condition is       DM I/ DM II. 09-181. DM, gg       Serven of gestational diabetes         D) at 156-20 weeks gestation       Dat 35-37 weeks gestation       DM I/ DM II. 09-206. DM I.         09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for       DM I/ DM II. 09-206. DM I.         20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not encently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A)       DM I/ DM II. 09-226. DM I.         Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies       DM I/ DM II. 09-227. ANS=         09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of the solary of diabetes mellitus, b	
Pioglitazone (Actos) E) Acarbose (Precose)       DM I/ DM II. 09-149. HEnd+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?       DM I/ DM II. 09-149. Metfor patients with renal dysfunct incidence of lactic acidosis.         A) Serum electrolytes B) A serum creatinine level C) A CBC       DM I/ DM II. 09-181. DM, go screen for gestational diabetes in asymptomatic women with no risk factors for this condition is       DM I/ DM II. 09-181. DM, go screen for gestational diabetes in asymptomatic women with no risk factors for this condition is         A) in the first trimester       DM I/ DM II. 09-206. DM I.         B) at 16-20 weeks gestation       C) at 24-28 weeks gestation         C) at 24-28 weeks gestation       DM I/ DM II. 09-206. DM I.         20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A)       DM I/ DM II. 09-206. DM I.         Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies       DM I/ DM II. 09-227. ANS= with diabetes mellitus. B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDS       DM I/ DM II. 09-227. ANS= with diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient?       DM I/ DM II. 10-008, ANS=1         10-008. +End+Adm.* A critically iil dult male is admitted	
09-149. +End+Adm. A 60-year-old African-American male is found to have type 2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)? A) Serum electrolytes B) A serum creatinine level C) A CBC D) A lipid panel E) A thyroid panelDM I/ DM II. 09-181. Metfor patients with renal dysfunct incidence of lactic acidosis.09-181. +End+ Mac. The recommended time to screen for gestational diabetes in asymptomatic women with no risk factors for this condition is A) in the first trimester B) at 16-20 weeks gestation D) at 35-37 weeks gestation O9-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B -cell function B) Renal disease C) Reduced of the neck and axillae. On examination you note numerous skin tags. The presence of the sel esions indicates an increased risk for A) diabetes mellitus, B) squamous the neck and axillae. On examination you note numerous skin tags. The presence of the sel esions indicates an increased risk for A) diabetes mellitus, B) squamous et led scin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus, B) squamous tracticated with any signif HIV infection.10-008, +End+Adm, *A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008, ANS=1 glycemic control issued by the Endocrinologists and the Ami infusion with a target glucose level of This recommendation is base groups studied, there was no targeting near-	
2 diabetes mellitus. Which one of the following should be ordered before initiating treatment with metformin (Glucophage)?       patients with renal dysfunct incidence of lactic acidosis.         A) Serum electrolytes B) A serum creatinine level C) A CBC       DM I/ DM II. 09-181. DM, go screen for gestational diabetes in asymptomatic women with no risk factors for this condition is       DM I/ DM II. 09-181. DM, go screen for gestational diabetes in asymptomatic women with no risk factors for this condition is         A) in the first trimester       B) at 16-20 weeks gestation       DM I/ DM II. 09-206, DM I.         D) at 35-37 weeks gestation       09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies       DM I/ DM II. 09-206, DM I.         09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient?       DM I/ DM II. 10-008. ANS=1         B) 100-140 mg/dL       DM I/ DM II. 10-008. ANS=1       giveemic control issued by the Endocrinologists and the Am infusion with a target glucose level of the	formin. ANS=B. <u>Metformin is contraindicated in</u>
initiating treatment with metformin (Glucophage)?incidence of lactic acidosis.A) Serum electrolytes B) A serum creatinine level C) A CBCD) A lipid panel E) A thyroid panelDM I/ DM II. 09-181. DM, goD) A lipid panel E) A thyroid panelDM I/ DM II. 09-181. DM, goscreen for gestational diabetes inasymptomatic women with no risk factors for this condition isDM I/ DM II. 09-181. DM, goA) in the first trimestergiven a 50-g or al glucose loadB) at 16-20 weeks gestationDi at 35-37 weeks gestationC) at 24-28 weeks gestationDM I/ DM II. 09-206. DM I.C) years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A)Spontaneous improvement of B-cell function B) Renal disease C) ReducedDM I/ DM II. 09-227. ANS=09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous red akin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 10-008. ANS=I glycemic control issued by th Endocrinologists and the Ams following is the most appropriate target glucose range for this patient?A) 80-120 mg/dLDM I/ DM mg/dLThis recommendation is base groups studied, there was nor target glucose level of the following is the most appropriate target glucose range for this patient?D) 140-140 mg/dLDM I/ DM MIL 100-008 elvel of resulting from intensive glucose level of the following is the most	iction, because it is associated with an increased
A) Serum electrolytes B) A serum creatinine level C) A CBC       D) A lipid panel E) A thyroid panel         09-181. +End+ Mac. The recommended time to screen for gestational diabetes in asymptomatic women with no risk factors for this condition is       DM I/ DM II. 09-181. DM, gestion a sorreen for gestational diabetes in given a 50-g or al glucose load later.         A) in the first trimester       B) at 16–20 weeks gestation       DM I/ DM II. 09-206. DM I.         D) at 35–37 weeks gestation       DM I/ DM II. 09-206. DM I.         09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A)       DM I/ DM II. 09-206. DM I.         Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies       DM I/ DM II. 09-227. ANS=         09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus. B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDS       DM I/ DM II. 10-008. ANS=1         10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insult therapy is ordered. Which one of the following is the most target glucose range for this pat	
D) A lipid panel E) A thyroid panel09-181. +End+ Mac. The recommended time to screen for gestational diabetes in asymptomatic women with no risk factors for this condition is A) in the first trimester B) at 16–20 weeks gestation C) at 24–28 weeks gestation D) at 35–37 weeks gestation O9-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-206. DM I. hypoglycemia in a previously atter.09-207. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus. B) squanous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dL B) 100–140 mg/dL C) 120–160 mg/dL B) 100–140 mg/dL C) 120–160 mg/dL C) 120–160 mg/dL C) 120–100 mg/dL C) 120–	<u>56</u>
09-181. +End+ Mac. The recommended time to screen for gestational diabetes in asymptomatic women with no risk factors for this condition is A) in the first trimester B) at 16–20 weeks gestation D) at 35–37 weeks gestation D) at 35–37 weeks gestation D) at 35–37 weeks gestation D) at 35–37 weeks gestation D9-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-206. DM I. hypoglycemia in a previously after 20 years of therapy) wou hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 10-008. ANS=1 glvcemic control issued by the Endocrinologists and the Am infusion with a target glucose This recommendation is based groups studied, there was no t target in gear-euglycemic glu with a target glucose level of This recommendation is based groups studied, there was no t target in gear-euglycemic glu with a target glucose level of This recommendation is based groups studied, there was no t target in gear-euglycemic glu with a target glucose level of This recommendation is based groups studied, there was no t target in gear-euglycemic glu with a target glucose	
<ul> <li>asymptomatic women with no risk factors for this condition is</li> <li>A) in the first trimester</li> <li>B) at 16–20 weeks gestation</li> <li>C) at 24–28 weeks gestation</li> <li>D) at 35–37 weeks gestation</li> <li>D9-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A)</li> <li>Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodies</li> <li>D9-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDS</li> <li>D0-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level of not associated with any signif HIV infection.</li> <li>D0-120 mg/dL</li> <li>B) 100–140 mg/dL</li> <li>D) 140–180 mg/dL</li> <li>D) 140–180 mg/dL</li> <li>E) 160–200 mg/dL</li> </ul>	asstational ANS-C. The recommanded time to
A) in the first trimestergiven a 50-g oral glucose loadB) at 16–20 weeks gestationlater.C) at 24–28 weeks gestationDD) at 35–37 weeks gestationD09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for coll statistic controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-206. DM I. hypoglycemia in a previously after 20 years of therapy) wore hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common locatio not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glvcemic control issued by the Endocrinologists and the Ama infusion with a target glucose level of targeting near-euglycemic glu with a target glucose level of resulting from intensive glyce	gestational. ANS=C. The recommended time to
B) at 16–20 weeks gestation       Iater.         C) at 24–28 weeks gestation       Dat 35–37 weeks gestation         09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A)       DM I/ DM II. 09-206. DM I.         Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D Insulin antibodies       not changed his or her diet (reduction in physical activity after 20 years of therapy) work hyperglycemia. Spontaneous be very rare.         09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDS       DM I/ DM II. 09-227. ANS= with diabetes mellitus and on tassociated with any signif HIV infection.         10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level of the following is the most appropriate target glucose range for this patient?       DM I/ DM II. 10-008. ANS=1 glycemic control issued by the Endocrinologists and the Amminfusion with a target glucose level of the following is the most appropriate target glucose range for this patient?         A) 80–120 mg/dL       Di 10–180 mg/dL       This recommendation is base groups studied, there was no target	
C) at 24–28 weeks gestationD) at 35–37 weeks gestation09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-206. DM I. hypoglycemia in a previously reduction in physical activity after 20 years of therapy) wou hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o to at ssociated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by the Endocrinologists and the Ama infusion with a target glucose This recommendation is base groups studied, there was no t targeting near-euglycemic glu with a target glucose level of resulting from intensive glyce	oad followed by a glucose determination 1 hour
D) at 35–37 weeks gestation09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-206. DM I. hypoglycemia in a previously not changed his or her diet or reduction in physical activity after 20 years of therapy) woth hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common location not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by the indusion with a target glucose target glucose level of This recommendation is based groups studied, there was no target glucose level of E) 160–200 mg/dLDM I/ DM II. 10-008. Control issued by the infusion with a target glucose level of target glucose level of target glucose level	
09-206. +End+Adm. A 35-year-old white male who has had diabetes mellitus for 20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesDM I/ DM II. 09-206. DM I. hypoglycemia in a previously after 20 years of therapy) wou hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common locatio not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dL D) 140–180 mg/dL D) 140–180 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by th Endocrinologists and the Ame infusion with a target glucose groups studied, there was no targeting near-euglycemic glu with a target glucose level of resulting from intensive glycemic glu with a target glucose level of resulting from intensive glycemic glu with a target glucose level of resulting from intensive glycemic glu with a target glucose level of <b< td=""><td></td></b<>	
20 years begins having episodes of hypoglycemia. He was previously stable and well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodieshypoglycemia in a previously not changed his or her diet of reduction in physical activity after 20 years of therapy) wou hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common location not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dL D) 140–180 mg/dL D) 140–180 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by the Endocrinologists and the Ame infusion with a target glucose groups studied, there was no targeting near-euglycemic glu with a target glucose level of resulting from intensive glycemic glu with a target glucose level of resulting from intensive glycemic glu with a target glucose level of resulting from intensive glycemic glu	I ANS-P. The most common correct
well controlled and has not recently changed his diet or insulin regimen. Which one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesnot changed his or her diet of reduction in physical activity after 20 years of therapy) work hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and or and the most common location not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by the Endocrinologists and the Amor infusion with a target glucose groups studied, there was no targeting near-euglycemic glu with a target glucose level of resulting from intensive glycemic glu	
one of the following is the most likely cause of the hypoglycemia? A) Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesreduction in physical activity after 20 years of therapy) wor hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common locatio not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glvcemic control issued by th Endocrinologists and the Ame infusion with a target glucose This recommendation is base groups studied, there was no targeting near-euglycemic glu with a target glucose level of targeting near-euglycemic glu with a target glucose level of targeting near-euglycemic glu with a target glucose level of targeting near-euglycemic glu with a target glucose level of resulting from intensive glycemic glu	usly stable, well-controlled diabetic patient who has
Spontaneous improvement of B-cell function B) Renal disease C) Reduced physical activity D) Insulin antibodiesafter 20 years of therapy) would hyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common locatio not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by th Endocrinologists and the Ame infusion with a target glucose This recommendation is based groups studied, there was no targeting near-euglycemic glu with a target glucose level of trageting near-euglycemic glu with a target glucose level of trageting near-euglycemic glu with a target glucose level of trageting near-euglycemic glu with a target glucose level of resulting from intensive glycemic glu	
physical activity D) Insulin antibodieshyperglycemia. Spontaneous be very rare.09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common locatio not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by th Endocrinologists and the Ame infusion with a target glucose targeting near-euglycemic glu with a target glucose level of targeting from intensive glycemic	ty or the appearance of insulin antibodies (unlikely
<b>09-227.</b> +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common locatio not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dL D) 140–140 mg/dL C) 120–160 mg/dL D) 140–180 mg/dL E) 160–200 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by th Endocrinologists and the Am infusion with a target glucos groups studied, there was no target ing near-euglycemic glu with a target glucose level of targeting near-euglycemic glu with a target glucose level of resulting from intensive glycemic glu	yould increase insulin requirements and produce
09-227. +End+Adm. You see a 30-year-old white male for the first time for a routine evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSDM I/ DM II. 09-227. ANS= with diabetes mellitus and o and the most common locatio not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by th Endocrinologists and the Amc following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by th Endocrinologists and the Amc furst recommendation is based groups studied, there was no target ing near-euglycemic glu with a target glucose level of trageting near-euglycemic glu with a target glucose level of resulting from intensive glycemic glu	as improvement of B-cell function after 20 years would
with diabetes mellitus and o motione evaluation. He says that he has been bothered by multiple skin lesions on the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSwith diabetes mellitus and o and the most common location not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level of admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dL B) 100–140 mg/dL C) 120–160 mg/dL D) 140–180 mg/dL E) 160–200 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by th Endocrinologists and the Amo infusion with a target glucos groups studied, there was no targeting near-euglycemic glu with a target glucose level of ersulting from intensive glycemic groups studied, there was no target glucose level of ersulting from intensive glycemic groups studied to motion is based groups studied, there was no target glucose level of ersulting from intensive glycemic groups studied to the intensive submit a target glucose level of ersulting from intensive glycemic groups studied to the intensive submit and the and the and the and the and target glucose level of ersulting from intensive glycemic groups studied to the intensive submit and the and target glucose level of ersulting from intensive glycemic groups and the and target glucose level of ersulting from intensive glycemic groups and the and target glucose level of ersulting from intensive glycemic groups and the and target glucose l	
the neck and axillae. On examination you note numerous skin tags. The presence of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSand the most common location not associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dL B) 100–140 mg/dL C) 120–160 mg/dL D) 140–180 mg/dL E) 160–200 mg/dLDM I/ DM II. 10-008. ANS=1 glycemic control issued by th Endocrinologists and the Am infusion with a target glucose groups studied, there was no targeting near-euglycemic glu with a target glucose level of resulting from intensive glycemic groups fudied from intensive glycemic groups fudied from intensive glycemic glu with a target glucose level of resulting from intensive glycemic groups fudied from	S=A. <u>Skin tags, or acrochordons, are associated</u>
of these lesions indicates an increased risk for A) diabetes mellitus B) squamous cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSnot associated with any signif HIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient? A) 80–120 mg/dLDM I/ DM II. 10-008. ANS=I glycemic control issued by th Endocrinologists and the Ame infusion with a target glucose target ing near-euglycemic glu with a target glucose level of E) 160–200 mg/dL01 120–180 mg/dLwith a target glucose level of ersulting from intensive glycemic	<b><u>l obesity</u></b> . The onset often occurs in early adulthood,
cell skin cancer C) melanoma D) glioblastoma multiforme E) AIDSHIV infection.10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient?DM I/ DM II. 10-008. ANS=1 glycemic control issued by the Endocrinologists and the American Statement infusion with a target glucose groups studied, there was no new control is based groups studied, there was no new control is based groups studied, there was no new control is based of the () 120-160 mg/dLThis recommendation is based targeting near-euglycemic glucose level of targeting from intensive glycemic glucose level of resulting fro	tions are the neck and axillae. These skin lesions are
10-008. +End+Adm.* A critically ill adult male is admitted to the intensive-care unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient?DM I/ DM II. 10-008. ANS=1 glycemic controlA) 80–120 mg/dL B) 100–140 mg/dL D) 140–180 mg/dLThis recommendation is based groups studied, there was no target glucose level of target glucose level of resulting from intensive glycemic glucose level of target glucose level of resulting from intensive glycemic	nificant cancer risk, and have not been associated with
unit because of sepsis. He has no history of diabetes mellitus, but his glucose level on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient?glycemic controlissued by th Endocrinologists and the Ame infusion with a target glucose This recommendation is based groups studied, there was no targeting near-euglycemic glucose level of E) 160–200 mg/dLUnit because of sepsis. He has no history of diabetes mellitus, but his glucose level of the D) 140–180 mg/dLInfusion with a target glucose groups studied, there was no targeting near-euglycemic glucose level of resulting from intensive glyce	
on admission is 215 mg/dL and insulin therapy is ordered. Which one of the following is the most appropriate target glucose range for this patient?Endocrinologists and the Ame infusion with a target glucos This recommendation is based groups studied, there was no r targeting near-euglycemic glu with a target glucose level of F) 140–180 mg/dLD) 140–180 mg/dLwith a target glucose level of resulting from intensive glyce	<b>E=D.</b> The 2009 consensus guidelines on <u>inpatient</u>
following is the most appropriate target glucose range for this patient?infusion with a target glucoseA) 80–120 mg/dLThis recommendation is basedB) 100–140 mg/dLgroups studied, there was no rC) 120–160 mg/dLtargeting near-euglycemic gluD) 140–180 mg/dLwith a target glucose level ofE) 160–200 mg/dLresulting from intensive glyce	the American Association of Clinical
A) 80-120 mg/dLThis recommendation is based groups studied, there was no re targeting near-euglycemic gluB) 100-140 mg/dLgroups studied, there was no re targeting near-euglycemic gluD) 140-180 mg/dLtarget glucose level of resulting from intensive glyce	merican Diabetes Association recommend <u>insulin</u>
B) 100-140 mg/dLgroups studied, there was no not complete the studied of the studied o	cose level of 140–180 mg/dL in critically ill patients.
C) 120-160 mg/dLtargeting near-euglycemic gluD) 140-180 mg/dLwith a target glucose level ofE) 160-200 mg/dLresulting from intensive glyce	sed on clinical trials in critically ill patients. In the
D) 140–180 mg/dL with a target glucose level of E) 160–200 mg/dL resulting from intensive glyce	o reduction in mortality from intensive treatment
E) 160–200 mg/dL resulting from intensive glyce	glucose levels compared to conventional management
	of <180 mg/dL. There also were reports of harm
humaaluaamia and avan inana	cemic control, including higher rates of severe
	<b>B. <u>The most common pathogens in previously</u></b>
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 49 of 170 Mario A. Jimenez, M.D., B.S.E receive."	S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007 the americanal department for an easter superficial provincely untreated infected	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
the emergency department for an acute, superficial, previously untreated infected great toe. Along with <i>Staphylococcus aureus</i> , which one of the following is the most common pathogen in this situation? A) <i>Pseudomonas</i> B) <i>Streptococcus</i> C) <i>Clostridium</i> D) <i>Escherichia coli</i> E) Adenovirus	untreated acute superficial foot infections in diabetic patients are aerobic gram-positive <i>Staphylococcus aureus</i> and <u>B-hemolytic streptococci</u> (groups A, B, and others). Previously treated and deep infections are often polymicrobial.
<ul> <li><b>10-057.</b> +Car+Adm. According to the guidelines of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure, for hypertensive patients who also have diabetes mellitus, the blood pressure goal is below a threshold of</li> <li>A) 140/95 mm Hg</li> <li>B) 135/90 mm Hg</li> <li>C) 130/80 mm Hg</li> <li>D) 120/75 mm Hg</li> </ul>	DM I/ DM II. 10-057. Hypertension and diabetes mellitus are very common, both separately and in combination. ANS=C. End-organ damage to the heart, brain, and kidneys is more common in patients with both diabetes mellitus and hypertension, occurring at lower blood pressure levels than in patients with only hypertension. JNC 7, an evidence-based consensus report, recommends that patients with diabetes and hypertension be treated to reduce blood pressure to below 130/80 mm Hg, as opposed to 140/90 mm Hg for other adults. It should be noted, however, that the recently published ACCORD blood pressure trial found no significant cardiovascular benefit from targeting systolic blood pressure at $\leq 120$ mm Hg rather than $\leq 140$ mm Hg in patients with type 2 diabetes. This finding may affect the JNC 8 guidelines, which are currently being developed.
<ul> <li>10-072. +End+Adm.* The best available evidence supports which one of the following statements regarding the cardiovascular effects of hypoglycemic agents?</li> <li>A) Sulfonylureas increase cardiovascular events</li> <li>B) Metformin (Glucophage) reduces cardiovascular mortality rates</li> <li>C) Incretin mimetics reduce the risk of cardiovascular events</li> <li>D) A-Glucosidase inhibitors have no effect on cardiovascular events</li> </ul>	DM I/ DM II. 10-072. Metformin is the only hypoglycemic agent shown to reduce mortality rates in patients with type 2 diabetes mellitus. ANS=B. A recent systematic review concluded that cardiovascular events are neither increased nor decreased with the use of sulfonylureas. The effect of incretin mimetics and incretin enhancers on cardiovascular events has not been determined. The STOP-NIDDM study suggests that a-glucosidase inhibitors reduce the risk of cardiovascular events in patients with impaired glucose tolerance.
<ul> <li>10-085. +End+Adm. Which one of the following is diagnostic for type 2 diabetes mellitus?</li> <li>A) A fasting plasma glucose level ≥126 mg/dL on two separate occasions</li> <li>B) An oral glucose tolerance test (75-g load) with a 2-hour glucose level ≥160 mg/dL</li> <li>C) A random blood glucose level ≥200 mg/dL on two occasions in an asymptomatic person</li> <li>D) A hemoglobin A1c ≥6.0% on two separate occasions</li> </ul>	DM I/ DM II. 10-085. ANS=A. The American Diabetes Association (ADA) first published guidelines for the diagnosis of diabetes mellitus in 1997 and updated its diagnostic criteria in 2010. With the increasing incidence of obesity, it is estimated that over 5 million Americans have undiagnosed type 2 diabetes mellitus. Given the long-term risks of microvascular (renal, ocular) and macrovascular (cardiac) complications, clear guidelines for screening are critical. The ADA recommends screening for all asymptomatic adults with a BMI >25.0 kg/m2 who have one or more additional risk factors for diabetes mellitus, and screening for all adults with no risk factors every 3 years beginning at age 45. <u>Current criteria for the diagnosis of diabetes mellitus</u> include a hemoglobin A1c≥6.5%, a fasting plasma glucose level ≥126 mg/dL, a 2-hour plasma glucose level ≥200 mg/dL. In the absence of unequivocal hyperglycemia, results require confirmation by repeat testing.
<ul> <li>10-102. +End+Adm. A 55-year-old female with diabetes mellitus, hypertension, and hyperlipidemia presents to your office for routine follow-up. Her serum creatinine level is 1.5 mg/dL (estimated creatinine clearance 50 mL/min). Which one of the following diabetes medications would be contraindicated in this patient?</li> <li>A) Metformin (Glucophage)</li> <li>B) Exenatide (Byetta)</li> <li>C) Acarbose (Precose)</li> <li>D) Insulin glargine (Lantus)</li> <li>E) Riself transfer (Attra)</li> </ul>	DM I/ DM II. 10-102. <u>Metformin</u> is contraindicated in patients with chronic kidney disease. ANS=A. It <u>should be stopped in females with a creatinine</u> <u>level ≥1.4 mg/dL and in males with a creatinine level ≥1.5 mg/dL</u> . Pioglitazone should not be used in patients with hepatic disease. Acarbose should be avoided in patients with cirrhosis or a creatinine level >2.0 mg/dL. Exenatide is not recommended in patients with a creatinine clearance <30 mL/min. Insulin glargine can be used in patients with renal disease at any stage, but the dosage may need to be decreased.
<ul> <li>E) Pioglitazone (Actos)</li> <li>10-128. +End+Adm.* A hemoglobin A of 7.0% would correspond to which one of the following mean (average) plasma glucose levels?</li> <li>A) 126 mg/dL</li> <li>B) 154 mg/dL</li> <li>C) 183 mg/dL</li> <li>D) 212 mg/dL</li> <li>E) 240 mg/dL</li> </ul>	DM I/ DM II. 10-128. A1c hemoglobin A (HbA1c) of 6.0% correlates with a mean plasma glucose level of 126 mg/dL or 7.0 mol/dL. ANS=B. A calculator to convert HbA1c levels into estimated average glucose levels is available at http://professional.diabetes.org/eAG. Hint: A rough guide for estimating average plasma glucose levels assumes that an HbA1c of 6.0% equals an average glucose level of 120 mg/dL. Each percentage point increase in HbA1c is equivalent to a 30-mg/dL rise in average glucose level of 150 mg/dL, and an HbA1c of 8.0% translates to an average glucose level of 180 mg/dL.
<ul> <li>10-164. +End+Mac.&gt;L* A 26-year-old gravida 3 para 2 was diagnosed with gestational diabetes mellitus at 24 weeks gestation. She was prescribed appropriate nutritional therapy and an exercise program. After 4 weeks, her fasting plasma glucose levels remain in the range of 105–110 mg/dL. Which one of the following would be the most appropriate treatment for this patient at this time?</li> <li>A) Continuation of the current regimen</li> <li>B) Long-acting insulin glargine (Lantus) once daily</li> <li>C) Pioglitazone (Actos) once daily</li> <li>D) A combination of intermediate-acting insulin (e.g., NPH) and a short-acting insulin (e.g., lispro) twice daily</li> <li>E) Sliding-scale insulin 4 times daily using ultra-short-acting insulin</li> </ul>	DM I/ DM II. 10-164. DM, gestational. ANS=D. In addition to an appropriate diet and exercise regimen, pharmacologic therapy should be initiated in pregnant women with gestational diabetes mellitus whose fasting plasma glucose levels remain above 100 mg/dL despite diet and exercise. There is strong evidence that such treatment to maintain fasting plasma glucose levels below 95 mg/dL and 1-hour postprandial levels below 140 mg/dL results in improved fetal well-being and neonatal outcomes. While oral therapy with metformin or glyburide is considered safe and possibly effective, insulin therapy is the best option for the pharmacologic treatment of gestational diabetes. Thiazolidinediones such as pioglitazone have not been shown to be effective or safe in pregnancy. <u>The use</u> of long-acting basal insulin analogues, such as glargine and detemir, has not been sufficiently evaluated in pregnancy. Sliding-scale coverage with ultra- short-acting insulin or insulin analogues, such as lispro and aspart, is generally not required in most women with gestational diabetes. While it may be effective, it

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez involves four daily glucose checks and injections. Most patients are successfully
	treated with a twice-daily combination of an intermediate-acting insulin and a short-acting insulin while continuing a diet and exercise program.
<b>10-177.</b> +End+Adm.* A 36-year-old female sees you for a 6-week postpartum visit. Her pregnancy was complicated by gestational diabetes mellitus. Her BMI at	DM // DM II. 10-177. ANS=D. <u>A history of gestational diabetes mellitus</u> (GDM) is the greatest risk factor for future development of diabetes mellitus.
this visit is 33.0 kg/m and she has a family history 2 of diabetes mellitus. This patient's greatest risk factor for developing type 2 diabetes mellitus is her	It is thought that GDM unmasks an underlying propensity to diabetes. While a healthy pregnancy is a diabetogenic state, it is not thought to lead to future
A) age B) obesity	diabetes. This patient's age is not a risk factor. Obesity and family history are risk factors for the development of diabetes, but having GDM leads to a fourfold
C) history of a completed pregnancy	greater risk of developing diabetes, independent of other risk factors (SOR C). It
D) history of gestational diabetes	is thought that 5%–10% of women who have GDM will be diagnosed with type 2 dichete middie (menthe of delivery). About 50% of memory with a bitter of
E) family history of diabetes	diabetes within 6 months of delivery. About 50% of women with a history of GDM will develop type 2 diabetes within 10 years of the affected pregnancy.
10-191. +End+Adm.>L* Which one of the following insulin regimens most	DM I/ DM II. 10-191. Insulin regimens. ANS=D. The body produces insulin at a
closely mimics the normal pattern of pancreatic insulin release in a nondiabetic	basal rate and additional insulin with food intake. The combination of a basal
person? A) 70/30 NPH/regular insulin (Humulin 70/30) twice daily	insulin, such as glargine or detemir, plus a rapid-acting insulin at mealtimes is the regimen that most closely resembles the body's normal response. Basal
B) NPH insulin twice daily plus an insulin sliding-scale protocol using regular	insulin provides a relatively constant level of insulin for 24 hours, with an onset of
insulin C) Ianulia aleanian (I antar) daila aleana ianulia alidina anala mata adamina	action in 1 hour and no peak. NPH gives approximately 12 hours of coverage with
C) Insulin glargine (Lantus) daily plus an insulin sliding-scale protocol using regular insulin	a peak around 6–8 hours. Regular insulin has an onset of action of about 30 minutes and lasts about 5–8 hours, with a peak at about 2–4 hours. New rapid-
D) Insulin detemir (Levamir) daily plus rapid-acting insulin with meals	acting analogue insulins have an onset of action within 5–15 minutes, peak within
E) Rapid-acting insulin before each meal	30–75 minutes, and last only about 2–3 hours after administration. Thus, a 70/30
	insulin mix (typically 70% NPH and 30% regular) provides coverage for 12 hours, but the peaks of insulin release do not closely mimic natural patterns. NPH
	given twice daily along with an insulin sliding-scale protocol using regular insulin
	is only slightly closer than a 70/30 twice-daily regimen. Rapid insulin alone does
	not provide any basal insulin, and the patient would therefore not have insulin available during the night.
10-197. +End+Adm.* Which one of the following classes of diabetes medications	DM I/ DM II. 10-197. Biguanides and thiazolidinediones are insulin sensitizers
acts primarily by stimulating pancreatic insulin secretion?	that decrease hepatic glucose production and increase insulin sensitivity.
<ul><li>A) Biguanides, such as metformin (Glucophage)</li><li>B) Thiazolidinediones, such as pioglitazone (Actos)</li></ul>	ANS=D. <u>Sulfonylureas and meglitinides stimulate pancreatic insulin</u> secretion, while DPP-4 inhibitors prevent GLP-1 breakdown and slow the
C) DPP-4 inhibitors, such as sitagliptin (Januvia)	breakdown of some sugars. GLP-1 mimetics stimulate insulin secretion,
D) Sulfonylureas, such as glipizide (Glucotrol)	suppress glucagon secretion, and promote B-cell production. Amylin analogs
E) Amylin analogs, such as pramlintide (Symlin)	act with insulin to delay gastric emptying and they also inhibit glucagon release.
<b>10-219.</b> +Nep+Adm.* Which one of the following is the most common secondary	DM I/ DM II. 10-219. Nephrotic syndrome. ANS=A. Although most cases of
cause of nephrotic syndrome in adults? A) Diabetes mellitus	nephrotic syndrome are caused by primary kidney disease, <u>the most common</u> secondary cause of nephrotic syndrome in adults is diabetes mellitus. Other
B) Systemic lupus erythematosus	secondary causes include systemic lupus erythematosus, hepatitis B, hepatitis
C) Hepatitis C	<u>C, NSAIDs, amyloidosis, multiple myeloma, HIV, and preeclampsia.</u> Primary
D) NSAIDs E) Multiple myeloma	causes include membranous nephropathy and focal segmental glomerulosclerosis, each accounting for approximately one third of cases.
<b>08-089.</b> +Pbc+Mhe. Which one of the following variables is the most important	Domestic abuse. 08-089. Domestic violence can affect children, intimate
risk factor for being a victim of domestic abuse? A) Educational background	partners, and older adults. <b>ANS=D.</b> It is a serious medical problem that should be considered in the care of patients and families. There is great variation in the
B) Psychological problems	profiles of patients affected by domestic violence. Neither demographic factors
C) Race	nor psychological problems have been found to be consistent predictors of
D) Gender E) Socioeconomic status	victimization or violence. Domestic violence cuts across all racial, socioeconomic, religious, and ethnic lines. The only consistent risk factor for being a victim of
L) socioconomie status	domestic violence is female gender.
07-015.+Pbs+Com. False-positive urine screens for drug abuse can occur as a	Drug abuse. 07-015. Drug screens, false-positive. ANS=C. Eating as little as one
result of A) passive inhalation of crack cocaine B) passive inhalation of marijuana smoke C) eating poppy seed muffins D) consuming products containing hemp E)	poppy seed muffin can produce amounts of morphine and codeine detectable by immunoassay, as well as by gas chromatography and mass spectrometry.
use of black cohosh	Passively inhaled crack cocaine or marijuana (unless an extreme amount is
	inhaled), and ingested products containing hemp or other common herbal
	preparations do not produce positive urine drug screens. In addition to poppy seeds, substances reported to cause false-positive urine drug screens include
	selegiline, Vicks inhalers, NSAIDs, oxaprozin, fluoroquinolones, rifampin,
	venlafaxine, and dextromethorphan.
<b>08-013.</b> +Pbc+Com+Adm. A 50-year-old male with a history of methamphetamine abuse requests medication to treat this problem. According to evidence-based	Drug abuse. <b>08-013.</b> Methamphetamine dependence is very difficult to treat. <b>ANS=E.</b> No medications have been approved by the FDA for the treatment of this
studies, which one of the following would be most likely to help this patient	problem, nor have any studies shown consistent benefit to date. The standard
overcome methamphetamine dependence?	therapy for methamphetamine dependence is outpatient behavioral
A) Fluoxetine (Prozac) B) Amlodipine (Norvasc)	therapies, especially with case management included. Therapy must be individualized. Support groups and 12-step drug-treatment programs may be
C) Imipramine (Tofranil)	helpful.
D) Bupropion (Wellbutrin)	
E) Cognitive therapy <b>08-144.</b> +End+Adm. A 67-year-old female presents with progressive weakness,	Drug SE. 08-144. Hypothyroidism. ANS=B. This patient has classic signs of
	hypothyroidism. Of the drugs listed, only lithium is associated with the
dry skin, lethargy, slow speech, and eyelid edema. Of the following medications	
currently taken by this patient, which one is most likely to be causing her	development of hypothyroidism. In patients taking lithium, it is recommended
	development of hypothyroidism. In patients taking lithium, <u>it is recommended</u> <u>that in addition to regular serum lithium levels, thyroid function tests</u> including total free T4, and TSH be obtained yearly.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
B) Lithium	Uptodate:
C) Lisinopril (Prinivil, Zestril)	Donepezil (Aricept) SE: Cardiac conduction abnormalities: Use with caution in
D) Alendronate (Fosamax)	patients with sick-sinus syndrome, bradycardia, or conduction abnormalities.
E) Glyburide (DiaBeta, Micronase)	Alzheimer's treatment guidelines consider bradycardia to be a relative
	contraindication for use of centrally-active cholinesterase inhibitors.
	• Peptic ulcer disease: Use with caution in patients at risk of ulcer disease (eg,
	previous history or NSAID use); cholinesterase inhibitors may increase gastric
	acid secretion. Monitor for symptoms of bleeding.
	• Respiratory disease: Use with caution in patients with COPD and/or asthma. <u>Alendronate (Fosamax) SE:</u> Incidence of adverse effects (mostly GI) increases
	significantly in patients treated for Paget's disease at 40 mg/day.
	>10%: Endocrine & metabolic: Hypocalcemia (transient, mild, 18%);
	hypophosphatemia (transient, mild, 10%).
10-185. +Neu+Cel.>L?* Treatment with donepezil (Aricept) is associated with an	Drug SE. 10-185. Cholinesterase inhibitor therapy. ANS=C. A large population
increased risk for	study has established a significant increased risk of bradycardia, syncope, and
A) pulmonary embolism	pacemaker therapy with cholinesterase inhibitor therapy. Elevation of liver
B) liver failure	enzymes with the potential for hepatic dysfunction has been seen with tacrine, but
C) bradycardia requiring pacemaker implantation	it has not been noted with the other approved cholinesterase inhibitors. Cataract
D) cataract development requiring surgery	formation and thrombosis with pulmonary embolism do not increase with this
E) confusion requiring institutionalization	therapy. Although improvement in mental function is often marginal with cholinesterase inhibitor therapy, the therapy has not been shown to increase the
	need for institutionalization.
<b>08-122.</b> +Mus+Adm. A 43-year-old male complains of difficulty washing his face	Dupuytren's contracture. <b>08-122.</b> The patient has Dupuytren's disease, which is
and combing his hair with his right hand. On examination a nodule, band, and	most common in men over 40 years of age. ANS=B. It is a progressive condition
slight contracture are noted in the palm proximal to the fourth finger.	that causes the fibrous fascia of the palmar surface to shorten and thicken. It
This patient's symptoms are associated with which one of the following?	initially can be managed with observation, but corticosteroid injection and surgery
A) Hyperparathyroidism	may be needed. The condition will regress in 10% of patients. There is a 3%–33%
B) Diabetes mellitus	prevalence of Dupuytren's contracture in patients with diabetes mellitus; however,
C) Hyperthyroidism	these patients tend to have a mild form of the disease with slow progression.
D) Hypothyroidism E) Adrenal insufficiency	
<b>09-166.</b> +Mus+Adm. A 55-year-old white male notices a nodular thickening over	Dupuytren's contracture. <b>09-166.</b> Dupuytren's disease is characterized by
the flexor tendons in his medial palm. He has no difficulty using his hand, and he	shortening and thickening of the palmar fascia. ANS=A. It is initially
is able to lay his palm flat on a tabletop. You suspect Dupuytren's disease. Which	asymptomatic, but may progress and cause difficulty with function of the hand,
one of the following is true regarding this condition?	and may eventually lead to contracture. Early asymptomatic disease does not
A) There is a strong association with diabetes mellitus	require treatment. A series of cortisone injections over a period of months may
B) Surgical intervention is recommended at this point to prevent progression to	lead to disease regression, and is useful in patients with mild to moderate
contracture	symptoms. Surgery is indicated if a metacarpal joint contracture reaches 30°, or
C) Once a contracture develops, it is irreversible and no treatment is indicated	with a proximal interphalangeal joint contracture of any degree. If surgery is
D) A single cortisone injection often leads to disease regression in mild to	delayed, irreversible joint contracture may occur. There is a strong association
moderate cases E) A search for an occult malignancy is indicated	between diabetes mellitus and Dupuytren's disease, with up to a third of diabetic patients having evidence of the disease. It is also associated with alcohol use and
E) A search for an occurt mangnancy is indicated	smoking. Patients requiring surgery have an increased risk of dying from cancer,
	probably related to smoking, alcohol use, or diabetes mellitus, but a search for
	cancer at the time of diagnosis is not indicated.
10-180. +Mus+Adm.* A 52-year-old male presents with a small nodule in his	Dupuytren's contracture. <b>10-180.</b> Dupuytren's contracture is characterized by
palm just proximal to the fourth metacarpophalangeal joint. It has grown larger	changes in the palmar fascia, with progressive thickening and nodule formation
since it first appeared, and he now has mild flexion of the finger, which he is	that can progress to a contracture of the associated finger. ANS=C. The fourth
unable to straighten. He reports that his father had similar problems with his	finger is most commonly affected. Pitting or dimpling can occur over the nodule
fingers. On examination you note pitting of the skin over the nodule. The most	because of the connection with the skin. Degenerative joint disease is not
likely diagnosis is	associated with a palmar nodule. Trigger finger is related to the tendon, not the
A) degenerative joint disease B) trigger finger	palmar fascia, and causes the finger to lock and release. Ganglions also affect the tendons or joints, are not located in the fascia, and are not associated with
B) trigger finger C) Dupuytren's contracture	contractures. Flexor tenosynovitis, an inflammation, is associated with pain,
D) a ganglion	which is not usually seen with Dupuytren's contracture.
E) flexor tenosynovitis	
07-117. +Hem+Adm. An otherwise healthy 62-year-old male has been	DVT. 07-117. Without anticoagulation, patients with an uncomplicated calf deep
hospitalized with community-acquired pneumonia for 2 days. He has remained	vein thrombosis (DVT) have a significant risk of further clot extension, acute
bedridden. When you see him while making rounds, he mentions that he has	pulmonary embolus, or recurrence of the thrombus. ANS=B. They are also at risk
noticed increased swelling and pain in his left lower extremity. Lower extremity	for late complications such as the post-thrombotic syndrome or chronic
ultrasonography reveals a deep venous thrombosis (DVT) in his calf. He has no	thromboembolic hypertension. For this reason, monitoring a DVT by repeat
previous history of blood clots. Which one of the following is the best	ultrasonography is not a good option unless there are <b>contraindications to</b>
<ul><li>management of this patient's DVT?</li><li>A) Compression stockings and repeat ultrasonography in 2 days</li></ul>	anticoagulation, such as recent surgery, hemorrhagic stroke, active bleeding, or heparin-induced thrombocytopenia. The recommended treatment for DVT
B) Heparin therapy followed by oral anticoagulation for 3 months	is heparin (intravenous unfractionated or subcutaneous low molecular
C) Indefinite oral anticoagulation	weight) followed by oral anticoagulation with warfarin once adequate
D) Intravenous thrombolytic therapy	anticoagulation is achieved. For a first episode of DVT due to an idiopathic
E) Insertion of an inferior vena cava filter	cause or transient risk factor, such as short-term immobilization, the
	recommended length of treatment is 3–6 months. The benefit-to-risk ratio
	declines after 6 months unless the patient has a recurrent DVT or a known
	chronic risk factor, such as a thrombophilic condition or cancer.
	Thrombolytic therapy with intravenous tissue plasminogen activator (tPA),
	urokinase, or streptokinase typically is reserved for patients with life- threatening pulmonary embolism. Inferior vena cava filters are used in patients
	who have a contraindication to anticoagulant therapy, recurrent venous
L	

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	thromboembolism despite adequate anticoagulation, or such limited pulmonary vascular reserve that they may not survive additional thromboemboli.
<ul> <li>09-006. +Car+Adm. You are treating a 53-year-old female for a deep-vein thrombosis in her left leg. The use of compression stockings for this problem has been shown to <ul> <li>A) increase the risk of pulmonary embolism</li> <li>B) increase the level of pain</li> <li>C) increase complications if used prior to completion of a course of anticoagulation therapy</li> <li>D) decrease the risk of post-thrombotic syndrome</li> </ul> </li> <li>09-111. +Car+Adm. A 30-year-old female who had a deep venous thrombosis in her left leg during pregnancy has an uneventful delivery. During the pregnancy she was treated with low molecular weight heparin. Just after delivery her left leg is pain free and is not swollen. She plans to resume normal activities soon. Which one of the following would be most appropriate with regard to anticoagulation?</li> <li>A) Discontinuing treatment, with no further evaluation B) Discontinuing treatment if vancements.</li> </ul>	<ul> <li>DvT. 09-006. Post-thrombotic syndrome (PTS) is a complication of acute deep-vein thrombosis (DVT), and is characterized by chronic pain, swelling, and skin changes in the affected limb. ANS: D. Within 5 years of experiencing a DVT, one in three patients will develop PTS. A Cochrane review identified three randomized, controlled trials examining the use of compression therapy in patients diagnosed with a new DVT. The use of elastic compression stockings was associated with a highly statistically significant reduction in the incidence of PTS, with an odds ratio of 0.31 (confidence interval of 0.20–0.48). A separate trial cited in the Cochrane review documented no increased incidence of pulmonary embolism, and a reduction in pain and swelling in the treatment group. Compression stockings should be applied when anticoagulation therapy is started, not when it has been completed. The studies did not examine the rates of recurrent DVT.</li> <li>DVT. 09-111. Anticoagulation. ANS=C. The risk of pulmonary embolism continues in the postpartum period, and may actually increase during that time. For patients who have had a deep-vein thrombosis during pregnancy, treatment should be continued for 6 weeks after delivery, with either warfarin or low molecular weight heparin.</li> </ul>
treatment if venous Doppler ultrasonography is negative for thrombus C) Continuing low molecular weight heparin for 6 more weeks D) Switching to low-	
dose unfractionated heparin for 6 weeks E) Switching to aspirin for 6 weeks <b>08-026.</b> +Ref+Cfp. A 16-year-old female presents with a complaint of pelvic cramps with her menses over the past 2 years. She describes her periods as heavy, and says they occur once a month and last for 7 days, with no spotting in between. She has never been sexually active and does not expect this to change in the foreseeable future. An abdominal examination is normal. Which one of the following would be the most appropriate next step? A) A pelvic examination B) Ultrasonography C) A TSH level D) Naproxen prior to and during menses	Dysmenorrhea, primary. <b>ANS=D.</b> This patient is experiencing primary dysmenorrhea, a common finding in adolescents, with estimates of prevalence ranging from 20% to 90%. Because symptoms started at a rather young age and she has pain only during menses, endometriosis or other significant pelvic pathology is unlikely. An infection is doubtful, considering that she is not sexually active and that symptoms have been present for 2 years. In the absence of red flags, a pelvic examination, laboratory evaluation, and pelvic ultrasonography are not necessary at this time. However, they can be ordered if she does not respond to simple treatment. <b>NSAIDs such as naproxen have a slight effect on platelet function, but because they inhibit prostaglandin synthesis they actually decrease the volume of menstrual flow and lessen the discomfort of pelvic cramping. Acetaminophen would have no effect on prostaglandins.</b>
<ul> <li>08-105. +Sen+Cca. A 3-year-old male is brought to your office because of ear pain. On examination you find a round, plastic bead in the lower third of the ear canal close to the tympanic membrane. You restrain the child and unsuccessfully attempt to remove the object despite several attempts, first using water irrigation and then fast-acting glue on an applicator. Which one of the following is the best option for removal?</li> <li>A) A plastic loop curete through an otoscope</li> <li>B) Referral for removal under anesthesia</li> <li>C) Grasping with forceps</li> </ul>	Ear canal obstruction. <b>ANS=B.</b> After several unsuccessful attempts to remove an object deep in the ear canal of an uncooperative child, it is best to refer the patient to an otolaryngologist for removal under anesthesia. Additional attempts are very unlikely to succeed, especially with the techniques listed. A loop curette cannot be safely placed behind a foreign body that is close to the tympanic membrane. A round, hard object cannot be grasped with forceps. Acetone can be used to dissolve Styrofoam foreign bodies, but it would not dissolve a plastic bead.
<ul> <li>D) Applying acetone to dissolve the object</li> <li>07-023. +Gas+Com+Adm. In patients with eating disorders, chronic laxative use is associated with which one of the following? A) Salivary gland enlargement B) Hyperkalemia C) Dental enamel erosion D) Esophagitis</li> </ul>	Eating disorders, chronic laxative use. <b>ANS=B.</b> Complications of laxative use include electrolyte acid-base disorders (acute acidosis, chronic hypokalemic alkalosis), dehydration, constipation, cathartic colon, and edema. Complications of vomiting include electrolyte acid-base disorders (hypokalemic, hypochloremic metabolic alkalosis), dehydration, dental enamel erosion, salivary gland enlargement, esophageal rupture, bleeding, esophagitis, irritable bowel symptoms (chronic), edema, and hypokalemic nephropathy.
<ul> <li>08-219. +Pbc+Cca. A 9-month-old male is brought to your office by his mother because of concerns about his eating. She states that he throws tantrums while sitting in his high chair, dumps food on the floor, and refuses to eat. She has resorted to feeding him cookies, crackers, and juice, which are "all he will eat." A complete physical examination, including a growth chart of weight, length, and head circumference, is normal. Which one of the following would be the most appropriate recommendation?</li> <li>A) Use disciplinary measures to force the child to eat a healthy breakfast, lunch, and dinner</li> <li>B) Leave the child in the high chair until he has eaten all of the healthy meal presented</li> <li>C) Play feeding games to encourage consumption of healthy meals or snacks</li> <li>D) Skip the next meal if the child refuses to eat</li> <li>E) Provide healthy foods for all meals and snacks, and end the meal if the child refuses to eat</li> </ul>	Eating in infants and toddlers. ANS=E. It is estimated that 3%–10% of infants and toddlers refuse to eat according to their caregivers. Unlike other feeding problems such as colic, this problem tends to persist without intervention. It is recommended that caregivers establish food rules, such as healthy scheduled meals and snacks, and apply them consistently. Parents should control what, when, and where children are being fed, whereas children should control how much they eat at any given time in accordance with physiologic signals of hunger and fullness. No food or drinks other than water should be offered between meals or snacks. Food should not be offered as a reward or present. Parents can be reassured that a normal child will learn to eat enough to prevent starvation. If malnutrition does occur, a search for a physical or mental abnormality should be sought.
<b>07-031.</b> +Ref+Cfp+Mac. A 19-year-old primigravida at approximately 40 weeks gestation comes to the hospital with painful contractions. She has received no prenatal care. Examination reveals that her cervix is 4 cm dilated and 85% effaced at –1 station. Her blood pressure is 164/111 mm Hg and a urine dipstick shows 3+ protein. She reports that she has had severe headaches for 3 days and has noticed a lot of swelling in her legs and feet. Moments after blood is drawn and intravenous access is obtained, she has a generalized tonic-clonic seizure and fetal heart tones.	Eclampsia and Preeclampsia. <b>07-031.</b> Eclampsia. <b>ANS=C.</b> This patient has eclampsia. When an eclamptic seizure occurs, the first priority is to control the convulsions and prevent their recurrence with a 4- to 6-g intravenous or intramuscular loading dose of magnesium sulfate given over 15–20 minutes, followed by a drip at 2 g/hr. Although the only cure for eclampsia is delivery, the patient should be stabilized first. Fetal bradycardia is an expected occurrence during an eclamptic seizure and does not necessitate an emergency cesarean

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>drop to 60 beats/min. Which one of the following is the most appropriate immediate course of action?</li> <li>A) Emergency cesarean section</li> <li>B) Lorazepam (Ativan), 2 mg intravenous push, repeated in 2 minutes if necessary</li> <li>C) Magnesium sulfate, 4 mg loading dose intravenously, followed by a drip at 2 g/hr</li> <li>D) Attachment of a fetal scalp electrode</li> <li>E) Terbutaline (Brethine), 0.25 mg subcutaneously</li> </ul>	section unless it fails to resolve within a few minutes. Lorazepam is frequently used to control seizures in nonpregnant patients, but magnesium sulfate is the agent of choice for an eclamptic seizure. A fetal scalp electrode can be helpful to confirm fetal heart tones, but should not take precedence over trying to control the seizure. Terbutaline is a tocolytic agent that does not have a role in the acute management of an eclamptic seizure.
<ul> <li>08-039. +Ref+Cfp. A 20-year-old female is seen for follow-up 6 weeks after delivery. Her pregnancy was complicated by preeclampsia. Her examination is unremarkable. This patient will be at increased risk for which one of the following in midlife?</li> <li>A) Breast cancer</li> <li>B) Diabetes mellitus</li> <li>C) Hypothyroidism</li> <li>D) Kidney disease</li> <li>E) Hypertension</li> </ul>	Eclampsia and Preeclampsia. <b>08-039.</b> Preeclampsia affects as many as 5% of first pregnancies and is manifested as hypertension, proteinuria, edema, and rapid weight gain after 20 weeks gestation. <b>ANS=E</b> Very young mothers and those over age 35 have a higher risk. Patients who have had preeclampsia have a fourfold increased risk of hypertension and a twofold increased risk of ischemic heart disease, stroke, and venous thromboembolism. There does not appear to be an association between preeclampsia and cancer, breast cancer in particular.
<b>09-013.</b> +Non+Mac. A 23-year-old gravida 1 para 0 at 36 weeks gestation presents to the office complaining of ankle swelling and headache for the past 2 days. She denies any abdominal pain or visual disturbances. On examination you note a fundal height of 35 cm, a fetal heart rate of 140 beats/min, 2+ lower extremity edema, and a blood pressure of 144/92 mm Hg. A urine dipstick shows 1+ proteinuria. A cervical examination reveals 2 cm dilation, 90% effacement, -1 station, and vertex presentation. Which one of the following is the most appropriate next step in the management of this patient? A) Laboratory evaluation, fetal testing, and 24-hour urine for total protein B) Ultrasonography to check for fetal intrauterine growth restriction C) Initiation of antihypertensive treatment D) Immediate induction of labor E) Immediate cesarean delivery	Eclampsia and Preeclampsia. <b>09-013.</b> Preeclampsia. Most likely <b>preeclampsia</b> , defined as an elevated blood pressure and proteinuria after 20 weeks gestation. Further evaluation, including a <b>24-hour urine for</b> quantitative measurement of <b>protein, blood pressure monitoring</b> , and laboratory evaluation that includes <b>hemoglobin, hematocrit, a platelet count, and serum levels of transaminase</b> , <b>creatinine, albumin, LDH, and uric acid.</b> A <b>peripheral smear and coagulation profiles</b> also <b>may be obtained.</b> Antepartum fetal testing, such as a nonstress <b>test</b> to assess fetal well-being, <b>would also be appropriate</b> . Ultrasonography should be done to assess for fetal intrauterine growth restriction, but only after an initial laboratory and fetal evaluation. Delivery is the definitive treatment for preeclampsia. The timing of delivery is determined by the gestational age of the fetus and the severity of preeclampsia in the mother. Vaginal delivery is preferred over cesarean delivery, if possible, in patients with preeclampsia. It is not necessary to start this patient on antihypertensive therapy at this point. An obstetric consultation should be considered for patients with preeclampsia.
<b>07-024.</b> +Ref+Mac+Cfp. A 26-year-old female presents with lower abdominal pain and vaginal bleeding. Her last menstrual period was 7 weeks ago. A urine pregnancy test is positive, and a quantitative B-hCG level is 2500 mIU/mL. Intravaginal ultrasonography shows no evidence of an intrauterine gestational sac. Baseline laboratory tests, including a CBC, liver function tests, and renal function tests, are all normal. She is treated with a single dose of intramuscular methotrexate (Trexall) at 50 mg/m2 of body surface. Four days later the patient presents for reevaluation, and her quantitative B-hCG level is found to be 2800 mIU/mL. Which one of the following is the most appropriate next step? A) A repeat dose of methotrexate, 50 mg/m2 of body surface B) Methotrexate, 1 mg/kg every other day, plus leucovorin, 0.1 mg/kg on alternate days C) Repeat transvaginal ultrasonography to evaluate for a viable intrauterine pregnancy D) Laparoscopy with salpingostomy E) Expectant management	Ectopic pregnancy. <b>07-024.</b> Management of ectopic pregnancy with methotrexate is appropriate in patients who have a B-hCG level <15,000 mIU/mL; who are without liver or renal disease, immune or platelet compromise, or significant pulmonary disease; and who are reliable and able to follow up daily if necessary. Patients may be treated either with single-dose or multiple-dose methotrexate regimens, which may be repeated if the B-hCG level does not decline. If the B-hCG level increases, surgical intervention is needed. Laparoscopy with salpingostomy is the preferred method. Expectant management is appropriate only if a patient has a B-hCG level <1000 mIU/mL that is declining. <b>ANS=D</b> .
<b>10-168.</b> +Car+Adm. A 55-year-old hospitalized white male with a history of rheumatic aortic and mitral valve disease has a 3-day history of fever, back pain, and myalgias. No definite focus of infection is found on your initial examination. His WBC count is 24,000/mm (N 4300–10,800) with 40% 3 polymorphonuclear leukocytes and 40% band forms. The following day, two blood cultures have grown gram-positive cocci in clusters. Until the specific organism sensitivity is known, the most appropriate antibiotic treatment would be A) ciprofloxacin (Cipro) B) nafcillin C) streptomycin and penicillin D) ceftriaxone (Rocephin) E) vancomycin and gentamicin	Endocarditis. 10-168. By a gram-positive coccus. ANS=E. This patient has endocarditis caused by a gram-positive coccus. Until sensitivities of the organism are known, treatment should include intravenous antibiotic coverage for <i>Enterococcus</i> , <i>Streptococcus</i> , and methicillin-sensitive and methicillin-resistant <i>Staphylococcus</i> . A patient who does not have a prosthetic valve should be started on vancomycin and gentamicin, with monitoring of serum levels. <i>Enterococcus</i> and methicillin-resistant <i>Staphylococcus</i> are often resistant to cephalosporins. If the organism proves to be <i>Staphylococcus</i> sensitive to nafcillin, the patient can be switched to a regimen of nafcillin and gentamicin.
<ul> <li>08-221. +Pbc+Cel. Which one of the following is true about end-of-life care?</li> <li>A) Physicians underestimate life expectancies</li> <li>B) Most physicians are comfortable with their level of education in palliative care and pain control</li> <li>C) Most patients who qualify for hospice care receive services early in the course of their illness</li> <li>D) Most terminal patients want their lives prolonged as much as possible</li> <li>E) Most terminal patients express a desire for a sense of control</li> </ul>	End-of-life care. <b>08-221. ANS=E.</b> End-of-life issues are a challenge to primary care physicians because of concerns about a lack of education in pain control and palliative care. Trying to determine the prognosis of patients is difficult, and even with established criteria, the estimated prognosis is right only 50% of the time. There is a tendency for most physicians to overestimate life expectancy in a terminal patient. Most patients who are appropriate candidates for hospice care do not receive referrals until late in their illness, if at all. Patients at the end of life have <b>five main areas of concern: control of pain and other symptoms; avoiding a prolongation of the dying process; having a sense of control; relieving burdens on family and loved ones; and strengthening relationships with family and friends.</b>
<b>09-226.</b> +Pbs+Mhe. You have just received test results confirming that a 78-year- old patient has metastatic lung cancer. She informs you she does not want to know the results of the tests and is "leaving it in God's hands." You know that additional issues need to be explored, such as her desire for chemotherapy and hospice care. Which one of the following is the most appropriate strategy for determining her wishes? A) Acknowledge her concerns, but proceed with a discussion of her diagnosis and prognosis B) Ask family members to gently break the news to your patient and tell them you will return later to discuss the details and answer questions C) Have a hospice representative visit and discuss the	End-of-life care. <b>09-226. ANS=D.</b> In a patient-centered approach to communication regarding end-of-life care, a patient's wishes to not know about a diagnosis or prognosis should be respected. However, it is reasonable to ask the patient to name a proxy with whom you may discuss the issues. The other options listed do not respect the patient's desire to not know her diagnosis or prognosis.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
diagnosis and options for care D) Ask the patient to designate someone with whom you can discuss the results and prognosis	
<ul> <li>07-218. +Ref+Cfp. Of the following, which one has the greatest effect on the relative risk of developing endometrial carcinoma?</li> <li>A) Nulliparity</li> <li>B) Infertility</li> <li>C) Obesity</li> <li>D) High socioeconomic status</li> <li>E) Polycystic ovary disease</li> </ul> 07-035. +Rem+Adm. A 50-year-old married male comes to your clinic complaining of right testicular pain that developed quickly over the last 24 hours.	Endometrial carcinoma. 07-218. ANS=E. The factor associated with the <u>greatest</u> relative risk for endometrial carcinoma is polycystic ovary disease, which has a relative risk of 75. The use of long-term high doses of postmenopausal estrogen carries an estimated risk of 10–20. Living in North America or Europe also has an estimated risk of 10–20. A lower relative risk is associated with nulliparity, obesity, infertility, late menopause, older age, and white race. The relative risk associated with these factors falls into the range of 2–5. Early menarche, higher education or income levels, menstrual irregularities, and a history of diabetes, hypertension, gall bladder disease, or thyroid disease have a relative risk of around 1.5–2.0. The relative risk associated with cigarette smoking is 0.5, and for long-term use of high-dose oral contraceptives it is 0.3–0.5. Epididymo-orchitis. ANS=D. This patient has epididymo-orchitis. This condition is most often caused by coliform bacteria in men over the
He reports no fever, dysuria, or urethral discharge. He is nauseous but has no emesis or diarrhea. His abdominal examination is benign but he has an enlarged, exquisitely tender right hemi-scrotum. A urinalysis is normal and his WBC count is 13,000/mm3 (N 4300–10,800). Testicular ultrasonography shows increased blood flow in the affected testicle and epididymis. Which one of the following would be the best treatment for this patient's condition? A) Ceftriaxone (Rocephin), 250 mg intramuscularly once, plus doxycycline, 100 mg orally twice daily for 10 days, and treatment of all sexual partners B) Clindamycin (Cleocin), 300 mg orally 4 times daily for 7 days C) Famciclovir (Famvir), 250 mg orally 3 times daily for 7 days D) Ofloxacin (Floxin), 300 mg orally twice daily for 10–14 days E) Urgent urologic surgery consultation	age of 35 (and in homosexual males). These organisms are effectively treated with ofloxacin. Those less than age 35 with this condition have a higher chance of having a sexually transmitted disease (STD) and would benefit from intramuscular ceftriaxone and oral doxycycline. However, these medications would not adequately cover coliform bacteria. Clindamycin and famciclovir would also be ineffective. Testicular torsion is another possible cause of testicular pain with a quick onset, and would require urgent urologic surgery consultation. However, in cases of torsion the examination usually reveals an elevated testicle and testicular ultrasonography would show decreased or absent blood flow on the affected side.
<ul> <li>10-216. +Rem+Adm. A 20-year-old male presents with a complaint of pain in his right testis. The onset of pain has been gradual and has been associated with dysuria and urinary frequency. The patient has no medical problems and is sexually active. On examination he has some swelling and mild tenderness of the testis. The area posterior to the testis is swollen and very tender. He has a normal cremasteric reflex, and the pain improves with elevation of the testicle. Which one of the following would be the most appropriate management of this patient?</li> <li>A) Surgical evaluation</li> <li>B) Doppler ultrasonography</li> <li>C) Ceftriaxone (Rocephin) and doxycycline</li> <li>D) Levofloxacin (Levaquin)</li> <li>E) Ciprofloxacin (Cipro)</li> </ul>	Epididymitis. <b>10-216. ANS=C.</b> This patient has epididymitis. In males 14–35 years of age, the most common causes are <i>Neisseria gonorrhoeae</i> and <i>Chlamydia trachomatis</i> . The recommended treatment in this age group is ceftriaxone, 250 mg intramuscularly, and doxycycline, 100 mg twice daily for 10 days (SOR C). A single 1-g dose of azithromycin may be substituted for doxycycline. In those under age 14 or over age 35, the infection is usually caused by one of the common urinary tract pathogens, and levofloxacin, 500 mg once daily for 10 days, would be the appropriate treatment (SOR C). If there is concern about testicular torsion, urgent surgical evaluation and ultrasonography are appropriate. Testicular torsion is most common between 12 and 18 years of age but can occur at any age. It usually presents with an acute onset of severe pain and typically does not have associated urinary symptoms. On examination there may be a high-riding transversely oriented testis with an abnormal cremasteric reflex and pain with testicular evaluation. Color Doppler ultrasonography will show a normal-appearing testis with decreased blood flow.
<ul> <li>07-208. +Gas+Adm. Which class of antibiotics is most likely to induce esophagitis in the elderly?</li> <li>A) Cephalosporins</li> <li>B) Penicillins</li> <li>C) Quinolones</li> <li>D) Sulfonamides</li> <li>E) Tetracyclines</li> </ul>	Esophagus. 07-208. Decreased esophageal peristaltic clearance, which is common among older persons, may be associated with pill retention. ANS=E. Esophageal injury may occur as a result of prolonged contact of the caustic contents of the medication with the esophageal mucosa. <u>Tetracyclines, particularly</u> <u>doxvcycline, are the most common antibiotics associated with esophagitis</u> , but aspirin and all NSAIDs can also damage the esophagus. <u>Other offenders</u> include potassium chloride, quinidine, iron, and alendronate.
<ul> <li>07-230. +Gas+Cca. A 3-year-old white male is brought to your office because of coughing, drooling, chest pain on swallowing, and refusing food for the last 2 days. Other than irritability and clutching his hand to his chest, you find no abnormalities on physical examination. A radiograph of the chest shows what appears to be a coin in the area of the lower esophagus. Which one of the following treatments is most appropriate at this time?</li> <li>A) Watchful waiting</li> <li>B) Administering glucagon to advance the foreign body into the stomach</li> <li>C) Endoscopic removal of the foreign body</li> <li>D) Use of an inflated Foley catheter with radiocontrast dye under fluoroscopy to remove the foreign body</li> <li>E) Use of bougienage to force the foreign body into the stomach</li> </ul>	Esophagus. 07-230. Obstruction. ANS=C. This child ingested a coin without the parent's knowledge (about 40% of foreign body ingestions in children are not witnessed) and has symptoms suggesting esophageal obstruction. Coins are the most common objects ingested by children in the United States. Most blunt objects in the esophagus may be observed up to 24 hours. If a single coin has been lodged in the esophagus for less than 24 hours in a child with no respiratory distress and no prior foreign body ingestion, Foley catheter or bougienage techniques may be tried. For the Foley technique, a Foley catheter is passed beyond the coin and the balloon is inflated with radiocontrast dye, and then is pulled out under fluoroscopy. The potential for airway compromise has prevented this technique from becoming universally accepted. Bougienage is used to push the coin into the stomach, where it should pass spontaneously. In some patients, however, pushing the coin into the stomach may result in an obstruction that requires endoscopic or surgical removal. Objects lodged in the esophagus for more than 24 hours should be removed endoscopically. If the object has been lodged in the esophagus for more than 2 weeks there is a significant risk of erosion into surrounding structures, and surgical consultation should be obtained.
<b>09-100.</b> +Gas+Adm. A 55-year-old female has severe symptoms of gastroesophageal reflux disease. Upper endoscopy with a biopsy shows severe esophagitis and Barrett's esophagus. Which one of the following is true regarding this patient? A) The severity of her symptoms is due to the presence of Barrett's esophagus B) Follow-up screening endoscopy will reduce her risk of death from esophageal cancer C) Her risk of developing esophageal adenocarcinoma is >90% D) Her risk of developing esophageal adenocarcinoma is <1%	Esophagus. <b>09-100.</b> Barrett's and esophagitis. <b>ANS=D.</b> <u>The actual risk of</u> <u>adenocarcinoma from Barrett's esophagus is less than 1%</u> . Endoscopy does nothing to reduce the risk of death. Patients with Barrett's esophagus can have minimal symptoms.

Page 55 of 170

Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Copyrighted Material. ITE Personal Notes. Not for Sale. receive."

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<b>07-128.</b> +Psy+Mhe. A 45-year-old male presents to your office in extreme agitation after a verbal altercation with his boss, during which he was fired. He feels overwhelmed and very angry, and states that he is going to "get" his boss and then "who knows what." Which one of the following is true regarding this situation? A) Physicians have a responsibility to warn and protect intended victims of a patient B) It is dangerous to ask the patient about suicidal tendencies C) If the patient is at high risk for suicide and needs inpatient care, but refuses, he may be allowed to go home if accompanied by a family member D) You and your staff are not at risk for harm. B) The patient's family may be reassured that they are not at risk for harm, as only his boss has been directly threatened	Ethics. <b>07-128.</b> Suicidal or homicidal patient; Physician duties. <b>ANS=A.</b> It has been legally established that physicians have a duty to warn and protect intended victims of a patient. Evaluation of suicide and homicide risks in a crisis situation, including direct questioning of the patient about suicidal and homicidal tendencies, is important and does not lead to further harm. If a suicidal or homicidal patient who needs hospitalization refuses, law enforcement authorities should be contacted. Policies should be in place to ensure the safety of clinic staff in crisis situations. The patient's family may be at risk for harm, and plans to ensure their safety, if needed, are appropriate.
<ul> <li>08-009. +Pbc+Com. A 68-year-old Mexican American female is brought to your office by her son with a complaint of headaches. The patient speaks English adequately, but diverts her eyes to look at her son when answering your questions. Which one of the following is the most likely reason for this patient not making eye contact?</li> <li>A) Her son is overly controlling</li> <li>B) She is a victim of abuse</li> <li>C) She is being untruthful</li> <li>D) She is showing respect to you</li> <li>E) She is depressed</li> </ul>	Ethics. <b>08-009.</b> Nonverbal communication is important for identifying issues that a patient may be hiding or is unwilling to divulge. <b>ANS=D.</b> Some nonverbal clues, however, are culturally biased. Many older or less-educated Mexican-Americans consider direct eye contact to be disrespectful. Because a physician is held in high regard, these patients will often either look down or look at another, more "equal" person in the room while being interviewed. Many Americans, on the other hand, may consider a lack of eye contact to be negative, implying that a patient is unsure of the information they are providing, has poor self-esteem, or is hiding something.
<ul> <li>08-080. +Pbs+Com. Your patient is moving to another state and requests transfer of his medical records. Which one of the following is true regarding this patient's request?</li> <li>A) The medical record should be released only with written permission from a patient or legal representative</li> <li>B) Although it is kept by the physician, the actual medical record is the property of the patient</li> <li>C) A physician may withhold medical record information that could cause undue stress to a patient</li> <li>D) In spite of a patient request, the physician may withhold information from a third party</li> <li>E) A physician has the right to withhold the medical record until medical bills are reaid in full.</li> </ul>	Ethics. <b>08-080.</b> Patient information release. <b>ANS=A.</b> Permission for the release of patient information should always be in writing. Although the actual medical record is the property of the physician, the information in the chart is the property of the patient. Ethically and legally, patients have a right to the information in their medical records, and it cannot be withheld from the patient or a third party (at the request of the patient), even if medical bills are unpaid or the physician is concerned about the patient.
<ul> <li>paid in full</li> <li>08-120. +Pbc+Mhe. A 67-year-old male who recently had a screening colonoscopy presents for follow-up. During the procedure, a mass was discovered in the sigmoid colon and a biopsy revealed a poorly differentiated adenocarcinoma. When you tell the patient you have the test results and can provide information about the prognosis, he says, "To be honest, I can tell that the news is not good, and I would rather not talk about it right now."</li> <li>Which one of the following would be the most appropriate next step?</li> <li>A) Relay the prognosis, but focus as much as possible on any positives</li> <li>B) Discuss the prognosis with the patient's wife, who is in the waiting room C) Ask the patient if he would like to talk again at another time</li> <li>D) Refer the patient to a support group</li> </ul>	Ethics. <b>08-120.</b> Giving bad news. <b>ANS=C.</b> When giving bad news to a patient, it is important to assess how much information the patient wants to know and tailor the discussion accordingly (SOR C). If the patient states that he does not want to know about the prognosis, the most appropriate response is to ask if he would like to talk again at another time. The physician may be regarded as rude, cruel, or uncaring if he persists in providing information that the patient is not ready to hear. In addition, the patient is more at risk for feelings of hopelessness, depression, or anxiety if he is not psychologically ready to hear a bad prognosis. Once the patient verbalizes a readiness to discuss the prognosis, specific information can be provided, focusing on both the positive and negative aspects of the situation. It is not appropriate to discuss the case with the patient's wife, unless he specifically requests she be a proxy to receive the information. Referrals to either a support group or an oncologist should be deferred until the information has been discussed with the patient.
<b>09-027.</b> +Pbs+Com. A 34-year-old white male is brought to the emergency department following an automobile accident in which he was the only occupant of the vehicle. He lost control of the vehicle and hit a utility pole. He was knocked unconscious initially, but he is now awake and combative. You note a strong smell of alcohol. He has a frontal hematoma approximately 3 cm in diameter and an actively bleeding 4-cm laceration of the occiput. He will not permit you to examine him further and he prepares to leave the emergency department. You should A) detain him in the emergency department B) make him sign out against medical advice C) tell him that he cannot return if he leaves D) tell him that if he leaves he can return later	Ethics. <b>09-027.</b> Two of the most important ethical principles in medicine are respect for autonomy and beneficence. Respect for autonomy means regarding patients as rightfully self-governing in matters of choice and action. To make an autonomous decision, the patient must be mentally sound, have knowledge and understanding of the facts, and be free of coercion. Beneficence means that physicians are motivated solely by what is good for the patient. There are often ethical conflicts between these two principles. This particular patient is clearly in need of further emergency treatment, but he refuses. He has had a significant head injury, is combative and possibly intoxicated, and therefore cannot be considered mentally sound. The physician should detain him for his own good and provide the appropriate care. Threatening the patient, having him sign out against medical advice, or encouraging him to return later is not appropriate because his mentation is impaired.
<b>09-114.</b> +Pbs+Com. A patient dying of cancer is suffering from pain in spite of his narcotic regimen. You increase his dosage of morphine, knowing it will probably hasten his death. Which ethical principle are you following? A) Distributive justice B) Double effect C) Death with dignity D) Futility E) Autonomy	Ethics. <b>09-114.</b> Ethical principle, double effect. <b>ANS=B.</b> The concept of "double effect" dates back to the Middle Ages. It is used to justify medical treatment designed to relieve suffering when death is an unintended but foreseeable consequence. It is based on two basic presuppositions: first, that the doctor's motivation is to alleviate suffering, and second, that the treatment is appropriate to the illness. Distributive justice relates to the allocations of resources. Death with dignity is a recently introduced concept and is not a factor in the scenario described here. Futility refers to using a treatment for which there is no rational justification. Autonomy refers to the patient's ability to direct his or her own care, which is not an issue in this case.
<b>09-171.</b> +Pbs+Mhe. Studies indicate that patients most frequently want physicians to ask about their spiritual beliefs in which one of the following situations? A) When being treated for a potentially fatal illness B) During the annual preventive visit C) During the initial office visit with the physician D) Only if specifically requested by the patient, a family member, their minister, or a chaplain E) When	Ethics. <b>09-171.</b> Spiritual discussion. <b>ANS=A.</b> Patients often welcome spiritual discussion, depending on the situation. The percentage that welcome this discussion increases with the severity of illness, and is greatest among those who are very seriously ill with a potentially fatal disease. Spiritual inquiry during medical care should focus on understanding, compassion, and hope, and should be

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
prayer is suggested by the patient or physician	directed toward individuals who suffer from serious illness.
<b>08-176.</b> +Pbs+Com. Information derived from which one of the following	Evidence based medicine. 08-176. In general, the strongest evidence for
provides the best evidence when selecting a specific treatment plan for a patient?	treatment, screening, or prevention strategies is found in systematic reviews,
A) Meta-analysis	meta-analyses, randomized controlled trials (RCTs) with consistent findings, or a
B) Prospective cohort studies C) Expert opinion	single high-quality RCT. <b>ANS=A.</b> Second-tier levels of evidence would be poorer quality RCTs with inconsistent findings, cohort studies, or case-control studies.
D) Consensus guidelines	The lowest quality of evidence would come from such sources as expert opinion,
	consensus guidelines, or usual practice recommendations.
08-033. +Res+Adm. A 22-year-old competitive cross-country skier presents with	Exercise. 08-033. Exercise-induced bronchoconstriction (EIB) is a very common
a complaint of not being able to perform as well as she expects. She has been	and underdiagnosed condition in athletes. ANS=D. It is defined as a 10%
training hard, but says she seems to get short of breath more quickly than she	lowering of FEV1 when challenged with exercise. The exercise required to cause
should. She also coughs frequently while exercising. A review of systems is otherwise negative. Her family history is negative for cardiac or pulmonary	bronchoconstriction is 5–8 minutes at 80% of maximal oxygen consumption. EIB is much more common in high-ventilation sports, such as track and cross-country
diseases. Her physical examination is completely normal, and pulmonary function	skiing. It is also more common in winter sports, because of the inspiration of cold,
tests obtained before and after bronchodilator use are normal. After you discuss	dry air. In some studies the incidence among cross-country skiers is as high as
your findings with the patient, she acknowledges that her expectations may be too	50%, and 40% of those who have positive tests for bronchospasm are unaware of
high, but can think of no other cause for her problem. Which one of the following	the problem. A physical examination, as well as pulmonary function tests at rest
would be the next reasonable step?	and before and after bronchodilators, will be normal unless there is underlying
A) An echocardiogram to look for cardiomyopathy or valvular dysfunction	asthma. Among athletes with EIB, 10% will not have asthma.
B) Counseling regarding competition stress and athlete burnout syndrome C) A sports medicine consultation to evaluate her training regimen	Bronchoprovocative testing can be ordered, but if it is not available a trial with an albuterol inhaler is reasonable. Cardiomyopathy or valvular dysfunction not found
D) A trial of inhaled albuterol (Proventil) for exercise-induced bronchospasm	during the physical examination is possible, but much less likely. Psychological
- )	stresses are also a possible etiology, but should not receive undue attention,
	especially when simple questioning is not productive and more likely diagnoses
	have not been ruled out. Poor training methods are also possible, but in a
	competitive athlete this is not the most likely cause.
<b>09-035.</b> +Car+Adm. At a routine visit, a 40-year-old female asks about beginning an everyise regimen. She has a family history of heart disease and hypertension	Exercise. <b>09-035.</b> Recommendations. This patient would benefit from exercise to prevent or delay the onset of heart disease and hypertension, and to manage her
an exercise regimen. She has a family history of heart disease and hypertension. She currently has no medical problems, but she is sedentary. Which one of the	prevent or delay the onset of heart disease and hypertension, and to manage her weight. Exercise stress testing is not specifically indicated for this patient. Current
following would be the most <b>appropriate recommendation</b> for this patient? A)	recommendations are for healthy adults to engage in 30 minutes of
Fast walking for 30 minutes on 5 or more days per week B) Jogging for 30	accumulated moderate-intensity physical activity on 5 or more days per
minutes every other day C) Weight training once weekly D) An exercise stress	week.
test prior to beginning exercise E) A baseline EKG and rhythm strip	
<b>09-012.</b> +Sen+Euc. A 55-year-old male is brought to the emergency department with a complaint of pain in the right available and reduced vision of about 10 minutes'	Eye conditions. <b>09-012.</b> Globe rupture. Ans=B. Relief of pain with an analgesic is
with a complaint of pain in the right eye and reduced vision of about 10 minutes' duration. His eye was injured while he was hitting a metal stake with a sledge	appropriate before transfer. Because of a risk of extruding intraocular fluid, tonometry should not be attempted if globe rupture is suspected. A rapid
hammer. He was not wearing safety goggles. On examination you note a	assessment of gross visual acuity (e.g., counting fingers, seeing light versus dark)
subconjunctival hemorrhage completely surrounding the cornea. The iris is	may be performed. An eye shield should be placed over the affected eye to avoid
irregular. Which one of the following is contraindicated prior to emergency	putting pressure on the eye during transport to the ophthalmologist. Because the
transfer to an ophthalmologist? A) Administering an analgesic B) Attempting	Valsalva effect from vomiting may lead to extrusion of intraocular contents, an
tonometry C) A visual acuity test D) Use of an eye shield E) Administering an antiemetic	antiemetic would be appropriate before transfer as well.
<b>09-119.</b> +Sen+Euc. A 27-year-old male was roughhousing with his children when	Eye conditions. <b>09-119.</b> Abrasion, infection. <b>ANS=E.</b> A white or gray appearance
he was accidentally struck in the left eye. He immediately felt pain in the eye, and	at the edge of a corneal abrasion may indicate infection, and referral to an
over the next hour noted increased tearing, pain with blinking, increasing	ophthalmologist is indicated. Mydriatic agents and eye patching are ineffective for
headache, and a foreign-body sensation. You see the patient the next day, and	corneal abrasions and are not recommended (SOR A). Progression to recurrent
examination with flourescein dye and a cobalt-blue filtered light reveals a corneal	corneal erosion may occur years after a corneal abrasion. Symptoms mimic the
abrasion. Appropriate management includes which one of the following? A) An eye patch for 24–48 hours B) Mydriasis with a short-acting agent, such as	initial corneal abrasion, and tearing on awakening is common. Topical anesthetics should be administered only in the office; if a patient uses the medication at home,
tropicamide ophthalmic (Mydriacyl) C) A topical anesthetic instilled every 4	it can delay healing and mask complications.
hours if no foreign body or infection is found D) Topical corticosteroid drops E)	it can delay nearing and mask completations.
Referral to an ophthalmologist if the edge of the abrasion is white or gray	
10-132. +Sen+Cel. A 72-year-old white male presents with a complaint of	Eye conditions. 10-132. Glaucoma. Acute angle-closure. ANS=D. This patient
headache, blurred vision, and severe right eye pain. His symptoms began acutely	presents with acute angle-closure glaucoma, manifested by an acute onset of
about 1 hour ago. Examination of the eye reveals a mid-dilated, sluggish pupil; a	severe pain, blurred vision, halos around lights, increased intraocular pressure, red
hazy cornea; and a red conjunctiva. Which one of the following is the most likely diagnosis?	conjunctiva, a mid-dilated and sluggish pupil, and a normal or hazy cornea. Findings with retinal detachment include either normal vision or peripheral or
A) Retinal detachment	central vision loss; absence of pain; increasing floaters; and a normal conjunctiva,
B) Central retinal artery occlusion	cornea, and pupil. Central retinal artery occlusion findings include amaurosis
C) Mechanical injury to the globe	fugax, a red conjunctiva, a pale fundus, a cherry-red spot at the fovea, and
D) Acute angle-closure glaucoma	"boxcarring" of the retinal vessels. In patients with mechanical injury to the globe,
	findings include moderate to severe pain, normal or decreased vision,
	subconjunctival hemorrhage completely surrounding the cornea, and a pupil that is irregular or deviated toward the injury (SOR B).
<b>10-145.</b> +Sen+Csp. A 67-year-old female comes to your office because she	Eye consditions. <b>10-145.</b> Retinal detachment. <b>10-145.</b> ANS=E. In a patient
noticed flashing lights in her left eye 2 hours ago, and since then has had	complaining of flashes of light and a visual field defect, retinal detachment is the
decreased vision in the lateral aspect of that eye. On examination she has a blind	most likely diagnosis. Many cases of vitreous detachment are asymptomatic, and
spot in the lateral visual field of her left eye. Her fundus is difficult to examine	it does not cause sudden visual field defects in the absence of a retinal
because of an early cataract. Which one of the following is the most likely	detachment. A vitreous hemorrhage would cause more blurring of vision in the
diagnosis? A) Posterior vitreous detachment	entire field of vision. Ocular migraine causes binocular symptoms.
B) Vitreous hemorrhage	
C) Macular degeneration	
D) Ocular migraine	
E) Retinal detachment	
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 57 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul><li>09-156. +Non+Adm. A 36-year-old female consults you because of concerns about "fatigue." After carefully reviewing her history and performing a physical examination, which one of the following would be LEAST valuable in assessing this patient?</li><li>A) A baseline serum cortisol level</li><li>B) An erythrocyte sedimentation rate</li></ul>	Fatigue, workup. <b>09-156. ANS=A.</b> In patients with fatigue, family physicians should complete an appropriate history and physical examination. Laboratory studies should be considered, although the results affect management in only 5% of patients. <b>A baseline cortisol level would be valuable only in patients with significant findings of Addison's disease.</b> In addition to an erythrocyte sedimentation rate, a complete metabolic panel, and a TSH level, many physicians
C) A complete metabolic panel D) A TSH level	request a CBC and a urinalysis. A pregnancy test should be ordered for women of childbearing age. No other tests have been shown to be useful unless a specific
E) A pregnancy test 08-064. +Pbc+Cca. A 3-week-old infant is brought to your office with a fever. He	medical condition is suspected. Febrile illness. <b>08-064.</b> Any child younger than 29 days old with a fever and any
has a rectal temperature of 38.3°C (101.0°F), but does not appear toxic. The remainder of the examination is within normal limits. Which one of the following would be the most appropriate management for this patient? A) Admit to the hospital; obtain urine, blood, and CSF cultures; and start intravenous antibiotics B) Admit to the hospital and treat for herpes simplex virus infection C) Follow up in the office in 24 hours and admit to the hospital if not improved D) Order a CBC and urinalysis with urine culture, and send the patient home if the results are normal	child who appears toxic, regardless of age, should undergo a complete sepsis workup and be admitted to the hospital for observation until culture results are known or the source of the fever is found and treated (SOR A). <b>ANS=A</b> . Observation only, with close follow-up, is recommended for nontoxic infants 3– 36 months of age with a temperature <39.0°C (102.2°F) (SOR B). Children 29–90 days old who appear to be nontoxic and have negative screening laboratory studies, including a CBC and urinalysis, can be sent home with precautions and with follow-up in 24 hours (SOR B). Testing for neonatal herpes simplex virus infection should be considered in patients with risk factors, including maternal infection at the time of delivery, use of fetal scalp electrodes, vaginal delivery, cerebrospinal fluid pleocytosis, or herpetic lesions. Testing also should be considered when a child does not respond to antibiotics (SOR C).
<b>08-097.</b> +Pbc+Cca. The parents of a 40-day-old infant bring her to your clinic because she has had a persistent fever for the past 2 days with rectal temperatures between $38.1^{\circ}$ C ( $100.5^{\circ}$ F) and $38.9^{\circ}$ C ( $102.0^{\circ}$ F). She has been fussy and wants to be held, but has been nursing well. She is crying when you enter the room, and on examination she has good skin turgor and capillary refill. The examination does not reveal any obvious source of infection. By the time you complete the examination the infant is resting quietly in her father's arms. You obtain a CBC and urinalysis. The WBC count is 12,500/mm3 (N 5000–19,500) with an absolute neutrophil count of 9500/mm3 (N 1000–9000). The urinalysis is within normal limits. Which one of the following would be most appropriate at this time? A) Home care and parental observation only, as long as the temperature remains under $39.0^{\circ}$ C ( $102.2^{\circ}$ F) B) Home care and reevaluation in 24 hours C) Oral antibiotics and reevaluation in 24 hours D) A complete sepsis workup, including blood cultures, stool studies, a chest radiograph, and cerebrospinal fluid studies	Febrile filness. <b>08-097</b> . <b>ANS=B</b> . Most children will be evaluated for a febrile illness before 36 months of age, with the majority having a self-limited viral illness. <u>Nontoxic-appearing febrile infants 29–90 days of age who have a</u> <u>negative screening laboratory workup, including a CBC with differential and</u> <u>a normal urinalysis, can be sent home and followed up in 24 hours</u> (SOR B). A second option is to obtain blood cultures and stool studies, or a chest film if <u>indicated by the history or examination, and spinal fluid studies if empiric</u> <u>antibiotics are to be given</u> . This infant's clinical status did not indicate that any of these additional studies should be performed, and empiric antibiotic treatment is not planned. <u>Observation with no follow-up is an appropriate strategy in</u> <u>nontoxic children, but only if the child is 3–36 months of age and the</u> <u>temperature is under 39°C</u> (SOR B). Nontoxic children 3–36 months of age should be reevaluated in 24–48 hours if the temperature is over 39°C. Although a positive response to antipyretics has been considered an indication of a lower risk of serious bacterial infection, there is no correlation between fever reduction and the likelihood of such an infection. <u>Any infant younger than 29 days, and any</u> <u>infant or child with a toxic appearance regardless of age, should undergo a</u> <u>complete sepsis workup and be admitted for observation until culture results</u>
<ul> <li>10-088. +Non+Adm.&gt;L* A 17-year-old female sees you for a preparticipation evaluation. She has run 5 miles a day for the last 6 months, and has lost 6 lb over the past 2 months. Her last menstrual period was 3 months ago. Other than the fact that she appears to be slightly underweight, her examination is normal. To fit the criteria for the female athlete triad, she must have which one of the following? A) A formal diagnosis of an eating disorder</li> <li>B) Amenorrhea for 1 year</li> <li>C) A Z-score on bone-density testing of -2.5 or less</li> <li>D) Withdrawal bleeding after progesterone administration</li> <li>E) A history of a stress fracture resulting from minimal trauma</li> </ul>	<b>are obtained or the source of the fever is found and treated</b> (SOR A). Female athlete triad. <b>10-088. ANS=E.</b> The initial definition of the female athlete triad was amenorrhea, osteoporosis, and disordered eating. The American College of Sports Medicine modified this in 2007, emphasizing that the triad components occur on a continuum rather than as individual pathologic conditions. The definitions have therefore expanded. Disordered eating is no longer defined as the formal diagnosis of an eating disorder. Energy availability, defined as dietary energy intake minus exercise energy expenditures, is now considered a risk factor for the triad, as dietary restrictions and substantial energy expenditures disrupt pituitary and ovarian function. Primary amenorrhea is defined as lack of menstruation by age 15 in females with secondary sex characteristics. Secondary amenorrhea is the absence of three or more menstrual cycles in a young woman previously experiencing menses. For those with secondary amenorrhea, a pregnancy test should be performed. If this is not conclusive, a progesterone challenge test may be performed. If there is withdrawal bleeding, the cause would be anovulation. Those who do not experience withdrawal bleeding have hypothalamic amenorrhea, and fit one criterion for the triad. Athletes who have amenorrhea for 6 months, disordered eating, and/or a history of a stress fracture resulting from minimal trauma should have a bone density test. <i>Low bone mineral density for age</i> is the term used to describe at-risk female athletes with a Z-score of $-1$ to $-2$ . Osteoporosis is defined as having clinical risk factors for experiencing a fracture, along with a Z-score $< -2$ .
<ul> <li>08-224. +Ref+Mac. Late decelerations on fetal monitoring are thought to indicate which one of the following?</li> <li>A) Fetal head compression</li> <li>B) Umbilical cord compression</li> <li>C) Fetal sleep</li> <li>D) Uterine hypotonus</li> <li>E) Uteroplacental insufficiency</li> </ul>	Fetal monitoring. <b>08-224</b> . Late decelerations are thought to be associated with uteroplacental insufficiency and fetal hypoxia due to decreased blood flow in the placenta. <b>ANS=E</b> . This pattern is a warning sign and is associated with increasing fetal compromise, worsening fetal acidosis, fetal central nervous system depression, and/or direct myocardial hypoxia. Early decelerations are thought to result from vagus nerve response to fetal head compression, and are not associated with increased fetal mortality or morbidity. Variable decelerations are thought to be due to acute, intermittent compression of the umbilical cord between fetal parts and the contracting uterus.
<b>09-236.</b> +Ref+Mac. A 25-year-old female is in active labor at term and is dilated to 7 cm. An electronic fetal monitoring tracing is shown in <b>Figure</b> . Which one of the following is a possible etiology for this fetal heart rate pattern? A) Normal progress of labor B) Maternal fever C) Effects of epidural anesthesia D) Post-	Fetal monitoring. <b>09-236</b> . Electronic fetal monitoring. <b>ANS=B</b> . This tracing shows fetal tachycardia, defined as a baseline fetal heart rate >160 beats/min for at least 15 minutes. This is considered a nonreassuring pattern. Causes of fetal tachycardia include maternal fever, fetal hypoxia, hyperthyroidism, maternal or

Mario's ITE database V2010.007 dates pregnancy E) Umbilical cord prolapse	Document copy for the sole personal use of Dr. Mario Alberto Jimenez fetal anemia, medication effects of parasympatholytic or sympathomimetic drugs,
addets     programmety     programme	chorioamnionitis, fetal tachyarrhythmia, and prematurity. Fetal tachyardia is not a sign of normal progression of labor. Epidural anesthesia, post-dates pregnancy, and umbilical cord prolapse would all be causes of fetal bradycardia.
<b>08-076.</b> +Neu+Adm. A 35-year-old female presents with pain in her neck, back,	Fibromyalgia. 08-076. ANS=E. The etiology of fibromyalgia remains unknown,
and shoulder, as well as a complaint of poor sleep and fatigue. For the last 6 months she has experienced burning in her low back that radiates to her buttocks, and she feels that her joints are swollen even though there is no objective evidence of this. She also experiences morning stiffness that improves as the day progresses. A physical examination is unremarkable with the exception of palpation of 14 different tender points above and below the diaphragm, including the upper border of the trapezius muscle, the second rib space 3 cm lateral to the sternal border bilaterally, both lateral epicondyles, the upper outer quadrants of both gluteal muscles, and the radial fat pad of both knees. Laboratory tests, including a CBC, a chemistry profile, thyroid function tests, and an erythrocyte sedimentation rate, all are within normal limits. Which one of the following would be the most helpful treatment for this patient? A) Massage therapy B) NSAIDs C) Trigger-point injections D) Corticosteroids E) Cognitive-behavior therapy <b>09-081.</b> +Mus+Adm. Fibromyalgia is characterized by tender trigger points	but it is a common condition that is underdiagnosed. It is much more common in women than in men; additional risk factors include being divorced, having a low income level, and not completing high school. The pathogenesis may be related to central sensitization and dysregulation of the hypothalamic (pituitary) adrenal axis. Commonly associated symptoms include headache (often migraine in type), anxiety, depression, and dizziness. The diagnosis is specific, and requires the finding of at least 11 tender points in 18 possible specific anatomic locations, with the pain occurring both above and below the waist on both sides of the body for at least 3 months. There is strong evidence for the effectiveness of both pharmacologic therapies such as cyclobenzaprine and nonpharmacologic therapies such as aerobic exercise, cognitive-behavioral therapy, and multidisciplinary approaches that include patient education and exercise. The evidence of effectiveness is weak for chiropractic therapy, electrotherapy, massage therapy, and ultrasound. There is no known benefit from corticosteroids, opioids, thyroid hormone, NSAIDs, melatonin, flexibility exercises, or trigger-point injections. Fibromyalgia. <b>09-081. ANS=A.</b> The typical fibromyalgia trigger points lie along
<ul> <li>A) along the medial border of each scapula</li> <li>B) bilaterally at the anatomic snuffbox</li> <li>C) at the insertion of the Achilles tendon into the posterior heel</li> <li>D) at the second and third web spaces on the plantar surface of the foot</li> <li>10-107. +Mus+Adm. Which one of the following is most appropriate for the treatment of fibromyalgia syndrome?</li> </ul>	<ul> <li>Fibromyalgia. 10-107. Fibromyalgia syndrome. ANS=E. A meta-analysis of antidepressant medications for the treatment of fibromyalgia syndrome concluded</li> </ul>
<ul> <li>A) Metaxalone (Skelaxin)</li> <li>B) Hydrocodone</li> <li>C) Naproxen</li> <li>D) Tizanidine (Zanaflex)</li> <li>E) Amitriptyline</li> </ul>	that short-term use of amitriptyline and duloxetine can be considered for the treatment of pain and sleep disturbance in patients with fibromyalgia. In addition, a 2008 evidence-based review for the management of fibromyalgia syndrome performed for the European League Against Rheumatism recommends heated pool treatment with or without exercise, tramadol for the management of pain, and certain antidepressants, including amitriptyline. Evidence for long-term effectiveness of antidepressants in fibromyalgia syndrome is lacking, however.
<ul> <li>08-082. +Pbc+Cca. The parents of three children ask your advice about the need for fluoride supplementation in order to prevent tooth decay. Which one of the following is true regarding current U.S. Preventive Services Task Force guidelines for fluoride supplementation?</li> <li>A) It is not recommended due to potential fluoride toxicity</li> <li>B) Dental fluoride varnish is too toxic for routine use</li> <li>C) Oral fluoride supplementation is recommended if the primary drinking water source is low in fluoride</li> <li>D) Fluoridated toothpaste provides adequate protection if used as soon as the child has teeth</li> <li>E) The need for fluoride supplementation is determined by serum fluoride levels</li> </ul>	Fluoride supplementation. <b>08-082.</b> Dental caries. The current (2004) recommendation of the U.S. Preventive Services Task Force is that children over the age of 6 months receive oral fluoride supplementation if the primary drinking water source is deficient in fluoride. <b>ANS=C.</b> They cite "fair evidence" (B recommendation) that such supplementation reduces the incidence of dental caries and conclude that the overall benefit outweighs the potential harm from dental fluorosis. Dental fluorosis is chiefly a cosmetic staining of the teeth, is uncommon with currently recommended doses, and has no other functional or physiologic consequences. Fluoridated toothpaste can cause fluorosis in children younger than 2 years of age, and is therefore not recommended in this age group. By itself it does not reliably prevent tooth decay. Fluoride varnish, applied by a dental or medical professional, is another treatment option to prevent caries. It provides longer lasting protection than fluoride rinses, but since it is less concentrated, it may carry a lower risk of fluorosis than other forms of supplementation. Oral fluoride supplementation for children over the age of 6 months is based not only on age but on the concentration of fluoride in the primary source of drinking water, whether it be tap water or bottled water. Most municipal water supplies in the U.S. are adequately fluoridated, but concentrations vary. Fluoride concentrations is pottled water vary widely. If the concentration is greater than 0.6 ppm no supplementation is needed, and if given, may result in fluorosis. Lower concentrations. <b>ANS=A</b> . This is a typical presentation of staphylococcal food
<b>109-210.</b> +Gas+Com. A S0-year-old male comes to your office for a "doctor's excuse" for days of work he missed last week. He attended a picnic where he and other guests developed nausea and vomiting 2 hours after eating. Within 48 hours, the symptoms had resolved. The most likely etiology of the illness is which one of the following? A) <i>Staphylococcus</i> B) <i>Clostridium botulinum</i> C) <i>Clostridium perfringens</i> D) <i>Clostridium difficile</i> E) Actinomycos	poisoning. The symptoms usually begin 1–6 hours after ingestion and resolve within 24–48 hours. Foodborne botulism is most commonly found in homecanned foods, and symptoms begin 18–36 hours after ingestion. <i>Clostridium perfringens</i> is transmitted in feces and water, and symptoms begin 6–24 hours after ingestion. <i>Clostridium difficile</i> is associated with antibiotic use. Actinomycosis causes local abscesses, not gastroenteritis.
10-111. +Mus+ Cel.?* A 91-year-old white male presents with a 6-month history	Foot problems. 10-111. In elderly. ANS=B. The treatment of foot problems in the

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>of a painless ulcer on the dorsum of the proximal interphalangeal joint of the second toe. Examination reveals a hallux valgus and a rigid hammer toe of the second digit. His foot has mild to moderate atrophic skin changes, and the dorsal and posterior tibial pulses are absent. Appropriate treatment includes which one of the following?</li> <li>A) Surgical correction of the hammer toe</li> <li>B) Custom-made shoes to protect the hammer toe</li> <li>C) Bunionectomy</li> <li>D) A metatarsal pad</li> </ul>	elderly is difficult because of systemic and local infirmities, the most limiting being the poor vascular status of the foot. Conservative, supportive, and palliative therapy replace definitive reconstructive surgical therapy. Surgical correction of a hammer toe and bunionectomy could be disastrous in an elderly patient with a small ulcer and peripheral vascular disease. The best approach with this patient is to prescribe custom-made shoes and a protective shield with a central aperture of foam rubber placed over the hammer toe. Metatarsal pads are not useful in the treatment of hallux valgus and a rigid hammer toe.
07-099. +Mus+Cca. A 10-year-old male is brought to your office with pain and swelling of the knee after falling out of a tree. A physical examination is notable for point tenderness and swelling at the proximal tibia. A radiograph shows a displaced fracture of the proximal tibia through the physis and epiphysis. The most appropriate management is A) a long leg cast B) a rigid knee immobilizer C) a functional (hinged) knee immobilizer D) orthopedic referral Epiphysis Capital epiphysis (growth plate) Metaphysis OIIII 2005	Fracture, Lower Extremeties. <b>07-099.</b> Salter-Harris. <b>Pain, knee.</b> Physeal injuries are unique to children, and account for approximately one-fourth of all pediatric fractures. <b>ANS=D.</b> This child has a Salter-Harris fracture that requires referral to an orthopedist. <b>Salter-Harris type I injury is a fracture through the hypertrophic cartilage that causes widening of the physeal space.</b> These fractures are difficult to diagnose radiographically, but their clinical hallmark is <b>point tenderness at the epiphyseal plate. Type II fractures are the most common, and extend through both the physis and metaphysis.</b> Although these fractures may result in some shortening, they rarely cause functional deformities. <b>Type III injuries extend through the physis and epiphysis, disrupting the reproductive layer of the physis.</b> These injuries may cause chronic sequelae because they disrupt the articular surface of the bone, but they do not produce deformities and generally have a good prognosis. <b>Type IV injuries cross through the epiphysis, physis, and metaphysis.</b> These fractures are also intra-articular, increasing the risk for chronic disability. They can disrupt the proliferative zone, leading to early fusion and growth deformity. Type V fractures are the least common but most difficult to diagnose, and have the worst prognosis. The classic mechanism of injury is an axial force that compresses the epiphyseal plate without an overt fracture of the epiphysis or metaphysis.
<ul> <li>07-168. +Mus+Euc. A 17-year-old white male presents with facial swelling and difficulty chewing food. He tells you the symptoms resulted from a fight. On examination you note trismus and left periorbital swelling. Which one of the following fractures is most likely?</li> <li>A) Zygomatic arch B) Inferior orbital floor C) Medial orbital floor D) Basal skull E) Nasal septum</li> <li>Trismus: persistent contraction of the masseter muscles due to failure of central inhibition.</li> </ul>	Fracture, Lower Extremeties. <b>07-168.</b> Zygomatic arch. Fractures involving the zygomatic arch frequently cause trismus. <b>ANS=A</b> . Many of these fractures are tripod-type fractures. Dental malocclusion and temporomandibular joint pain are common. Inferior orbital fractures may be associated with numbness of the cheek if the infraorbital nerve is involved. They are also sometimes associated with limited upward gaze if the infraorbital muscle is involved. The medial orbital wall may be involved in blowout fractures. Limitation of abduction of the involved eye may result. Basal skull fractures may result in bilateral periorbital buising or "raccoon eyes." The most serious complication of nasal fractures is a nasal septal hematoma. This can cause necrosis of the septal cartilage if not promptly treated.
<b>09-061.</b> +Mus+Csp. A 40-year-old runner complains of gradually worsening pain on the lateral aspect of his foot. He runs on asphalt, and has increased his mileage from 2 miles/day to 5 miles/day over the last 2 weeks. Palpation causes pain over the lateral 5th metatarsal. The pain is also reproduced when he jumps on the <u>affected leg</u> . When you ask about his shoes he tells you he bought them several years ago. Which one of the following is the most likely diagnosis? A) Ligamentous sprain of the arch B) Stress fracture C) Plantar fasciitis D) Osteoarthritis of the metatarsal joint	Fracture, Lower Extremeties. <b>09-061.</b> Stress. <b>ANS=B.</b> Running injuries are primarily caused by overuse due to training errors. Runners should be instructed to increase their mileage gradually. A <b>stress fracture causes localized</b> <b>tenderness and swelling in superficial bones, and <u>the pain can be reproduced</u> <u>by having the patient jump on the affected leg. Plantar fasciitis causes</u> <u>burning pain in the heel and there is tenderness of the plantar fascia</u> where it inserts onto the medial tubercle of the calcaneus.</b>
<ul> <li>07-090. +Mus+Euc. A 5-year-old male is brought to your office with forearm pain after a fall, and you diagnose a non-angulated buckle fracture of the distal radius and ulna. Which one of the following treatments has the best functional outcome at 3-4 weeks?</li> <li>A) An ACE wrap</li> <li>B) A removable splint</li> <li>C) A long arm cast</li> <li>D) A thumb spica cast</li> <li>E) Surgical reduction and internal fixation</li> </ul>	Fracture, Upper Extremeties. 07-090. Buckle of the wrist. ANS=B. Although casting for 3–4 weeks with a short arm cast has been the traditional treatment for buckle fractures of the wrist, <u>functional outcome in the short</u> term is better with a simple removable splint, and management is easier. Long-term outcomes are good with either treatment. Rigid splinting adds to short-term functional stiffness, and a wet cast or foreign bodies placed between the cast and skin necessitate additional visits. Surgical approaches are contraindicated and would not improve healing or position.
<b>07-238.</b> +Mus+Euc. A 32-year-old male comes to your office for the second time for wrist pain following a fall on the ice 10 days ago. At his first visit, examination of the wrist showed no deformity or swelling, but extension was decreased and he had diffuse tenderness over the dorsum of the wrist, particularly just distal and dorsal to the radial styloid. A radiograph is shown. Which one of the following do the radiographs reveal? A) A dislocated lunate B) A fracture of the scaphoid C) A hamate fracture D) A scapholunate dislocation	Fracture, Upper Extremeties. <b>07-238.</b> Scaphoid. <b>ANS=B.</b> A dorsiflexion injury will typically cause a scaphoid fracture in a young adult, resulting in tenderness to palpation over the anatomic snuffbox. Often the plain posterior-anterior wrist radiograph is normal. However, a special view with the wrist prone in ulnar deviation elongates the scaphoid, often demonstrating subtle navicular fractures. Hook of the hamate fractures cause tenderness at the proximal hypothenar area 1 cm distal to the flexion crease of the wrist. When this fracture is suspected, carpal tunnel and supinated oblique view radiographs should be obtained. A scapholunate dislocation can be identified with a "clenched-fist" view and the supinated view in ulnar deviation.

## Mario's ITE database V2010.007



Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	Boxer's fracture
<ul> <li>09-217. +Mus+Csp. Surgical management for an acute midshaft clavicle fracture would be appropriate in which one of the following?</li> <li>A) An 11-year-old male with a comminuted fracture</li> <li>B) A 15-year-old female with a ½-cm displaced fracture</li> <li>C) A 30-year-old male with a ½-cm displaced fracture</li> <li>D) A 40-year-old male with a nondisplaced fracture</li> </ul>	Fracture, Upper Extremeties. <b>09-217.</b> Clavicle. Midshaft clavicle fractures are usually treated nonoperatively, but have a higher risk of nonunion. <b>ANS=E</b> . Risk factors for nonunion include female gender, fracture comminution or displacement, clavicle shortening, advanced age, and greater extent of initial trauma. These fractures in children heal extremely well, even if displaced or comminuted, because of periosteal regenerative potential.
E) A 50-year-old female with a comminuted fracture 09-240. +Mus+Cca. A 5-year-old male fell while playing and complained that his wrist hurt. The next day he is brought to your office because he refuses to use his arm. Which one of the following best describes the condition seen in the radiographs shown in Figure? A) A normal appearance B) A radial fracture C) An ulnar fracture D) A radioulnar fracture E) Indeterminate result	Fracture, Upper Extremeties. <b>09-240.</b> Radial. <b>ANS=B.</b> Even though they are the most common fracture in this age group, radial fractures can be missed by clinicians. <b>The bend in the cortex of the distal radius indicates the fracture. Sometimes referred to as a buckle or torus fracture</b> , it will heal with almost any choice of treatment. Most clinicians opt for casting to reduce the chance of reinjury during the first few weeks of healing, but the parents' preferences in this regard are important. Some pediatric long-bone fractures involve growth plates, and the results can be indeterminate, requiring either more advanced imaging or comparison views of the opposite limb.
<ul> <li>10-071. +Mus+Euc.?* While playing tennis, a 55-year-old male tripped and fell, landing on his outstretched hand with his elbow in slight flexion at impact. Pronation and supination of the forearm are painful on examination, as are attempts to flex the elbow. There is tenderness of the radial head without significant swelling. A radiograph of the elbow shows no fracture, but a positive fat pad sign is noted. Appropriate management would include</li> <li>A) a long arm cast for 2 weeks, followed by use of a brace</li> <li>B) mobilization of the elbow beginning 3 weeks after the injury</li> <li>C) a posterior splint for 6 weeks</li> <li>D) a posterior splint and a repeat radiograph in 1–2 weeks</li> </ul>	Fracture, Upper Extremeties. <b>10-071.</b> Radial head. <b>ANS=D.</b> Nondisplaced radial head fractures can be treated by the primary care physician and do not require referral. Conservative therapy includes placing the elbow in a posterior splint for 5–7 days, followed by early mobilization and a sling for comfort. Sometimes the joint effusion may be aspirated for pain relief and to increase mobility. One study compared immediate mobilization with mobilization beginning in 5 days and found no differences at 1 and 3 months, but early mobilization was associated with better function and less pain 1 week after the injury. Radiographs should be repeated in 1–2 weeks to make sure that alignment is appropriate.
<ul> <li>10-222. +Mus+Adm. While playing basketball, a 29-year-old male falls on his outstretched hand with his wrist fully extended. He sees you the following day because of diffuse wrist pain and decreased range of motion. The point of maximal tenderness is on the dorsal aspect of the wrist between the extensor pollicis brevis and extensor pollicis longus tendons. There is no visible deformity. Radiographs show no fracture. Which one of the following is the most appropriate initial treatment of this patient?</li> <li>A) A wrist extension splint</li> <li>B) An ulnar gutter splint</li> <li>C) A thumb spica splint</li> <li>D) A short arm cast</li> </ul>	Fracture, Upper Extremeties. <b>10-222.</b> Scaphoid. <b>ANS=C.</b> The scenario described is suspicious for an occult fracture of the scaphoid bone of the wrist. The mechanism of injury, falling on an outstretched hand with the wrist extended, combined with tenderness in the anatomic snuff box (between the extensor pollicis longus and extensor pollicis brevis tendons) raises the possibility of a scaphoid fracture even if initial radiographs are negative. In order to reduce the potential for serious complications, including vascular necrosis and non-union, it is imperative that both the wrist and the thumb be immobilized. In the case described, a thumb spica splint is the best option initially. It should be worn continuously until a follow-up evaluation, including radiographs, in 1–2 weeks.
<ul> <li>E) Physical therapy</li> <li>10-234. +Mus+Euc.&gt;L?* A 35-year-old right-handed softball player injures his left wrist when sliding into second base. When he sees you the next day his description of the injury indicates that he hyperextended his wrist while sliding, and the pain was later accompanied by swelling. Your examination is remarkable only for mild swelling and tenderness of the dorsal wrist, distal to the ulnar styloid. A radiograph of the wrist is shown in Figure 2. Which one of the following best describes this injury?</li> <li>A) Triquetral fracture</li> <li>B) Scaphoid (navicular) fracture</li> </ul>	Fracture, Upper Extremeties. <b>10-234</b> Wrist; triquetral. <b>ANS=A.</b> Triquetral Fractures typically occur with hyperextension of the wrist. Dorsal avulsion fractures are more common than fractures of the body of the bone. Tenderness is characteristically noted on the dorsal wrist on the ulnar side distal to the ulnar styloid. The typical radiologic finding is a small bony avulsion visible on a lateral view of the wrist. Most studies indicate that this carpal bone has the second or third highest fracture rate after the navicular. Avulsion fractures respond well to 4 weeks of splinting and protection. Clinical and radiologic signs do not match those expected in navicular or scaphoid fractures. Navicular fractures may initially

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
C) Lunate fracture D) Lunate dislocation E) Wrist sprain	have normal radiologic findings. Immobilization and follow-up radiographs are required. Tenderness in the snuffbox area is expected, but dorsal tenderness and swelling are not characteristic. The radiographs do not show a lunate fracture or dislocation. A wrist sprain is a diagnosis of exclusion and should not be considered too early.
<ul> <li>10-031. +Mus+Cel.&gt;L* A 72-year-old male has had persistent interscapular pain with movement since rebuilding his deck 1 week ago. He rates the pain as 6 on a 10-point scale. A chest radiograph shows a thoracic vertebral compression fracture. Which one of the following would be most appropriate at this point?</li> <li>A) Complete bed rest for 2 weeks</li> <li>B) Markedly decreased activity until the pain lessens, and follow-up in 1 week</li> <li>C) Referral for vertebroplasty as soon as possible</li> <li>D) NSAIDs and referral for physical therapy</li> </ul>	Fracture, vertebra. <b>10-031.</b> Thoracic vertebral compression. <b>ANS=B.</b> This patient has suffered a thoracic vertebral compression fracture. Most can be managed conservatively with decreased activity until the pain is tolerable, possibly followed by some bracing. Vertebroplasty is an option when the pain is not improved in 2 weeks. Complete bed rest is unnecessary and could lead to complications. Physical therapy is not indicated, and NSAIDs should be used with caution.
<b>09-219.</b> +Res+Cca. A 5-month-old infant has had several episodes of wheezing, not clearly related to colds. The pregnancy and delivery were normal; the infant received phototherapy for 1 day for hyperbilirubinemia. He had an episode of otitis media 1 month ago. There is no chronic runny nose or strong family history of asthma. He spits up small amounts of formula several times a day, but otherwise appears well. His growth curve is normal. An examination is unremarkable except for mild wheezing. Which one of the following is the most likely diagnosis? A) Benign reactive airway disease of infancy B) Gastroesophageal reflux C) Unresolved respiratory syncytial virus infection D) Early asthma E) Cystic fibrosis	Gastroesophageal reflux disease. <b>09-219.</b> Gastroesophageal reflux disease Gastroesophageal reflux is a common cause of wheezing in infants. <b>ANS=B.</b> At 5 months of age, most infants no longer spit up several times a day, and this is a major clue that this child's wheezing may be from the reflux. In addition, there is no family history of asthma and the wheezing is not related to infections. Cystic fibrosis is more likely to present with recurrent infections and failure to thrive than with intermittent wheezing.
<ul> <li>10-095. +Gas+Adm.&gt;L* A 43-year-old female presents to your office for evaluation of a chronic cough that has been present for the past 6 months. She is not a smoker, and is not aware of any exposure to environmental irritants. She does not have any systemic complaints such as fever or weight loss, and does not have any symptoms of heartburn or regurgitation. She is not on any regular medications. Auscultation of the lungs and a chest radiograph show no evidence of acute disease. A trial of an inhaled bronchodilator and antihistamine therapy does not improve the patient's symptoms.</li> <li>Which one of the following would be the most appropriate next step?</li> <li>A) A methacholine inhalation challenge test</li> <li>B) Pulmonary function testing</li> <li>C) CT of the chest</li> <li>D) A trial of a proton pump inhibitor</li> <li>E) 24-hour pH monitoring</li> </ul>	Gastroesophageal reflux disease. <b>10-095.</b> (GERD) is one of the most common causes of chronic cough. <b>ANS=D.</b> Patients with chronic cough have a high likelihood of having GERD, even in the absence of gastrointestinal symptoms (level of evidence 3). In fact, up to 75% of patients with a cough caused by GERD may have no gastrointestinal symptoms. The cough is thought to be triggered by microaspiration of acidic gastric contents into the larynx and upper bronchial tree. The American College of Chest Physicians states that patients with a chronic cough should be given a trial of antisecretory therapy (SOR B). Aggressive acid reduction using a proton pump inhibitor twice daily before meals for 3–4 months is the best way to demonstrate a causal relationship between GERD and extra-esophageal symptoms (SOR B). Methacholine inhalation testing is not necessary in this patient, since symptomatic asthma has been ruled out by the lack of response to bronchodilator therapy. Chest CT and pulmonary function tests are not indicated given the lack of findings from the history, physical examination, and chest film to suggest underlying pulmonary disease. An initial therapeutic trial of proton pump inhibitors is favored over 24-hour pH monitoring because it is less uncomfortable to the patient and has a better clinical correlation.
<b>09-223.</b> +Gas+Adm. A 60-year-old white female with type 1 diabetes mellitus presents with early satiety, nausea, bloating, and postprandial fullness. Laboratory tests are normal, as are upper endoscopy and biliary ultrasonography. Which one of the following would help confirm the most likely diagnosis? A) Pelvic Ultrasonography B) An exercise stress test C) Psychiatric consultation D) Gastric emptying scintigraphy E) Colonoscopy	Gastroparesis. ANS=D. This patient has typical findings of gastroparesis, an autonomic neuropathy more commonly seen in type 1 diabetics and in women. The initial evaluation should include a patient history and examination, a CBC to rule out infection, a metabolic panel, endoscopy, and a biliary tract evaluation, but the diagnosis is best confirmed by scintigraphy. Pelvic ultrasonography and colonoscopy are not indicated because the patient's symptoms are upper intestinal. Cardiac evaluation and psychiatric consultation are not warranted with these symptoms.
<b>07-104.</b> +Psy+Adm. A 26-year-old female consults you because she becomes quite anxious in many social situations, often panicking when she must lead discussions at work. She states that she is increasingly uncomfortable in social situations and is spending more time alone at home. She has asthma and notes that her symptoms increased when she used albuterol. Which one of the following would be the most appropriate therapy? A) Sertraline (Zoloft) B) Bupropion (Wellbutrin) C) Alprazolam (Xanax) D) Hydroxyzine (Vistaril) E) Propranolol	Generalized anxiety disorder. 07-104. ANS=A. SSRIs, SNRIs, and other pharmacologic therapies are useful in generalized social anxiety disorders, and often require higher doses to be effective. This patient meets the criteria for a performance-type social anxiety disorder with significant impairment, and an SSRI such as sertraline is indicated. <b>Buproprion is an antidepressant that is not</b> <u>useful in managing anxiety disorders</u> . A benzodiazepine or a B-blocker could be used for mild, intermittent performance anxiety, but would not be appropriate

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
(Inderal)	in this situation. B-blockers might also worsen her asthma. Hydroxyzine is an antihistamine with sedating properties that is not useful for treating anxiety disorders of this type.
<b>08-180.</b> +Psy+Adm. A generally healthy 35-year-old female has mild generalized anxiety, but is not depressed. She does not want to take a prescription medication, and asks if an herbal or dietary supplement might be helpful. Which one of the	Generalized anxiety disorder. <b>08-180.</b> Generalized anxiety; Kava. The use of herbal and nutritional supplements has become commonplace in the United States. <b>ANS=D.</b> Unfortunately, there is insufficient research for most herbal remedies, in
following botanical medications has the best clinical evidence of potential benefit for anxiety disorders when used for a short time (up to 24 weeks)?	terms of both efficacy and safety. However, there is a significant body of evidence from randomized, controlled trials and various meta-analyses showing benefit
<ul><li>A) St. John's wort</li><li>B) Valerian</li><li>C) Passionflower</li></ul>	from the use of kava in the short-term treatment of anxiety disorders (up to 24 weeks), including generalized anxiety disorder (SOR A). The other remedies listed have only single studies or anecdotal evidence attesting to benefit for
D) Kava E) Chamomile	patients with anxiety. At best, information about them is limited, and there are often conflicting results. Safety concerns about kava have been addressed by recent randomized, controlled trials demonstrating that kava has a safety profile similar to those of FDA-approved treatments for anxiety disorders. Care should be taken with any concurrent use of kava and medications metabolized by the liver, and patients should be discouraged from using alcohol while taking kava. Physicians should be aware of all remedies their patients are taking, even if they
10.122 Dev Mis Which are falle following interesting the development of	are not prescribed. In addition, it is important to be aware of remedies that have evidence supporting their use.
<ul><li>10-122. +Psy+Mhe. Which one of the following is true regarding the treatment of generalized anxiety disorder?</li><li>A) Cognitive-behavioral therapy has been shown to be at least as effective as pharmacologic therapy</li><li>B) Buspirone (BuSpar) is as effective as SSRI therapy for patients with comorbid depression</li></ul>	Generalized anxiety disorder. <b>10-122. ANS=A.</b> Cognitive-behavioral therapy has been shown to be at least as effective as medication for treatment of generalized anxiety disorder (GAD), but with less attrition and more durable effects. Many SSRIs and SNRIs have proven effective for GAD in clinical trials, but only paroxetine, escitalopram, duloxetine, and venlafaxine are approved by the FDA for this indication. Benzodiazepines have been widely used because of their rapid
<ul> <li>C) Benzodiazepines are no more effective than placebo</li> <li>D) Duloxetine (Cymbalta) is no more effective than placebo</li> <li>E) Escitalopram (Lexapro) is no more effective than placebo</li> </ul>	onset of action and proven effectiveness in managing GAD symptoms. SSRI or SNRI therapy is more beneficial than benzodiazepine or buspirone therapy for patients with GAD and comorbid depression.
<b>09-057.</b> +Non+Adm. You are asked to see a mentally challenged 45-year-old male from a nearby group home who has groin pain. On examination you notice	Genetic disorders, mentally challenged. ANS=E. Fragile X syndrome accounts for more cases of mental retardation in males than any other genetic disorder
that he has large ears, a prominent jaw, and large symmetric testicles. These findings are consistent with A) a variant form of Down syndrome B) Asperger's syndrome C) Klinefelter's syndrome D) homocystinuria E) fragile X syndrome	except Down syndrome; about one in 4000–6000 males is affected. Down syndrome, Klinefelter's syndrome, and homocystinuria do not present with the described findings. Asperger's syndrome is a variant of autism in people of normal to high intelligence. Patients with Klinefelter's syndrome usually have small testicles.
<b>08-135.</b> +Ref+Mac. Which one of the following fetal ultrasound measurements gives the most accurate estimate of gestational age in the first trimester (up to 14 weeks)? A) Femur length	Gestational age. <b>08-135.</b> Gestational age in the first trimester. Because the growth pattern of the fetus varies throughout pregnancy, the accuracy of measurements and their usefulness in determining gestational age and growth vary with each trimester. <b>ANS=D.</b> <u>Crown-rump length is the distance from the top of the</u>
B) Biparietal diameter C) Abdominal circumference D) Crown-rump length E) Scapulo-sacral length	head to the bottom of the fetal spine. It is most accurate as a measure of gestational age at 7–14 weeks. After that, other measurements are more reliable. In the second trimester, biparietal diameter and femur length are used. During the third trimester, biparietal diameter, abdominal circumference,
<b>09-191.</b> +Ref+ Mac. Which one of the following sonographic measurements is	and femur length are best for estimating gestational age. Gestational age. 09-191. ANS=B. Estimation of gestational age by ultrasound is
most accurate for estimating gestational age? A) Amniotic sac size at 5 weeks of pregnancy B) Crown-rump length at 10 weeks of pregnancy C) Femur length at 16 weeks of pregnancy D) Biparietal diameter at 20 weeks of pregnancy E) Abdominal circumference at 24 weeks of pregnancy	most accurate early in the first trimester and begins to decline by 22 weeks gestation. Crown-rump length is typically used to estimate gestational age before 13 weeks gestation. After 11 weeks gestation, combinations of biparietal diameter, femur length, head circumference, and abdominal circumference are used to estimate the gestational age. These factors are used by the software that generates ultrasonography reports.
<b>08-025.</b> +Hem+Adm. An asymptomatic 40-year-old male presents for a routine examination and is found to have a total bilirubin level of 1.8 mg/dL (N $\leq$ 1.0) and an indirect bilirubin level of 1.3 mg/dL. He drinks 3–6 beers/week. An examination and laboratory tests, including a CBC and serum liver enzymes, are within a correct limit.	Gilbert syndrome. <b>08-025.</b> Gilbert syndrome is an autosomal dominant disease characterized by indirect hyperbilirubinemia caused by impaired glucuronyl transferase activity. <b>ANS=C.</b> The workup includes studies to exclude hemolysis (CBC, reticulocyte count, and haptoglobin) and liver disease (AST, ALT, alkaline phosphatase, and prothrombin time). Alcoholic liver disease is associated with a
<ul> <li>within normal limits.</li> <li>Which one of the following is true regarding the diagnosis?</li> <li>A) The most likely diagnosis is alcoholic liver disease</li> <li>B) The most likely diagnosis is Dubin-Johnson syndrome</li> <li>C) The most likely diagnosis is Gilbert syndrome</li> <li>D) Ultrasonography of the liver and gallbladder are necessary to make a diagnosis</li> </ul>	greater elevation of AST than of ALT. Dubin-Johhnson syndrome is a benign liver disease distinguished by direct or conjugated hyperbilirubinemia. Imaging studies are not required to confirm Gilbert syndrome; such studies are more useful for conditions involving conjugated hyperbilirubinemia. Other causes of indirect hyperbilirubinemia include hematoma, infection, cardiac disease, rhabdomyolysis, living at high altitude, thyrotoxicosis, and some medications.
<ul><li>08-007. +Rem+Adm. Which one of the following is appropriate and effective treatment for genitourinary gonorrhea in a 20-year-old male with a purulent urethral discharge?</li><li>A) Amoxicillin, 3.5 g orally once</li></ul>	Gonorrhea/Chlamydia. <b>08-007. ANS=C.</b> Not only has the incidence of gonorrhea increased since 2002, but the rate of quinolone-resistant infection has also increased. Ceftriaxone is therefore the currently recommended treatment, and amoxicillin, ciprofloxacin, and erythromycin are no longer recommended because
<ul> <li>B) Ciprofloxacin (Cipro), 500 mg orally once</li> <li>C) Ceftriaxone (Rocephin), 125 mg intramuscularly once</li> <li>D) Doxycycline, 100 mg 2 times daily for 3 days</li> <li>E) Erythromycin, 500 mg 4 times daily for 7 days</li> </ul>	of resistance to these drugs. Doxycycline can be used but should be continued for 7 days.
<b>10-146.</b> +Ref+Mac. A 27-year-old white female at 12 weeks gestation comes to your office complaining of a vaginal discharge. On speculum examination you note a purulent cervical discharge with a friable cervix. A gonorrhea culture is negative. You make a diagnosis of <i>Chlamydia trachomatis</i> cervicitis. Which one	Gonorrhea/Chlamydia. 10-146. Chlamydia trachomatis infections in pregnant patients. ANS=C. Azithromycin is the drug of choice for Chlamydia trachomatis infections in pregnant patients. Metronidazole is used to treat trichomoniasis and Gardnerella vaginitis after 12 weeks gestation. The use of tetracycline is not
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 64 of 170 receive."	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
of the following is the appropriate treatment? A) Metronidazole (Flagyl)	appropriate in pregnant women, and miconazole is used to treat vaginal candidiasis.
B) Tetracycline	
C) Azithromycin (Zithromax) D) Miconazole (Monistat) cream	
<ul> <li>09-102. +Pbc+Com. In which one of the following scenarios is a physician most likely to be protected by a Good Samaritan statute?</li> <li>A) Assisting flight attendants with the care of a fellow passenger who develops respiratory distress while in flight over the United States</li> <li>B) Attending to an unconscious player while acting as an unpaid volunteer physician at a high-school football game</li> <li>C) Attending to a bicyclist with heat exhaustion while volunteering at a first-aid station during a fund-raising ride</li> <li>D) Attending to the family member of a patient who slips and falls in the waiting room at the physician's office</li> <li>E) Attending to a nurse's aide who collapses while the physician is staffing the</li> </ul>	Good Samaritan law. <b>09-102.</b> ANS=A. Generally, Good Samaritan laws apply to situations in which the physician does not have a preexisting duty to provide care to the patient. A physician who volunteers as a standby health care provider at an event assumes a duty to care for illness or injury in the participants. Likewise, physicians have a duty to provide emergency care to a person in need within a facility where they are working, such as a medical office or an emergency department. On an airplane, there is no preexisting duty for a physician to attend to a fellow passenger who becomes ill. In addition, a specific federal law, the Aviation Medical Assistance Act, ensures that physicians have Good Samaritan protection if they provide medical assistance while in flight over the United States.
<ul> <li>hospital emergency department</li> <li>10-204. +Pbc+Com. Which one of the following situations is most likely to result in immunity from court-awarded damages for personal injuries occurring as a result of reasonable and ordinary emergency care?</li> <li>A) Evaluating a football injury as a volunteer team physician at a local high-school game</li> <li>B) Stabilizing an injured victim at the scene of an automobile accident until EMS arrives</li> <li>C) Providing emergency care to your office nurse after he collapses while on the job</li> <li>D) Responding to the collapse of one of your patients in the hospital parking lot</li> <li>E) Treating an asthma attack while staffing the first-aid shelter at an outdoor rock concert</li> </ul>	Good Samaritan law. <b>10-204. ANS=B.</b> Laws providing immunity from civil damages for injuries or death resulting from care deemed reasonable under the circumstance (ordinary negligence) are generally described as Good Samaritan laws. Good Samaritan statutes have been enacted in some form in all 50 states, the District of Columbia, and Puerto Rico to protect physicians from liability (in the absence of gross negligence) if they provide emergency care to individuals with whom they share no preexisting obligation to provide medical care. In most states such protection is limited to emergency care provided outside of the hospital setting, although a few states offer protection for hospital care in certain circumstances. While there is no legal obligation to provide Good Samaritan care in most states, in some states (e.g., Louisiana, Minnesota, and Vermont) not doing so is a violation of "duty to assist" laws. A preexisting obligation to provide care exists in each of the examples given, except for the provision of care at the scene of a traffic accident. Providing stabilizing care at the scene of an accident clearly fits within the protections defined by Good Samaritan laws. The obligation to provide care for someone identified as your patient exists even outside of the office setting; a similar responsibility to provide for similar Good Samaritan protection from liability to physicians who respond to in-flight emergencies originating in the United States. Protection is also offered by statute in the U.K., Canada, and other countries; Australian law also includes a legal obligation to provide emergency care.
<b>07-114.</b> +Mus+Adm. A 72-year-old patient has an acute onset of joint pain and swelling. Aspiration reveals monosodium urate crystals. Compared with younger patients, geriatric patients presenting for the first time with this condition are more likely to A) be male B) have a monoarticular presentation C) have involvement of joints of the upper extremity D) have podagra (first metatarsophalangeal joint involvement) E) be free of tophi	Gout. 07-114. ANS=C. The presentation of <u>gout in the elderly</u> is often different from the classic presentation. It <u>occurs more often in women, has a</u> <u>polyarticular onset, and often involves small joints of the hands</u> . Older <u>patients also tend to develop tophi early</u> . Gout may appear in joints with Heberden's nodes from osteoarthritis. Podagra is the classic presentation of gout in the younger population.
<ul> <li>07-133. +Mus+Adm. A 62-year-old female presents to the emergency department complaining of right leg and knee pain. The pain has progressed over the past 2 weeks so that now she is unable to bear weight on her right leg. She has a history of a recent pulmonary embolus and is on warfarin (Coumadin). Her INR is therapeutic. On examination she is afebrile. Her pulse rate is 102 beats/min, her blood pressure is 158/96 mm Hg, and her respiratory rate is 14/min. Her right knee is erythematous, warm, and tender on palpation over the entire knee joint, and a large effusion is noted. Arthrocentesis reveals numerous WBCs and crystals that are birefringent on polarizing microscopy. What is the best initial treatment for the patient's knee problem?</li> <li>A) Ceftriaxone (Rocephin) intravenously, 1.0 g every 24 hr</li> <li>B) Prednisone orally, 10 mg/day</li> <li>C) Colchicine, 0.6 mg every 1–2 hr, up to 4.8 mg total</li> <li>D) Indomethacin (Indocin) orally, 50 mg every 8 hr</li> <li>E) Allopurinol (Zyloprim) orally, 100 mg/day</li> </ul>	Gout. 07-133. Attack. ANS=C. This patient is having an acute gout attack. While indomethacin is a good choice for treating an acute gout attack, this patient should not take indomethacin because of the increased risk of bleeding created by warfarin. Colchicine would be the best agent in this case. The dosage is titrated up until symptoms are relieved, side effects occur, or the maximum dose of 4.8 mg in 24 hours is reached. There is no evidence that corticosteroids are an effective treatment for acute gout. Allopurinol should not be used in an acute gout attack. Ceftriaxone is not an appropriate treatment for gout.
<ul> <li>08-203. +Mus+Adm. A 60-year-old male presents with an acute onset of pain and swelling in the right big toe. He can recall no mechanism of injury. He has hypertension which is well controlled with hydrochlorothiazide. On examination the area around the toe is slightly warm. Which one of the following should be AVOIDED in this patient at this time?</li> <li>A) Allopurinol (Zyloprim)</li> <li>B) Colchicine</li> <li>C) NSAIDs</li> <li>D) Prednisone</li> <li>E) Aspiration of the joint</li> </ul>	Gout. <b>08-203.</b> This patient likely has gout. Aspiration should be attempted to get a specific diagnosis. <b>ANS=A.</b> The initial treatment for gout is NSAIDs, colchicine, or cortisone injections (SOR B). Allopurinol should be avoided until the episode of gout is controlled, because it may precipitate worsening. In addition to medication, recommended management includes addressing risk factors such as obesity, diuretic use, high-purine diet, and alcohol intake (SOR B).
<b>09-110.</b> +Mus+Adm. A 54-year-old male comes to your office with a 2-day history of swelling, erythema, and pain in his right first metatarsophalangeal joint.	Gout. <b>09-110. ANS=A.</b> All of the treatments listed are commonly used in the management of gout with good success. <b>Allopurinol</b> decreases the production of
This is the third time this year he has had this problem. He has treated previous	uric acid and is effective in reducing the frequency of acute gouty flare-ups.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 65 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
episodes with over-the-counter pain medicines, ice packs, and elevation. Your evaluation suggests gout as the diagnosis. Which one of the following treatments for gout is most likely to worsen his current symptoms? A) Allopurinol (Zyloprim) B) Colchicine C) Elastic compression bandages D) Indomethacin E) Prednisone	However, it should not be started during an acute attack since fluctuating levels of uric acid can actually worsen inflammation and intensify the patient's pain and swelling. Colchicine inhibits white blood cells from enveloping urate crystals and is effective during acute attacks, as are NSAIDs such as indomethacin. Corticosteroids such as prednisone are also considered a first- line treatment for acute attacks. Compression as an adjunctive therapy may help control pain and swelling.
<ul> <li>10-119. +Mus+Adm. In a patient with hyperuricemia who has experienced an attack of gout, which one of the following is LEAST likely to precipitate another gout attack?</li> <li>A) Red meat</li> <li>B) Milk</li> <li>C) Seafood</li> <li>D) Nuts</li> <li>E) Beans</li> </ul>	Gout. <b>10-119. ANS=B.</b> Reducing consumption of red meat, seafood, and alcohol may help reduce the risk of a gout attack. Dairy products, in contrast to other foods high in protein, decrease the risk of another attack. Nuts and beans are high in purines and will worsen gout.
<ul> <li>08-046. +Pbc+Cca. A white male adolescent is concerned because he is the shortest boy in his class. His age is 14.3 years and his parents are of normal height. He has a negative past medical history and no symptoms. On physical examination you note that he is 151 cm (59 in) tall. The average height for his age is 165 cm. His weight is 43 kg (95 lb). His sexual maturity rating is 3 for genitalia and 2 for pubic hair. A wrist radiograph shows a bone age of 12.2 years (the average height is 152 cm for this bone age). On the basis of this evaluation you can tell the patient and his parents that</li> <li>A) he should have a growth hormone stimulation test</li> <li>B) his adult height will be below average</li> <li>C) his sexual development is about average for his age</li> <li>D) he will begin to grow taller within a year or so</li> <li>E) an underlying nutritional deficiency may be the cause of his short stature</li> </ul>	Growth and development. <b>08-046.</b> Growth delay, constitutional. <b>ANS=D.</b> Constitutional growth delay, defined as delayed but eventually normal growth in an adolescent, is usually genetic. If evaluation of the short adolescent male reveals no evidence of chronic disease, if his sexual maturity rating is 2 or 3, and if his height is appropriate for skeletal age he can be told without endocrinologic testing that he will begin to grow taller within a year or so. Adult height may be below average, but cannot be predicted reliably. Average sexual maturity ratings for a male of 14.3 years are 4 for genitalia and 3 to 4 for pubic hair. The history and physical examination would have given clues to any illnesses or nutritional problems.
<b>09-089.</b> +Non+Cca. In assessing the nutritional status of an infant it is useful to know that birth weight is expected to be regained within A) 5 days B) 14 days C) 21 days D) 28 days	Growth and development. 09-089. ANS=B. A helpful guideline for assessing normal growth in the very young infant is that birth weight should be regained within 14 days.
<ul> <li>09-148. +Non+Cca. A 16-year-old male accompanied by his mother presents to your outpatient clinic with concerns about his short stature and "boyish" looks. He is a sophomore in high school but is frequently mistaken for someone much younger. Radiographs reveal a bone age of 14.7 years. Which one of the following would suggest the need for further evaluation?</li> <li>A) A family history of delayed growth</li> <li>B) Height below the fifth percentile for age</li> <li>C) Weight below the fifth percentile for age</li> <li>D) Prepubescent testicular size</li> </ul>	Growth and development. <b>09-148.</b> Growth delay; constitutional growth delay. <b>ANS=D.</b> Most cases of short stature are due to constitutional growth delay, a term which implies that the child is normal but delayed in his development. A hallmark of this condition is being below the fifth percentile for height for most of childhood. Usually these children are thin and have a family history of delayed development. Bone age would be expected to be at least 2.5 standard deviations below the mean for agematched peers of the same chronologic age. However, most experts agree that if no signs of puberty are seen by 14 years of age (no breast development in girls, no testicular enlargement in boys), then further workup for a more serious condition should be sought. Other indications for evaluation would be no menarche in a girl by 16 years of age and underdeveloped genitalia in a boy 5 years after his first pubertal changes.
<ul> <li>10-020. +Non+Cca. &gt;L?* A 5-year-old female is seen for a kindergarten physical and is noted to be below the 3<sup>rd</sup> percentile for height. A review of her chart shows that her height curve has progressively fallen further below the 3rd percentile over the past year. She was previously at the 50th percentile for height. The physical examination is otherwise normal, but your workup shows that her bone age is delayed. Of the following conditions, which one is the most likely cause of her short stature?</li> <li>A) Constitutional growth delay</li> <li>B) Growth hormone deficiency</li> <li>C) Genetic short stature</li> <li>D) Turner syndrome</li> <li>E) Skeletal dysplasia</li> </ul>	Growth and development. <b>10-020.</b> Growth delay; Growth hormone deficiency. <b>ANS=B.</b> This patient has delayed bone age coupled with a reduced growth velocity, which suggests an underlying systemic cause. Growth hormone deficiency is one possible cause for this. Although bone age can be delayed with constitutional growth delay, after 24 months of age growth curves are parallel to the 3 <sup>rd</sup> percentile. Bone age would be normal with genetic short stature. Patients with Turner syndrome or skeletal dysplasia have dysmorphic features, and bone age would be normal.
<ul> <li>B) Skeletal dysplasta</li> <li>09-082. +Int+Adm. A 47-year-old female presents to your office with a complaint of hair loss. On examination she has a localized 2-cm round area of complete hair loss on the top of her scalp. Further studies do not reveal an underlying metabolic or infectious disorder. Which one of the following is the most appropriate initial treatment?</li> <li>A) Topical minoxidil (Rogaine)</li> <li>B) Topical immunotherapy</li> <li>C) Intralesional triamcinolone (Kenalog)</li> <li>D) Oral finasteride (Proscar)</li> <li>E) Oral spironolactone (Aldactone)</li> </ul> 10-230. +Int+Adm.? A 24-year-old female has noted excessive hair loss over the	Hair loss. <b>09-082.</b> Alopecia areata. <b>ANS=C.</b> These findings are consistent with alopecia areata, which is thought to be caused by a localized autoimmune reaction to hair follicles. It occasionally spreads to involve the entire scalp (alopecia totalis) or the entire body (alopecia universalis). Spontaneous recovery usually occurs within 6–12 months, although areas of regrowth may be pigmented differently. Recovery is less likely if the condition persists for longer than a year, worsens, or begins before puberty. The initial treatment of choice for patients older than 10 years of age, in cases where alopecia areata affects less than 50% of the scalp, is intralesional corticosteroid injections. Minoxidil is an alternative for children younger than 10 years of age or for patients in whom alopecia areata affects more than 50% of the scalp. While topical immunotherapy is the most effective treatment for chronic severe alopecia areata, it has the potential for severe side effects and should not be used as a first-line agent. Finasteride inhibits 5a-reductase type 2, resulting in a decrease in dihydrotestosterone levels, and is used in the treatment of androgenic alopecia (male-pattern baldness). Similarly, spironolactone is sometimes used for androgenic effects. Hair loss. 10-230. Telogen effluvium. ANS=A. The recycling of scalp hair is an
past 2 months, with a marked increase in hairs removed when she brushes her Copyrighted Material. ITE Personal Notes. Not for Sale. Page 66 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
hair. She delivered a healthy baby 5 months ago. She is on no medications, and is otherwise healthy. Examination of her scalp reveals diffuse hair thinning without scarring. An evaluation for thyroid dysfunction and iron deficiency is negative. Which one of the following is the most likely cause of her hair loss? A) Telogen effluvium B) Anagen effluvium C) Alopecia areata D) Female-pattern hair loss E) Discoid lupus erythematosus	growing anagen-phase hairs give way to the catagen phase, during which the follicle shuts down, followed by the resting telogen phase, during which the hair is shed. The normal ratio of anagen to telogen hairs is 90:10. This patient most likely has a telogen effluvium, a nonscarring, shedding hair loss that occurs when a stressful event, such as a severe illness, surgery, or pregnancy, triggers the shift of large numbers of anagen-phase hairs to the telogen phase. Telogen-phase hairs are easily shed. Telogen effluvium occurs about 3 months after a triggering event. The hair loss with telogen effluvium lasts 6 months after the removal of the stressful trigger. Anagen effluvium is the diffuse hair loss that occurs when chemotherapeutic medications cause rapid destruction of anagen-phase hair. Alopecia areata, which causes round patches of hair loss, is felt to have an autoimmune etiology. Female-pattern hair loss affects the central portion of the scalp, and is not associated with an inciting trigger or shedding. Discoid lupus erythematosus causes a scarring alopecia.
<ul> <li>10-112. +Res+Com.&gt;L Hantavirus pulmonary syndrome results from exposure to the excreta of</li> <li>A) migratory fowl</li> <li>B) bats</li> <li>C) parrots</li> <li>D) mice</li> <li>E) turtles</li> </ul>	Hantavirus. <b>10-112.</b> Hantavirus pulmonary syndrome results from exposure to rodent droppings, mainly the deer mouse in the southwestern U.S. <b>ANS=D.</b> About 10% of deer mice are estimated to be infected with hantavirus. In other parts of the country the virus is carried by the white-footed mouse. While other rodents are carriers of the virus, they are less likely to live near dwellings, and populations are less dense.
<ul> <li>10-181. +Int+Cca.&gt;L?* Which one of the following is NOT considered a first-line treatment for head lice?</li> <li>A) Lindane 1%</li> <li>B) Malathion 0.5% (Ovide)</li> <li>C) Permethrin 1% (Nix)</li> <li>D) Pyrethrins 0.33%/pipernyl butoxide 4% (RID)</li> </ul>	Head lice treatment. <b>10-181. ANS=A.</b> Lindane's efficacy has waned over the years and it is inconsistently ovicidal. Because of its neurotoxicity, lindane carries a black box warning and is specifically recommended only as second-line treatment by the FDA. <u>Pyrethroid resistance is widespread, but permethrin is still considered to be a first-line treatment because of its favorable safety profile.</u> The efficacy of malathion is attributed to its triple action with isopropyl alcohol and terpineol, likely making this a resistance-breaking formulation. The probability of simultaneously developing resistance to all three substances is small. Malathion is both ovicidal and pediculicidal.
<b>07-067.</b> +Neu+Adm. A 35-year-old male who works as an EMT has recently developed deep, severe, continuous headaches behind his left eye. The headaches occur daily around 10:00 a.m. and last 1–2 hours. He notes that the headaches bother him less when he remains active. When the headaches occur he also has tearing from the left eye and a nasal discharge from the left naris. He has found that using oxygen gives him relief. A physical examination reveals no significant findings. Which one of the following would be most appropriate at this time? A) MRI B) Carbamazepine (Tegretol) C) Neurologic consultation D) Avoiding triptan medications such as sumatriptan (Imitrex) E) Daily therapy with verapamil (Isoptin)	Headache. 07-067. Cluster headaches are repetitive headaches that occur for weeks or months at a time. ANS=E. They are more common in men between the ages of 30 and 50. The headaches begin without warning and reach a crescendo within minutes. Most times the headaches are located behind the eye or at the temple, and are associated with ipsilateral lacrimation, redness of the eye, nasal stuffiness, sweating, pallor, and Horner's syndrome. Patients note that they are sensitive to alcohol. They often prefer to remain active rather than rest in a dark, quiet room as someone with a migraine would likely do. A typical attack will last from 30 minutes to 3 hours. It is common for the pain to recur each day at the same time. These attacks occur 1–3 times a day over a 4- to 8-week period. The patient will often remain pain-free for 6 months to a year. A cluster headache can be distinguished from a migraine, a tension-type headache, and a brain tumor by its presentation. Headaches associated with a brain tumor are offen accompanied by nausea, vomiting, and worsening of the pain (which is usually bifrontal) with change in body position. There are usually positive findings on neurologic examination, as well as a change from the previous headache pattern. Migraines are more common in women and may be associated with a naura. They are throbbing in nature and accompanied by nausea, photophobia, and phonophobia. These patients are usually much more comfortable in the dark. Both cluster and migraine headaches will respond to abortive therapy with triptan medications. Prophylaxis for migraine is normally begun if there are four or more attacks within a month. In contrast, once the diagnosis of cluster headache is made, it is important to initiate both abortive and prophylactic therapy right away. Abortive therapy can be with 100% oxygen, triptans, octreotide, or dihydroergotamine. A number of prophylactic medications are available, including verapamil, lithium, prednisone (short-term use only), ergotamine, cyproheptadine, and ind
<ul> <li>08-130. +Neu+Adm. A 35-year-old white female complains of unilateral frontotemporal headaches. During these episodes, which occur every 2–3 weeks, she becomes nauseated, sometimes to the point of vomiting. The headaches are throbbing in character and last for 1–3 hours, often causing her to leave work early. Relief is sometimes obtained with simple analgesics, but more often with sleep or the passage of time. On the basis of this history alone, the most likely diagnosis is</li> <li>A) sinusitis</li> <li>B) a brain tumor</li> <li>C) muscle tension headache</li> <li>D) cluster headache</li> <li>E) migraine headache</li> <li>09-101. +Neu+Adm. A 45-year-old male presents with a complaint of recent headaches. He has had four headaches this week, and his description indicates that they are moderate to severe, bilateral, frontal, and nonthrobbing. There is no associated aura. He has had similar episodes of recurring headaches in the past. Based on this limited history, which one of the following headache types can be</li> </ul>	Headache. <b>08-130.</b> Migraine. Migraine is the most likely diagnosis in this scenario, because the patient is young and female; the headaches are unilateral, infrequent, and throbbing; the headaches are associated with nausea and vomiting; and sleep offers relief. <b>ANS=E.</b> Symptoms of sinusitis usually include fever, facial pain, and a purulent nasal discharge. The pain of cerebral tumor tends to occur daily and becomes more frequent and severe with time. Furthermore, the prevalence of brain tumor is far less than that of migraine. The pain of muscle tension headache is described as a pressure or band-like tightening, often in a circumferential or cap distribution. This headache also has a pattern of daily persistence, often continuing day and night for long periods of time. Cluster headache is more common in males, and presents as a constant, agonizing orbital pain, usually beginning within 2 or 3 hours after falling asleep. Headache. <b>09-101.</b> Types. <b>ANS=D.</b> Cluster headache can be removed from the differential because it is always unilateral, although the affected side can vary. The remainder of these headache types can be bilateral, frontal, and nonthrobbing. Brain tumor headaches may be similar in character to previous headaches, but are often more severe or frequent.
Convrighted Material ITE Personal Notes Not for Sale Page 67 of 170	Mario A Timenez M.D. BSEE "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
eliminated from the differential diagnosis? A) Tension-type headache B) Sinus headache C) Migraine headache D) Cluster headache E) Headache of intracranial neoplasm	
<b>09-228.</b> +Neu+Adm. Which one of the following is considered first-line therapy for migraine prophylaxis in adults? A) Gabapentin (Neurontin) B) Propranolol (Inderal) C) Fluoxetine (Prozac) D) Vitamin B2 (riboflavin) E) Naproxen (Naprosyn)	Headache. <b>09-228.</b> Migrane. <b>ANS=B.</b> Propranolol is a first-line therapy for migraine prophylaxis in adults (SOR A). In a review of 26 placebo controlled trials using data pooled from nine studies, the calculated responder ratio (comparable to relative risk) was 1.9 (95% confidence interval 1.6–2.35). Other first-line agents include timolol, amitriptyline, divalproex sodium, sodium valproate, and topiramate. Gabapentin, fluoxetine, vitamin B2, and naproxen are considered second-line therapies for migraine prophylaxis in adults (SOR B), and should be used when no first-line agent or combination is effective or tolerable.
<ul> <li>10-151. +Neu+Adm. A 40-year-old white male presents with a 5-year history of periodic episodes of severe right-sided headaches. During the most recent episode the headaches occurred most days during January and February and lasted about 1 hour. The most likely diagnosis is which one of the following?</li> <li>A) Migraine headache</li> <li>B) Cluster headache</li> <li>C) Temporal arteritis</li> <li>D) Trigeminal neuralgia</li> </ul>	Headache. <b>10-151.</b> Cluster. Cluster headache is predominantly a male disorder. <b>ANS=B.</b> The mean age of onset is 27–30 years. Attacks often occur in cycles and are unilateral. Migraine headaches are more common in women, start at an earlier age (second or third decade), and last longer (4–24 hours). Temporal arteritis occurs in patients above age 50. Trigeminal neuralgia usually occurs in paroxysms lasting 20–30 seconds.
<ul> <li>08-123. +Sen+Cca. Which one of the following is the most likely cause of hearing loss in newborns?</li> <li>A) Intraventricular hemorrhage</li> <li>B) Anomalies of the external ear canal</li> <li>C) Congenital cholesteatoma</li> <li>D) Genetic disorders</li> <li>E) Infectious diseases</li> </ul>	Hearing loss. <b>08-123.</b> In children. Genetic disorders (e.g., Waardenburg syndrome, Usher's syndrome, Alport syndrome, and Turner's syndrome) are responsible for more than 50% of hearing impairments in children. <b>ANS=D.</b> Intraventricular hemorrhage is a central cause of hearing loss, and is rare. Conductive abnormalities such as external canal anomalies and congenital cholesteatoma, and sensorineural causes other than genetic disorders (e.g., infectious diseases) are important but less frequent. <b>Epocrates:</b> Cholesteatoma is defined as the presence of keratinizing squamous epithelium within the middle ear, or in other pneumatized areas of the temporal bone. This keratinizing epithelium exhibits independent growth, leading to expansion and to resorption of underlying bone. [2] Focal erosion of external canal bone with accumulation of keratin is called external canal cholesteatoma. The definitive treatment of cholesteatoma is surgery.
<ul> <li>08-161. +Sen+Cca. A 3-year-old male was treated for acute otitis media last month. His mother brings him in for follow-up because she believes his hearing has not been normal since then. He attends day care and has had several upper respiratory infections. On examination the tympanic membranes are not inflamed, but the membrane is retracted on the right side. Tympanography produces a normal peak (type A) on the left side, but a flat tracing (type B) on the right side. Which one of the following would be the most appropriate recommendation?</li> <li>A) Audiometry</li> <li>B) Observation with follow-up</li> <li>C) An antihistamine/decongestant combination</li> <li>D) Intranasal corticosteroids</li> <li>E) Systemic corticosteroids</li> </ul>	Hearing loss. <b>08-161.</b> Serous Otitis. <b>ANS=B.</b> This patient has unilateral serous otitis and is unlikely to have delayed language from decreased hearing on one side. The patient should be observed for now. Hearing loss of longer than 3 months may indicate a need for tympanostomy tubes. Surgical treatment has been shown to be helpful, but should be reserved for patients with chronic problems. Audiometry is not needed to make a decision about surgery at this point, and the mother's judgment is likely correct about his current hearing loss, so a hearing test most likely would not add any useful information. Numerous studies have debunked all medical treatments for serous otitis, including antihistamine and decongestant therapy, and corticosteroids by any route.
<ul> <li>09-123. +Sen+Adm. A 47-year-old female presents with progressive difficulty hearing. She is employed as an office worker, has no significant past medical history, and takes no medications. Physical examination shows no gross abnormalities of her outer ears. The external ear canals are free of cerumen, and the tympanic membranes move well to insufflation. Weber's test and the Rinne test have results that are compatible with a conductive hearing loss. Which one of the following is the most likely cause of this patient's hearing loss? A) Noise-induced hearing loss B) Meniere's disease C) Otosclerosis D) Acoustic neuroma E) Perilymphatic fistula</li> <li>09-190. +Sen+Cel. Which one of the following historical or audiographic findings in an elderly person would indicate that hearing loss is due to something other than presbycusis? A) Conductive hearing loss B) Bilateral hearing loss C) Symmetric hearing loss D) Gradual hearing loss E) High-frequency hearing loss</li> </ul>	Hearing loss. <b>09-123.</b> Otosclerosis typically presents between the third and fifth decades, and is more common in women. <b>ANS=C.</b> The chief feature of otosclerosis is a progressive conductive hearing loss. Occasionally, when lesions impinge on the stapes footplate, a sensorineural loss may occur. All of the other choices are exclusively sensorineural in character. Meniere's disease also causes fluctuating hearing loss. Noise-induced hearing loss frequently and characteristically is accompanied by tinnitus. Perilymphatic fistula is associated with sudden unilateral hearing loss with tinnitus and vertigo. Acoustic neuroma is associated with tinnitus and gradual hearing loss associated with aging, is gradual in onset, bilateral, symmetric, and sensorineural. <b>ANS=A.</b>
<b>07-004.</b> +Car+Adm. A 56-year-old white male has New York Heart Association (NYHA) class III chronic heart failure. Despite conventional therapy with appropriate dosages of a diuretic, an ACE inhibitor, and a B-adrenergic blocker, his left ventricular ejection fraction hovers around 35%, and he continues to have dyspnea on exertion. At a recent office visit his electrolytes were within normal limits. After you obtain an EKG during an office visit today, you consider adding digoxin to his treatment regimen. Which one of the following is true regarding digoxin therapy in this situation? A) It is the treatment of choice if the patient's EKG shows atrioventricular block B) It is not likely to improve the ejection fraction C) A loading dose will be necessary D) Serial drug levels are generally not necessary E) A reasonable dosage is 0.50 mg/day orally	Heart failure. <b>07-004.</b> Chronic. Digoxin remains a useful drug in the management of chronic heart failure caused by systolic dysfunction. <b>ANS=D.</b> Randomized, controlled studies have convincingly confirmed its efficacy in improving ejection fraction and submaximal exercise capacity. Current consensus guidelines recommend its use for patients in whom NYHA class II–IV symptoms persist despite conventional therapy with diuretics, ACE inhibitors, and B-adrenergic blockers. Digoxin should not be administered to a patient who has an atrioventricular block, unless it is first treated with a permanent pacemaker. Loading doses of digoxin are not necessary during initiation of therapy for patients with chronic heart failure, and serial assessments of serum digoxin levels are not necessary in most patients. The radioimmunoassay was developed to assist in the evaluation of toxicity, rather than the efficacy of the drug. There appears to be little relationship between serum digoxin concentration and the drug's therapeutic effect. The dosage of digoxin should be 0.125–0.25 mg daily in the majority of patients. Higher doses (e.g., 0.375–0.50 mg) are rarely needed, especially as initial therapy for chronic heart failure. Heart failure. <b>07-135. BNP. ANS=E.</b> The serum brain natriuretic peptide (BNP)
ischemic heart disease presents with fatigue, dyspnea on exertion, and orthopnea. Copyrighted Material. ITE Personal Notes. Not for Sale. Page 68 of 170	test can accurately differentiate heart failure from noncardiac conditions in a Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>A clinical examination demonstrates pulmonary rales, tachycardia, a third heart sound, and mild pedal edema. A chest radiograph reveals cardiomegaly and pulmonary venous congestion, and a two-dimensional echocardiogram confirms heart failure. Which one of the following is true regarding the management of this patient?</li> <li>A) The serum brain natriuretic peptide (BNP) test can accurately differentiate diastolic from systolic heart failure</li> <li>B) Optimal treatment for systolic heart failure is necessary to treat diastolic heart failure</li> <li>C) Drugs that inhibit the production of angiotensin or block angiotensin II receptors are contraindicated</li> <li>D) Calcium channel blockers reduce mortality in patients with isolated diastolic dysfunction</li> <li>E) B-Blockers are indicated for treating diastolic dysfunction</li> </ul>	patient with dyspnea, but it cannot distinguish diastolic from systolic heart failure. Optimal treatment for systolic heart failure may exacerbate diastolic heart failure. ACE inhibitors and angiotensin receptor blockers (ARBs) directly affect myocardial relaxation and compliance by inhibiting production of angiotensin or by blocking angiotensin II receptors, thereby reducing interstitial collagen deposition and fibrosis. The indirect benefits of optimizing hemodynamics include improved left ventricular filling, reduced blood pressure, and improved exercise capacity and quality of life. Large randomized, controlled trials have not proved that calcium channel blockers reduce mortality in patients with isolated diastolic function. <b>B-Blockers</b> control heart rate and prevent tachycardia, thereby <b>maximizing diastolic filling in patients with diastolic dysfunction</b> . They also reduce blood pressure and myocardial ischemia, promote regression of left ventricular hypertrophy, and antagonize the excessive adrenergic stimulation that occurs with heart failure. B-Blockers also have been independently associated with improved survival in patients with diastolic heart failure.
<ul> <li>08-022. +Car+Adm. A 55-year-old male who has a long history of marginally-controlled hypertension presents with gradually increasing shortness of breath and reduced exercise tolerance. His physical examination is normal except for a blood pressure of 140/90 mm Hg, bilateral basilar rales, and trace pitting edema. Which one of the following ancillary studies would be the preferred diagnostic tool for evaluating this patient?</li> <li>A) 12-lead electrocardiography</li> <li>B) Posteroanterior and lateral chest radiographs</li> <li>C) 2-dimensional echocardiography with Doppler</li> <li>D) Radionuclide ventriculography</li> <li>E) Cardiac MRI</li> </ul>	Heart failure. <b>08-022.</b> The most useful diagnostic tool for evaluating patients with heart failure is two-dimensional echocardiography with Doppler to assess left ventricular ejection fraction (LVEF), left ventricular size, ventricular compliance, wall thickness, and valve function. The test should be performed during the initial evaluation. <b>ANS=C.</b> Radionuclide ventriculography can be used to assess LVEF and volumes, and MRI or CT also may provide information in selected patients. Chest radiography (posteroanterior and lateral) and 12-lead electrocardiography should be performed in all patients presenting with heart failure, but should not be used as the primary basis for determining which abnormalities are responsible for the heart failure.
<ul> <li>08-055. +Car+Cel. A 70-year-old male with a history of hypertension and type 2 diabetes mellitus presents with a 2-month history of increasing paroxysmal nocturnal dyspnea and shortness of breath with minimal exertion. An echocardiogram shows an ejection fraction of 25%. Which one of the patient's current medications should be discontinued?</li> <li>A) Lisinopril (Zestril)</li> <li>B) Pioglitazone (Actos)</li> <li>C) Glipizide (Glucotrol)</li> <li>D) Metoprolol (Toprol-XL)</li> <li>E) Repaglinide (Prandin)</li> </ul>	Heart failure. <b>08-055.</b> Thiazolidinediones (TZDs), e.g. rosiglitazone and pioglitazone. According to the American Diabetes Association guidelines, thiazolidinediones (TZDs) are associated with fluid retention, and their use can be complicated by the development of heart failure. ANS=B. Caution is necessary when prescribing TZDs in patients with known heart failure or other heart diseases, those with preexisting edema, and those on concurrent insulin therapy (SOR C). Older patients can be treated with the same drug regimens as younger patients, but special care is required when prescribing and monitoring drug therapy. Metformin is often contraindicated because of renal insufficiency or heart failure. Sulfonylureas and other insulin secretagogues can cause hypoglycemia. Insulin can also cause hypoglycemia, and injecting it requires good visual and motor skills and cognitive ability on the part of the patient or a caregiver. TZDs should not be used in patients with New York Heart Association class III or IV heart failure.
<ul> <li>08-083. +Car+Adm. A 55-year-old male has New York Heart Association Class II heart failure. He becomes dyspneic with significant exertion. His only medication is an ACE inhibitor. Which one of the following additional medications has been shown to improve longevity in this situation?</li> <li>A) Digitalis</li> <li>B) Warfarin (Coumadin)</li> <li>C) B-Blockers</li> <li>D) Amiodarone (Cordarone)</li> <li>E) Nondihydropyridine calcium channel blockers</li> </ul>	Heart failure. <b>08-083.</b> <u>B-Blockers are recommended to reduce mortality in</u> <u>symptomatic patients with heart failure</u> (SOR A). <b>ANS=C.</b> Because polypharmacy can reduce compliance, the role that digoxin will ultimately play in heart failure is unclear. The Digitalis Investigation Group study revealed a trend toward increased mortality among women with heart failure who were taking digoxin, but digoxin levels were higher among women than men. There is no evidence that warfarin decreases mortality in patients with heart failure. There is also no evidence that amiodarone decreases mortality from heart failure in patients with no history of atrial fibrillation. Calcium channel blockers should be used with caution in patients with heart failure because they can cause peripheral vasodilation, decreased heart rate, decreased cardiac contractility, and decreased cardiac conduction.
<ul> <li>08-139. +Car+Adm. A 72-year-old African-American male with New York Heart Association Class III heart failure sees you for follow-up. He has shortness of breath with minimal exertion. The patient is adherent to his medication regimen. His current medications include lisinopril (Prinivil, Zestril), 40 mg twice daily; carvedilol (Coreg), 25 mg twice daily; and furosemide (Lasix), 80 mg daily. His blood pressure is 100/60 mm Hg, and his pulse rate is 68 beats/min and regular. Findings include a few scattered bibasilar rales on examination of the lungs, an S3 gallop on examination of the heart, and no edema on examination of the legs. An EKG reveals a left bundle branch block, and echocardiography reveals an ejection fraction of 25%, but no other abnormalities. Which one of the following would be most appropriate at this time?</li> <li>A) Increase the lisinopril dosage to 50 mg twice daily</li> <li>B) Increase the furosemide dosage to 160 mg daily</li> <li>D) Refer for coronary angiography</li> <li>E) Refer for cardiac resynchronization therapy</li> </ul>	Heart failure. <b>08-139.</b> Cardiac resynchronization therapy (CRT). <b>ANS=E.</b> This patient is already receiving maximal medical therapy. The 2002 joint guidelines of the American College of Cardiology, the American Heart Association (AHA), and the North American Society of Pacing and Electrophysiology endorse the use of cardiac resynchronization therapy (CRT) in patients with medically refractory, symptomatic, New York Heart Association (NYHA) class III or IV disease with a QRS interval of at least 130 msec, a left ventricular end-diastolic diameter of at least 55 mm, and a left ventricular ejection fraction (LVEF) $\leq$ 30%. These guidelines were refined by an April 2005 AHA Science Advisory, which stated that "optimal candidates for CRT have a dilated cardiomyopathy on an ischemic or nonischemic basis, an LVEF $\leq$ 0.35, a QRS complex $\geq$ 120 msec, and sinus rhythm, and are NYHA functional class III or IV despite maximal medical therapy for heart failure."
<b>08-194.</b> +Car+Adm. A 60-year-old male with a right-sided pleural effusion undergoes thoracentesis. Analysis of the pleural fluid reveals a protein level of 2.0 g/dL and an LDH level of 70 U/L. His serum protein level is 7.0 g/dL (N 6.0–8.3) and his serum LDH level is 200 U/L (N 100–105). Based on these findings, which one of the following is the most likely diagnosis? A) Heart failure B) Pulmonary embolism C) Tuberculous pleurisy D) Malignancy E) Bacterial pneumonia	Heart failure. <b>08-194.</b> Pleural effusion. <b>ANS=A.</b> Pleural effusions may be exudates or transudates. The distinction is important for an accurate diagnosis and to help determine what further evaluations may be necessary. <b>Light's criteria use ratios of fluid/serum values for protein and LDH.</b> <u>Pleural fluid/serum ratios greater than 0.6 for LDH and 0.5 for protein are indicative of exudates</u> . In the scenario presented, both ratios are approximately 0.3; therefore, the fluid is a transudate. The list of causes for transudates is much shorter than for exudates.

ario's ITE database V2010.007 <u>ansudates:</u> any fluid (solvent and solute) that has passed through a presumably	Document copy for the sole personal use of Dr. Mario Alberto Jimen The vast majority of transudates are due to heart failure, with cirrhosis bei
rmal membrane, such as the capillary wall, as a result of imbalanced hydrostatic	the next most common cause. Once there is reasonable certainty that the fluid is
d osmotic forces; characteristically low in protein unless there has been	a transudate, additional studies usually are not necessary. The other conditions
condary concentration.	listed result in exudative pleural effusions.
<b>0-038.</b> +Car+Cel. A 72-year-old white female is admitted to the hospital with her	Heart Failure. 09-038. Diastolic dysfunction is now recognized as an important
st episode of acute heart failure. She has a history of hypertension treated with a	cause of heart failure. It is due to left ventricular hypertrophy as a response t
iazide diuretic. An echocardiogram reveals no evidence of valvular disease and	chronic systolic hypertension. The ventricle becomes stiff and unable to rela
segmental wall motion abnormalities. Left ventricular hypertrophy is	or fill adequately, thus limiting its forward output. The typical patient is an
escribed, and the ejection fraction is 55%. Her pulse rate is 72 beats/min. The	elderly person who has systolic hypertension, left ventricular hypertrophy,
ost likely cause of her heart failure is A) systolic dysfunction B) diastolic	and a normal ejection fraction (50%–55%).
vsfunction C) hypertrophic cardiomyopathy D) high-output failure <b>D-107.</b> +Res+Adm. An anxious 62-year-old white male comes to the emergency	Heart failure 00 107 Differentiating conding and mulmonormy diagons. ANS-D
partment complaining of extreme shortness of breath and a cough producing	Heart failure. <b>09-107.</b> Differentiating cardiac and pulmonary diseases. <b>ANS=B.</b> This patient has heart failure with a bronchospastic component. The S3 gallop
ood-tinged sputum. The patient denies chest pain and fever. On examination he	occurs with a dilated left ventricle and a right-sided pleural effusion, which are
afebrile and has expiratory wheezes and a few rales throughout the chest. The	common in heart failure. A BNP level is useful in differentiating cardiac and
art is normal except for a rapid rate and an S3 gallop. A chest radiograph	pulmonary diseases, while a troponin I level is helpful in assessing for cardi
veals a right pleural effusion with enlargement of the cardiac silhouette and	ischemia. Arterial blood gasses are not useful in confirming the diagnosis. A C
distribution of blood flow to the upper lobes. Which one of the following tests	angiogram of the chest would be useful for diagnosing pulmonary embolism. A
ould be best for confirming the diagnosis? A) Troponin I B) BNP C) D-dimer	dimer test is helpful to rule out venous thromboembolic disease. UpToDate: Th
) CT angiography of the chest E) Arterial blood gases	release of both ANP and BNP is increased in heart failure (HF), as
	ventricular cells are recruited to secrete both ANP and BNP in response to
NP and BNP, formed in heart are secreted in plasma where their respective half-	the high ventricular filling pressures.
e is about 1 min and 20 min, respectively. BNP is better than ANP to evaluate	
art failure.	
<b>D-183.</b> +Car+Adm. A 55-year-old male consults you because he wants to begin	Heart Failure. 09-183. Ejection fraction. ANS=B. The ejection fraction value is
exercise program. He is asymptomatic, but because of his family history you	important measure of left ventricular function, especially with regard to previou
termine that he should undergo a stress test with echocardiography. Which one	cardiac events, medications, exercise tolerance, and preoperative risk. The
the following would be considered a normal ejection fraction in this patient? A)	normal predicted value is 55%-75% when measured by echocardiography
3% B) 65% C) 76% D) 84% E) 92%	a healthy asymptomatic patient. There is no gender difference, but there is a
	decline with age. It may be as low as 15% in patients with left ventricular
	dysfunction. Ischemic and valvular heart disease may significantly reduce the
	ejection fraction.
<b>D-232.</b> +Car+Cel. An 86-year-old female presents to your office with a	Heart failure. 09-232. ANS=D. The chest radiograph is consistent with heart
mplaint of increasing cough, especially at night, over the past 2-3 weeks. On	failure. It shows cardiomegaly, with a cardiothoracic ratio >6.50, as well as som
amination you hear some crackles at the bases of both lungs. The chest	enlargement of pulmonary veins due to pulmonary venous hypertension. The
diograph shown in <b>Figure 1</b> is consistent with which one of the following	radiograph does not show an infiltrate, as would be expected with community-
uses of this patient's cough? A) Bilateral pneumonia B) Asbestosis C)	acquired pneumonia. Pleural plaques would be expected with asbestosis, and
uberculosis D) Heart failure E) Emphysema	upper-lobe involvement or cavitary lesions with tuberculosis. With emphysema,
	there is typically a small vertical heart and evidence of hyperexpansion.
ALL CONTRACTOR AND A CONTRACTOR	
And a second	
Contraction of the Contraction o	
-062. +Car+Adm. Brain natriuretic peptide (BNP) is a marker for which one of	Heart failure. 10-062. BNP. Brain-type natriuretic peptide (BNP) is synthesized
e following?	stored, and released by the ventricular myocardium in response to volume
Renal failure	expansion and pressure overload. ANS=D. It is a marker for heart failure. This
Acute adrenal insufficiency	hormone is highly accurate for identifying or excluding heart failure, as it has b
Cerebrovascular accident	high sensitivity and high specificity. BNP is particularly valuable in
Heart failure	differentiating cardiac causes of dyspnea from pulmonary causes. In addition, the
Ureteral obstruction	availability of a bedside assay makes BNP useful for evaluating patients in the
Ureteral obstruction	
	emergency department.
-100. +Car+Adm. A 72-year-old male with a history of hypertension and a	emergency department. Heart failure. <b>10-100.</b> Due to systolic dysfunction. <b>ANS=E.</b> ACE inhibitors suc

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
previous myocardial infarction is diagnosed with heart failure. Echocardiography reveals systolic dysfunction, and recent laboratory tests indicated normal renal function, with a serum creatinine level of 1.1 mg/dL (N <1.5), a sodium level of 139 mEq/L (N 136–145), and a potassium level of 3.5 mEq/L (N 3.5–5.0). He is currently asymptomatic. Which one of the following medications would be the best choice for initial management in this patient? A) Furosemide (Lasix) B) Isosorbide dinitrate (Isordil) C) Spironolactone (Aldactone) D) Digoxin E) Lisinopril (Prinivil, Zestril)	as lisinopril are indicated for all patients with heart failure due to systolic dysfunction, regardless of severity. ACE inhibitors have been shown to reduce both morbidity and mortality, in both asymptomatic and symptomatic patients, in randomized, controlled trials. Unless absolutely contraindicated, ACE inhibitors should be used in all heart failure patients. No ACE inhibitor has been shown to be superior to another, and no study has failed to show benefit from an ACE inhibitor (SOR A). Direct-acting vasodilators such as isosorbide dinitrate also could be used in this patient, but ACE inhibitors have been shown to be superior in randomized, controlled trials (SOR B). B-Blockers are also recommended in heart failure patients with systolic dysfunction (SOR A), except those who have dyspnea at rest or who are hemodynamically unstable. These agents have been shown to reduce mortality from heart failure. A diuretic such as furosemide may be indicated to relieve congestion in symptomatic patients. Aldosterone antagonists such as spironolactone are also indicated in patients with symptomatic heart failure. In addition, they can be used in patients with a recent myocardial infarction who develop symptomatic systolic dysfunction and in those with diabetes mellitus (SOR B). Digoxin currently is recommended for patients with heart failure and atrial fibrillation, and can be considered in patients who continue to have symptoms despite maximal therapy with other agents.
<b>10-160.</b> +Car+Adm.>L* A 73-year-old female presents with complaints of dyspnea and decreasing exercise tolerance over the past few months. She says she has to prop herself up on two pillows in order to breathe better. She also complains of palpitations, even at rest. She has long-standing hypertension, but has not taken any antihypertensive medications for several years. She has no history of ischemic heart disease. On examination her blood pressure is 155/92 mm Hg, her pulse rate is 108 beats/min and irregular, and her lungs have bibasilar crackles. An EKG reveals atrial fibrillation, but no changes of acute ischemia. Which one of the following would be most useful for determining her initial	Heart failure. <b>10-160.</b> Diastolic or systolic? <b>ANS=C.</b> This patient's history and clinical examination suggest heart failure. <b>The most important distinction to make is whether it is diastolic or systolic, as the drug treatment may be somewhat different.</b> Physical findings and chest radiographs do not distinguish systolic from diastolic heart failure. An echocardiogram is the study of choice, as it will assess left ventricular function. In diastolic dysfunction, the left ventricular ejection fraction is normal or slightly elevated. <u>Diastolic failure is more common in elderly females and patients with hypertension, and less common in patients with a previous history of coronary artery disease. Diuretics and</u>
treatment? A) A chest radiograph B) Cardiac catheterization C) Echocardiography D) A TSH level E) A D-dimer level	angiotensin receptor blockers (ARBs) are useful treatments. Because of their effects on diastolic filling times, tachycardia and atrial fibrillation often cause decompensation in patients with diastolic heart failure. At this time, cardiac catheterization is not indicated, and a stress test will not provide useful information. If the patient had systolic failure, a workup for ischemic disease would be needed, but most cases of diastolic dysfunction are not caused by ischemia. While hyperthyroidism can cause tachycardia and atrial fibrillation, the more immediate issue in this patient is the heart failure, which requires diagnosis and treatment. A pulmonary embolus can cause shortness of breath but usually has an acute onset, so a D-dimer level would not help at this time.
<ul> <li>10-213. +Car+Cel. A 74-year-old female presents with a several-month history of gradually increasing dyspnea on exertion, swelling in her feet and lower legs, and having to sleep sitting up due to increased shortness of breath while lying flat. She has been healthy otherwise, with no known heart disease or hypertension, and she has no significant family history of heart disease. An echocardiogram shows an ejection fraction of 20% and a thin-walled, diffusely enlarged left ventricle. Which one of the following is the most likely diagnosis?</li> <li>A) Dilated cardiomyopathy</li> <li>B) Hypertrophic cardiomyopathy</li> <li>C) Restrictive cardiomyopathy</li> <li>D) Arrhythmogenic right ventricular cardiomyopathy</li> <li>E) Athlete's heart</li> </ul>	Heart Failure. <b>10-213.</b> dilated cardiomyopathy. <b>ANS=A.</b> This patient's symptoms and echocardiographic findings indicate a dilated cardiomyopathy. In patients with hypertrophic cardiomyopathy the echocardiogram shows left ventricular hypertrophy and a reduction in chamber size. In restrictive cardiomyopathy, findings include reduced ventricular volume, normal left ventricular wall thickness, and normal systolic function with impaired ventricular filling. Arrhythmogenic right ventricular cardiomyopathy usually presents with syncope and without symptoms of heart failure, and segmental wall abnormalities would be seen on the echocardiogram. Highly trained athletes may develop echocardiographic evidence of eccentric cardiac hypertrophy, but no symptoms of heart failure would be present.
<b>08-158.</b> +Pbc+Cel. The risk of heat wave–related death to elderly patients is highest in those who A) have COPD B) have diabetes and are insulin-dependent C) have a functioning fan, but not air conditioning D) are homebound	Heat-related deaths. <b>ANS=D.</b> Factors associated with a higher risk of heat-related deaths include being confined to bed, not leaving home daily, and being unable to care for oneself. Living alone during a heat wave is associated with an increased risk of death, but this increase is not statistically significant. Among medical conditions, the highest risk is associated with preexisting psychiatric illnesses, followed by cardiovascular disease, use of psychotropic medications, and pulmonary disease. A lower risk of heat-related deaths has been noted in those who have working air conditioning, visit air-conditioned sites, or participate in social activities. Those who take extra showers or baths and who use fans have a lower risk, but this difference is not statistically significant.
<ul> <li>08-102. +Gas+Adm. Treatment for <i>Helicobacter pylori</i> infection will reduce or improve which one of the following?</li> <li>A) The risk of peptic ulcer bleeding from chronic NSAID therapy</li> <li>B) The risk of developing gastric cancer in asymptomatic patients</li> <li>C) Symptoms of nonulcer dyspepsia</li> <li>D) Symptoms of gastroesophageal reflux disease</li> </ul>	<i>Helicobacter pylori.</i> <b>08-102. ANS=A.</b> Eradication of <i>Helicobacter pylori</i> significantly reduces the risk of ulcer recurrence and rebleeding in patients with duodenal ulcer, and reduces the risk of peptic ulcer development in patients on chronic NSAID therapy. Eradication has minimal or no effect on the symptoms of nonulcer dyspepsia and gastroesophageal reflux disease. Although <i>H. pylori</i> infection is associated with gastric cancer, no trials have shown that eradication of <i>H. pylori</i> purely to prevent gastric cancer is beneficial.
<b>09-214.</b> +Gas+Adm. A 35-year-old white male presents with dyspepsia. He has had no symptoms that suggest gastroesophageal reflux or bleeding, but a test for <i>Helicobacter pylori</i> is positive. After 2 weeks of treatment with omeprazole (Prilosec), amoxicillin, and clarithromycin (Biaxin), he is asymptomatic. Which one of the following is recommended to test for the eradication of <i>H. pylori</i> in this patient? A) Immunoglobulin G serology	<i>Helicobacter pylori.</i> <b>09-214. ANS=B.</b> There is strong evidence that eradication of <i>H. pylori</i> improves healing and reduces the risk of recurrence or rebleeding in patients with duodenal or gastric ulcer. A test-and-treat approach is recommended for most patients with undifferentiated dyspepsia. This strategy reduces the need for antisecretory medications, as well as the number of endoscopies. The currently recommended test for eradication of <i>H. pylori</i> in this clinical setting is either the urea breath test or <i>H. pylori</i> stool antigen. Serology remains positive for months
B) A urea breath test	after eradication and may give misleading information. Although upper

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>C) Upper endoscopy with a biopsy</li> <li>D) An upper gastrointestinal series</li> <li>07-213. +Hem+Adm. A 48-year-old sedentary white male who is in excellent health presents for a routine evaluation. He takes no medications. He smokes 1 pack of cigarettes a day and does not drink alcohol. His laboratory work is normal except for a urinalysis that reveals 3–5 RBCs/hpf. Results are similar on repeat urinalysis 2 weeks later. A CT scan of the abdomen and pelvis finds the kidneys to be normal with no evidence of stones. Which one of the following would be the most appropriate next step? A) A repeat urinalysis in 1 month B) A urine culture,</li> </ul>	endoscopy, with a biopsy for histology, urease activity, or culture, can be used to test for eradication, it is an invasive procedure with a higher cost and the potential for more morbidity compared to the urea breath test or the <i>H. pylori</i> stool antigen test. Rather than recommending endoscopy for all patients, most national guidelines suggest a test-and-treat strategy unless the patient is over 45 years old or has red flags for malignancy or a complicated ulcer. Although an upper gastrointestinal series might provide information about gross pathology, it will not provide information about the eradication of <i>H. pylori</i> following treatment. Hematuria. <b>07-213.</b> Bladder cancer; Recommendations. <b>ANS=C.</b> The American Urological Association (AUA) recommends that all patients over 40 years of age and those who have risk factors for bladder cancer undergo cystoscopy to complete the evaluation of microscopic hematuria. Cystoscopy is the only reliable method of detecting transitional cell carcinoma of the bladder and the urethra.
<ul> <li>and if negative, a repeat urinalysis in 3 months C) Referral to urology for cystoscopy D) Urine cytology E) CT of the urinary bladder</li> <li>08-179. +Nep+Adm. A 45-year-old male sees you for follow-up after a preemployment physical examination reveals blood in his urine. He brings a copy of a urinalysis report that shows 3–5 RBCs/hpf. He has not seen any gross blood himself. He is asymptomatic, is on no medications, and does not smoke. You perform a physical examination, with normal findings. A repeat urinalysis confirms the presence of red blood cells but is otherwise normal. Which one of the following would be most appropriate at this point?</li> <li>A) Observation and reassurance</li> <li>B) A repeat urinalysis in 6 months</li> <li>C) Urine cytology only</li> <li>D) Ultrasonography of the kidneys and urine cytology only</li> <li>E) Ultrasonography of the kidneys, urine cytology, and cystoscopy</li> <li>09-195. +Nep+Adm. A 44-year-old male sees you for evaluation of an episode of pink-tinged urine last week. He denies any flank or abdominal pain, as well as</li> </ul>	Hematuria. 08-179. ANS=E. The American Urological Association (AUA) defines clinically significant microscopic hematuria as ≥3 RBCs/hpf. Microscopic hematuria is frequently an incidental finding, but may be associated with urologic malignancy in up to 10% of adults. The upper urinary tract should be evaluated in this patient. There are no clear evidence-based imaging guidelines for upper tract evaluation; therefore, intravenous urography, ultrasonography, or CT can be considered. Ultrasonography is the least expensive and safest choice because it does not expose the patient to intravenous radiographic contrast media. Urine cytology and cystoscopy are used routinely to evaluate the lower urinary tract. The AUA recommends that patients with microscopic hematuria have radiographic assessment of the upper urinary tract, followed by urine cytology studies. The AUA also recommends that all patients older than 40 and those who are younger but have risk factors for bladder cancer undergo cystoscopy to complete the evaluation. Cystoscopy is the only reliable method of detecting transitional cell carcinoma of the bladder and urethra. Hematuria. 09-195. ANS=D. CT urography or intravenous pyelography is recommended by the American College of Radiology as the most appropriate
frequency, urgency, and dysuria. He has no prior history of renal or other urologic disease, and no other significant medical problems. He has a 24-pack-year smoking history. A urinalysis today reveals 8–10 RBCs/hpf. You refer him to a urologist for cystoscopy. Which one of the following would be the most appropriate additional evaluation? A) KUB radiography B) Transabdominal ultrasonography C) Voiding cystourethrography D) CT urography E) Magnetic resonance urography	imaging procedure for hematuria in all patients, with the exception of those with generalized renal parenchymal disease, young women with hemorrhagic cystitis, children, and pregnant females.
<b>07-231.</b> +Hem+Adm. Which one of the following is the best initial screening test for hemochromatosis? A) Total iron binding capacity B) Hemoglobin electrophoresis C) Serum iron concentration D) Serum ferritin concentration E) Serum transferrin saturation	Hemochromatosis, hereditary. 07-231. ANS=E. The diagnosis of hereditary hemochromatosis is based on a combination of clinical, laboratory, and pathologic criteria, including elevated serum transferrin saturation and elevated serum ferritin concentration. Elevated serum transferrin saturation is the earliest phenotypic abnormality. While this is the best initial screening test, results may be normal early in the course of the disease. In addition, because serum iron concentrations vary throughout the day and measurements may be affected by the ingestion of food, a test showing elevated serum transferrin saturation should be repeated as a fasting early-morning determination. Furthermore, the serum ferritin concentration and serum transferring saturation may be elevated in 30%–50% of patients with acute or chronic viral hepatitis or alcoholic liver disease. Serum ferritin concentration is a sensitive measure of iron overload, but it is also an acute-phase reactant and is therefore elevated in a variety of infectious and inflammatory conditions in the absence of iron overload. Consequently, it should not be used as the initial screening test to detect hereditary hemochromatosis.
08-023. +Hem+Adm. A 45-year-old white male is admitted to the intensive-care unit after being pinned in a car wreck for 2 hours. He has sustained several broken bones and crush injuries to both thighs. On admission his urine is clear but the next morning it is burgundy colored. Some fresh urine is drawn from his Foley catheter and sent for analysis, with the following results:         Specific gravity.       1.020         pH       6.0         Protein.          No mg/dL (N 1–14)         Glucose.          negative         Hemoglobin.          Hemoglobin.          Bile.          No negative         RBCs.          Occasional hyaline casts         You immediately order a CBC which shows his hematocrit to have dropped 4         percentage points overnight. Visual inspection of the serum shows it is clear.         The color of his urine is most likely due to A) myoglobinuria B) hematuria from	Hemoglobinuria. <b>08-023. ANS=A.</b> A positive dipstick for hemoglobin without any RBCs noted in the urine sediment indicates either free hemoglobin or myoglobin in the urine. Since the specimen in this case was a fresh sample, significant RBC hemolysis within the urine would not be expected. <u>If a</u> <u>transfusion reaction occurs, haptoglobin binds enough free hemoglobin in the</u> <u>serum to give it a pink coloration. Only when haptoglobin is saturated will</u> <u>the free hemoglobin be excreted in the urine.</u> <u>Myoglobin is released when</u> <u>skeletal muscle is destroyed by trauma, infarction, or intrinsic muscle</u> <u>disease.</u> If the hematuria were due to trauma there would be many RBCs visible on microscopic examination of the urine. Free hemoglobin resorption from hematomas does not occur. Porphyria may cause urine to be burgundy colored, but it is not associated with a positive urine test for hemoglobin.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
trauma to the urinary tract C) a transfusion reaction with hemolysis of RBCs and	Document copy for the sole personal use of D1. Mario Atberto simenez
free hemoglobin into the urine D) hemoglobinuria resulting from reabsorption of	
hemoglobin from hematomas E) acute porphyria provoked by trauma	
07-103. +Gas+Adm. Which one of the following would be the best treatment	Hemorrhoids. 07-103. Hemorrhoids are divided into four categories. ANS=D.
option for prolapse of a fourth degree hemorrhoid that cannot be reduced? A)	First degree hemorrhoids bleed with defecation but do not prolapse through the
Rubber band ligation B) Infrared coagulation C) Injection sclerotherapy D)	anus. They are associated with mild symptoms and usually are secondary to
Hemorrhoidectomy E) A high-fiber diet	leakage of blood from mildly inflamed, thin-walled veins or arterioles.
	Conservative management with dietary manipulation (addition of fiber) and
	<b>attention to anal hygiene often is adequate</b> . Recurrent rectal bleeding may require ablation of the vessels with nonsurgical techniques (e.g., injection
	sclerotherapy, infrared coagulation, rubber band ligation).
	Second degree hemorrhoids prolapse with defecation and reduce
	spontaneously. These can be treated with rubber band ligation or other
	nonsurgical ablative techniques. Third degree hemorrhoids prolapse and
	require manual reduction. There is significant destruction of the suspensory
	ligaments. Relocation and fixation of the mucosa to the underlying muscle wall
	generally is necessary. Prolapse initially can be treated with rubber band ligation, although hemorrhoidectomy may be required. Fourth degree hemorrhoids
	prolapse and cannot be reduced. If treatment is necessary, these require
	hemorrhoidectomy.
<b>08-075.</b> Rep+Csp. A 72-year-old male slipped on a rug in his kitchen and struck	Hemothorax. 08-075. ANS=A. This patient has been clinically stable despite
his right side against a counter. He presents several days after the fall with a	losing what appears to be a fair amount of blood into his pleural space after
complaint of ongoing pain in his flank. He has a history of chronic atrial	fracturing two ribs, a condition referred to as hemothorax. The treatment of choice
fibrillation, which is treated with warfarin (Coumadin). His vital signs are normal.	in this condition is to remove the bloody fluid and re-expand the associated lung.
A physical examination reveals tenderness to palpation along the posterior-lateral	This therapy is felt to decrease any ongoing blood loss by having the lung pleura
chest wall and decreased breath sounds in the right base. Radiographs reveal two fractured ribs on the right side and a moderately large pleural effusion in the right	put a direct barrier over the site that is bleeding. It also prevents the development
hemithorax. Laboratory test results include a hemoglobin of 10.5 mg/dL (baseline	of empyema or fibrosis, which could occur if the blood were to remain.
11.0-12.0  mg/dL) and a prothrombin time of 33.5 seconds with an INR of 3.5.	
Which one of the following would be the most appropriate management at this	
time?	
A) Evacuation of the pleural space	
B) Prophylactic antibiotics	
C) Open fixation of the ribs with control of bleeding	
D) Symptomatic treatment and close follow-up E) Use of a rib binder for 2–3 weeks	
<b>07-107.</b> +Hem+Adm. A 56-year-old white male has a prosthetic heart valve and is	Heparin-induced thrombocytopenia. 07-107. (HIT) can have devastating
anticoagulated with warfarin (Coumadin). He undergoes bilateral total knee	consequences, leading to both arterial and venous thrombosis, limb ischemia, and
replacement, and the warfarin is discontinued and replaced with perioperative	death. ANS=D. Patients with this condition should not be treated with low
unfractionated heparin. The day after surgery his platelet count has fallen from	molecular weight heparin, since these medications have high cross-reactivity with
225,000/mm3 to 75,000/mm3 (N 150,000–300,000). In addition to discontinuing	circulating PF4-heparin antibodies. Warfarin monotherapy in patients with active
heparin, which one of the following would be most appropriate at this time? A) Restart warfarin	heparin-induced thrombocytopenia is also contraindicated, on the basis of reports of warfarin-induced skin necrosis and venous gangrene in the limbs. Neither
B) Begin low molecular weight heparin	aspirin nor placement of an inferior vena cava filter is considered adequate
C) Begin aspirin	therapy. Lepirudin is a highly specific direct thrombin inhibitor indicated for
D) Begin lepirudin (Refludan)	patients with HIT in the setting of acute thromboembolic disease. (Hint:
E) Place an inferior vena cava filter	LEP zeppelIN (LEPirudIN) was a HIT)
<b>10-053.</b> +Hem+Adm. A 62-year-old female undergoes elective surgery and is	Heparin-induced thrombocytopenia. 10-053. (HIT). ANS=D. This patient needs
discharged on postoperative day 3. A week later she is hospitalized again with	prompt evaluation and treatment for probable HIT. HIT is a potentially life-
pneumonia. A CBC shows that her platelet count has dropped to 150,000/mm3 (N 150,000–300,000) from 350,000 /mm3 a week ago. She received prophylactic	threatening syndrome that usually occurs within 1–2 weeks of heparin administration and is characterized by the presence of HIT antibodies in the
heparin postoperatively during her first hospitalization. The patient is started on	administration and is characterized by the presence of HIT antibodies in the serum, associated with an otherwise unexplained 30%–50% decrease in the
intravenous antibiotics for the pneumonia and subcutaneous heparin for deep-vein	platelet count, arterial or venous thrombosis, anaphylactoid reactions immediately
thrombosis prophylaxis. On hospital day 2, she has an acute onset of severe	following heparin administration, or skin lesions at the site of heparin injections.
dyspnea and hypoxia; CT of the chest reveals bilateral pulmonary emboli. Her	Postoperative patients receiving subcutaneous unfractionated heparin prophylaxis
platelet count is now 80,000/mm3. Which one of the following would be most	are at highest risk for HIT. Because of this patient's high-risk scenario and the
appropriate at this point?	presence of acute thrombosis, it is advisable to begin immediate empiric treatment
A) Continue subcutaneous heparin B) Discontinue subcutaneous heparin and start a continuous intravanous heparin	for HIT pending laboratory confirmation. Management should include
B) Discontinue subcutaneous heparin and start a continuous intravenous heparin drip	discontinuation of heparin and treatment with a non-heparin anticoagulant.
C) Discontinue heparin and give a platelet transfusion	
D) Discontinue heparin and start a non-heparin anticoagulant such as argatroban	
or desirudin (Iprivask)	
E) Discontinue unfractionated heparin and start a low molecular weight heparin	
such as enoxaparin (Lovenox)	
<b>08-021.</b> +Pbc+Com. Which one of the following preventive measures is	Hepatitis A. <b>08-021.</b> Prophylaxis. <b>ANS=B.</b> More than a dozen vaccines are
recommended for nearly all international travelers to developing countries?	available for diseases with a high prevalence in developing countries. The primary
A) Gamma-Globulin B) Hepatitis A vaccine	care physician should make sure that international travelers are up to date on routine immunizations, given that vaccine-based immunity to tetanus, diphtheria,
C) Hepatitis B vaccine	polio, and measles wanes over time, and that these diseases are highly prevalent
D) Typhoid vaccine	abroad. While location-specific situations may require particular immunizations
E) Yellow fever vaccine	such as typhoid, yellow fever, or hepatitis B vaccine, and/or administration of
	Gamma-globulin, hepatitis A vaccine is recommended for nearly all international
10.210 Dest Com * Which are of the full-mine activate is with last 1. Co	travelers.
<b>10-210.</b> +Pbc+Com.* Which one of the following patients is unlikely to benefit	Hepatitis A. <b>10-210.</b> Prophylaxis. ANS=E. Each of the individuals listed is at
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 73 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
from vaccination against hepatitis A? A) A missionary traveling to Mexico B) A man who has sex with men	increased risk for hepatitis A infection or its complications, except for the Indian immigrant. Hepatitis A is so prevalent in developing countries such as India that virtually everyone is infected by the end of childhood, and therefore immune.
<ul> <li>C) A methamphetamine addict</li> <li>D) A patient with chronic hepatitis C</li> <li>E) A 40-year old recent immigrant from India</li> </ul>	Infection with hepatitis A confers lifelong immunity, so an adult from a highly endemic area such as India has little to gain from vaccination.
<b>07-072.</b> +Gas+Adm. A 30-year-old nurse was vaccinated more than 10 years ago for hepatitis B. When attempting to donate blood recently, he was found to have mildly elevated liver transaminases and now is concerned about the possibility of viral hepatitis. Which one of the following serologic results would be consistent with acute hepatitis B virus infection?	Hepatitis B. 07-072. <u>Hepatitis B core antibody will be present only if infection</u> with hepatitis B virus has occurred. ANS=C. It does not result from immunization. <u>Hepatitis B surface antigen is positive in an acute infection,</u> and clears in infections that do not become chronic. Therefore, a negative surface antigen does not rule out past infection. <u>Hepatitis B surface antibody</u>
<ul> <li>A) Negative hepatitis B surface antigen (HBsAg)</li> <li>B) Positive hepatitis B surface antibody (anti-HBs)</li> <li>C) Positive hepatitis B core antibody (anti-HBc)</li> <li>D) Positive hepatitis B core antigen (HBcAg)</li> </ul>	will be negative in the early stages of infection; it can be positive with either viral infection or immunization. Hepatitis B core antigen is not found in the serum of patients infected with hepatitis B.
<ul> <li>08-092. +Gas+Adm. You see a patient for the first time who has AIDS and chronic hepatitis B. He is losing weight, and in spite of adequate antiretroviral therapy, is becoming weaker, to the point of being virtually bedridden. Because of ascites, low serum albumin, and elevated liver enzymes, you suspect chronic hepatitis as the cause of his decline. Which one of the following would be most likely to improve this patient's condition?</li> <li>A) Antiviral drugs for hepatitis B</li> <li>B) Appetite stimulation with topical androgens</li> <li>C) Appetite stimulation with dronabinol (Marinol)</li> <li>D) Liver transplantation</li> </ul>	Hepatitis B. <b>08-092.</b> Chronic. <b>ANS=A.</b> Effective oral antiviral drugs are now available for chronic hepatitis B (at a cost of about \$20 per day) and can be added to highly active antiretrovirals. The recent trend in the treatment of newly diagnosed patients with AIDS and hepatitis B is to treat both problems initially, selecting AIDS drugs that are also active against hepatitis B. Various agents to stimulate appetite are used in declining HIV patients, but have little benefit. Liver transplantation has been done in a few cases of coinfection with hepatitis B and HIV, but the hepatitis B viremia has to be suppressed first.
<ul> <li>E) No treatment, with palliative care being the only appropriate management</li> <li>09-165. +Gas+Mac. A patient in the first trimester of pregnancy has just learned that her husband has acute hepatitis B. She feels well, and her screening test for hepatitis B surface antigen (HBsAg) was negative last month. She has not been immunized against hepatitis B. Which one of the following would be the most appropriate management of this patient? A) No further workup or immunization at this time, a repeat HBsAg test near term, and treatment of the newborn if the test is positive B) Use of condoms for the remainder of the pregnancy, and administration of immunization after delivery C) Testing for hepatitis B immune globulin (HBIG) now and hepatitis B vaccine after the first trimester E) Administration of both HBIG and hepatitis B vaccine now</li> <li>10-078. +Gas+Adm.&gt;L* In a patient with chronic hepatitis B, which one of the following findings suggests that the infection is in the active phase?</li> <li>A) A normal liver biopsy</li> <li>B) Detectable levels of HBeAb</li> <li>C) Detectable levels of HB bAD</li> <li>D) Elevated levels of HB bY DNA</li> </ul>	Hepatitis B. <b>09-165.</b> Pregnancy. <b>ANS=E.</b> Hepatitis B immune globulin (HBIG) should be administered as soon as possible to patients with known exposure to hepatitis B. Hepatitis B vaccine is a killed-virus vaccine and can be used safely in pregnancy, with no need to wait until after organogenesis. This patient has been exposed to sexual transmission for at least 6 weeks, given that the incubation period is at least that long, so it is too late to use condoms to prevent infection. The patient is unlikely to be previously immune to hepatitis B, given that she has no history of hepatitis B infection, immunization, or carriage. Because the patient's HBsAg is negative, she is not the source of her husband's infection. Full treatment for this patient has an efficacy of only 75%, so follow-up testing is still needed. Hepatitis B. <b>10-078.</b> Chronic. <b>ANS=D.</b> Chronic hepatitis B develops in a small percentage of adults who fail to recover from an acute infection, in almost all infants infected at birth, and in up to 50% of children infected between the ages of 1 and 5 years. Chronic hepatitis B has three major phases: immune-tolerant, immune-active, and inactive-carrier. There usually is a linear transition from one phase to the next, but reactivation from immune-active phase also can be seen. Active viral replication occurs during the immune-tolerant phase when there is little or no evidence of disease activity, and this can last for many years before progressing to the immune-active phase (evidenced by elevated liver enzymes, indicating liver inflammation, and the presence of HBeAg, indicating high levels of HBV DNA). Most patients with chronic hepatitis B virus in the bloodstream.
<b>07-217.</b> +Gas+Adm. A 45-year-old white female is diagnosed with hepatitis C. Which one of the following would be most useful to determine the stage of the disease? A) Liver enzymes (ALT/AST) B) A prothrombin time C) A hepatitis C viral assay D) A CT scan of the liver E) A liver biopsy	Hepatitis C. 07-217. ANS=E. Approximately 2% of the U.S. population is positive for hepatitis C. Intravenous drug users and those who received blood transfusions before 1990 are at risk. Screening is done through antibody screening and confirmed by viral assay. Liver enzyme testing is not reliable. The best way to determine the stage of the disease is with a liver biopsy.
<ul> <li>07-145. +Neu+Com. When given during acute herpes zoster (varicella) infection, which one of the following drugs has been shown to reduce the incidence of postherpetic neuralgia?</li> <li>A) Imipramine (Tofranil)</li> <li>B) Capsaicin (Zostrix)</li> <li>C) Amitriptyline</li> <li>D) Acyclovir (Zovirax)</li> <li>E) Oral prednisone</li> </ul>	Herpes zoster. <b>07-145.</b> Infection. <b>ANS=D.</b> A systematic review of 42 randomized, controlled trials showed that acyclovir reduced the incidence of postherpetic neuralgia at 3 months (number needed to treat = 3.2–8.0). Famciclovir was shown to reduce the duration of postherpetic pain. No conclusions could be drawn with regard to amitriptyline, narcotics, capsaicin, anticonvulsants, or percutaneous nerve stimulation. Studies examining these treatments were of fair to poor quality. Systemic corticosteroids showed no additional benefit.
<ul> <li>09-203. +Sen+Adm. A 50-year-old female presents with a 2-day history of four vesicles on her upper eyelid, but no pain or swelling. She has not experienced any eye trauma, has had no vision changes, and has no other skin changes. Which one of the following would be the most appropriate next step in treating this patient?</li> <li>A) Referral to an ophthalmologist B) A methylprednisolone (Medrol) dose pack</li> <li>C) A topical corticosteroid D) Topical mupirocin (Bactroban) E) Topical metronidazole (MetroGel)</li> </ul>	Herpes zoster. <b>09-203.</b> Ophthalmicus. <b>ANS=A.</b> This patient likely has herpes zoster ophthalmicus. In addition to treatment with a systemic antiviral agent, it is important that the patient see an ophthalmologist to be evaluated for corneal disease and iritis, as vision can be lost. This is a viral infection, so corticosteroids could worsen the infection. Mupirocin or metronidazole would not resolve the infection.
<b>10-051.</b> +Res+Adm. A 53-year-old male presents to your office with a several-day history of hiccups. They are not severe, but have been interrupting his sleep, and he is becoming exasperated. What should be the primary focus of treatment in         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 74 of 170	Hiccups. <b>10-051.</b> Hiccups are caused by a respiratory reflex that originates from the phrenic and vagus nerves, as well as the thoracic sympathetic chain. <b>ANS=C.</b> Hiccups that last a matter of hours are usually benign and self-limited, and may be Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it i

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>this individual?</li> <li>A) Drug treatment to prevent recurrent episodes</li> <li>B) Decreasing the intensity of the muscle contractions in the diaphragm</li> <li>C) Finding the underlying pathology causing the hiccups</li> <li>D) Improving the patient's quality of sleep</li> <li>E) Suppressing the current hiccup symptoms</li> </ul>	caused by gastric distention. Treatments usually focus on interrupting the reflex loop of the hiccup, and can include mechanical means (e.g., stimulating the pharynx with a tongue depressor) or medical treatment, although only chlorpromazine is FDA-approved for this indication. If the hiccups have lasted more than a couple of days, and especially if they are waking the patient up at night, there may be an underlying pathology causing the hiccups. In one study, 66% of patients who experienced hiccups for longer than 2 days had an underlying physical cause. Identifying and treating the underlying disorder should be the focus of management for intractable hiccups.
<b>09-151.</b> +Pbc+Com. According to the Health Insurance Portability and Accountability Act of 1996 (HIPAA), in which situation would a physician be allowed to disclose personal information without the patient's written authorization? A) The patient makes a verbal request to release information B) The patient's spouse requests information C) The adult children of the patient request written information D) A lawyer who claims to represent the patient requests information E) Another physician involved in the patient's care requests information	HIPAA. <b>09-151. ANS=E.</b> HIPAA legislation states that a patient's personal medical and financial information cannot be released unless the patient authorizes such a release in writing. The exceptions to this standard are the following: (1) coordination of care between providers and those involved in the patient's case (i.e., caretakers, nurses, consulting physicians); (2) arranging payment for medical services rendered; and (3) health-care operations such as evaluating a provider or system's competency or quality. The privacy rule allows some discretion to a physician in "coordinating care," even allowing a physician to speak with family members if that physician "in his or her professional judgment" feels it is in the patient's best interest. In such situations it is advisable to ask the patient's permission to do so if possible, and the information should be related on a need-to-know basis.
<ul> <li>10-049. +Pbc+Adm. The Health Insurance Portability and Accountability Act (HIPAA)</li> <li>A) sets a federal minimum on the protection of privacy</li> <li>B) requires that privacy notices be acknowledged and signed at each office visit C) allows the patient to inspect and obtain a copy of his/her record without exception</li> <li>D) requires privacy notices prior to giving emergency care</li> </ul>	HIPAA. 10-049. HIPAA regulations set a minimum standard for privacy protection. ANS=A. Privacy notices must be provided at the first delivery of health services, and written acknowledgement is encouraged but not required. Exceptions to patient inspections include psychotherapy notes and instances where disclosure is likely to cause substantial harm to the patient or another individual in the judgment of a licensed health professional. Although it is not necessary to provide patients with a privacy notice before rendering emergency care, it is required that patients be provided with a privacy notice after the emergency has ended.
<ul> <li>07-055. +End+Cfp. A 26-year-old white female with regular periods presents to your office with complaints of excessive hair growth. An examination reveals moderately increased facial and body hair. Which one of the following studies would you order initially to evaluate androgen excess?</li> <li>A) Dehydroepiandrosterone</li> <li>B) FSH</li> <li>C) Free testosterone</li> <li>D) Prolactin</li> <li>E) 17 a-hydroxyprogesterone</li> </ul>	Hirsutism. 07-055. ANS=C. With mild hirsutism, regular menses, and no features to suggest a secondary cause, it is reasonable to forgo laboratory evaluation given the very high likelihood that the hirsutism is idiopathic. About half of women with moderate or severe hirsutism have androgen excess. The initial step in the workup should be measurement of plasma free testosterone in the early morning, ideally between days 4 and 10 of the menstrual cycle. If free testosterone is abnormal, further workup would include an evaluation for an underlying cause. The 2002 ACOG guidelines on hirsutism state that dehydroepiandrosterone sulfate levels should be measured only in cases of rapid virilization. If testosterone is elevated, ACOG recommends measurement of thyrotropin, prolactin, and early-morning levels of 17 a-hydroxyprogesterone to rule out other androgen-excess disorders. ACOG suggests considering evaluation for Cushing's syndrome and other rare disorders only with suggestive symptoms or signs. If this woman with hirsutism had reported irregular menses consistent with anovulation, polvcystic ovary syndrome (PCOS) should be suspected as the cause of her androgen excess and hirsutism. The workup for PCOS should include evaluation for glucose intolerance and metabolic syndrome.
<ul> <li>08-008. +Res+Adm. A 40-year-old male respiratory therapist presents for a health examination prior to hospital employment. His history indicates that as a child he lived on a farm in Iowa, and his examination is unremarkable, but a chest radiograph shows that both lung fields have BB-sized calcifications in a miliary pattern. No other findings are noted. A PPD skin test is negative. The findings in this patient are most likely a result of A) HIV infection</li> <li>B) histoplasmosis</li> <li>C) coccidioidomycosis</li> <li>D) tuberculosis</li> <li>E) cryptcocccosis</li> </ul>	Histoplasmosis. <b>08-008</b> . <b>ANS=B</b> . Asymptomatic patients in excellent health often present with this characteristic chest radiograph pattern, which is usually due to histoplasmosis infection, especially if the patient has been in the midwestern United States. Exposure to bird or bat excrement is a common cause, and treatment is usually not needed. This pattern is not characteristic of the other infections listed, although miliary tuberculosis is a remote possibility in spite of the negative PPD skin test.
<ul> <li>a) a production of the prophylaxis</li> <li>b) begin three-drug HIV prophylaxis</li> <li>c) begin three-drug HIV prophylaxis</li> </ul>	HIV. 07-223. Prophylaxis. ANS=B. <u>The risk of developing HIV after a large- bore needle stick from a known HIV positive patient is less than 0.3%.</u> <u>Current guidelines for patients exposed to small-bore or solid needle sticks</u> <u>from unknown sources do not recommend prophylaxis</u> , <u>unless there is a high</u> <u>likelihood of the source being HIV positive.</u>
<b>09-077.</b> +Hem+Adm. A 34-year-old white male letter carrier has developed progressively worsening dysphagia for liquids and solids over the past 3 months. He says that he has lost about 30 lb during that time. On examination, you note that he is emaciated and appears ill. His pulse rate is 98 beats/min, temperature 37.8°C (100.2°F), respiratory rate 24/min, and blood pressure 95/60 mm Hg. His weight is 45 kg (99 lb) and his height is 170 cm (67 in). His dentition is poor, and there is evidence of oral thrush. His mucous membranes are dry. You palpate	HIV. 09-077. ANS=A. A young man with weight loss, oral thrush, lymphadenopathy, and ulcerative esophagitis is likely to have HIV infection. Intravenous drug use is responsible for over a quarter of HIV infections in the United States. Esophageal disease develops in more than half of all patients with advanced infection during the course of their illness. The most common pathogens causing esophageal ulceration in HIV-positive patients include Candida, herpes simplex virus, and cytomegalovirus. Identifying the causative

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
small posterior cervical and axillary nodes. The heart, lung, and abdominal examinations are normal. You promptly consult a gastroenterologist, who performs upper endoscopy, which reveals numerous small ulcers scattered throughout the esophagus with otherwise normal mucosa. As you continue to investigate, you take a more detailed history. Which one of the following is most likely to be related to the patient's problem? A) Intravenous drug use B) A family history of esophageal cancer C) Chest pain relieved by nitroglycerin D) Recent travel to Russia	agent through culture or tissue sampling is important for providing prompt and specific therapy.
<b>09-192.</b> +Res+Adm. Which one of the following treatment regimens is most appropriate for an HIV-positive 42-year old who has latent tuberculosis infection? A) Isoniazid daily for 9 months B) Rifampin (Rifadin) daily for 4 months C) Rifampin plus pyrazinamide daily for 2 months D) Combination therapy with isoniazid, rifampin, pyrazinamide, and ethambutol (Myambutol) for 2 months	HIV. 09-192. Tuberculosis, latent. ANS=A. Latent tuberculosis infection carries a risk of progression to active disease, especially among patients who are immunosuppressed. Isoniazid monotherapy is the treatment of choice for most patients with latent tuberculosis infection. Rifampin is not recommended as monotherapy in patients with HIV infection because of increased rates of resistance and drug interactions with many antiretrovirals. Rifampin plus pyrazinamide is no longer recommended for treatment of latent tuberculosis infection because cases of significant hepatotoxicity have occurred with preventive therapy. Combination drug therapy is reservedfor treatment of active tuberculosis in order to prevent drug resistance.
<ul> <li>10-067. +Pbc+Com.* The Centers for Disease Control and Prevention currently recommends that all patients between the ages of 13 and 64 years be screened for A) tuberculosis</li> <li>B) hepatitis B</li> <li>C) human papillomavirus infection</li> <li>D) elevated serum cholesterol levels</li> <li>E) HIV infection</li> </ul>	HIV. 10-067. screening. ANS=E. The focus of screening for HIV has been shifted from testing only high-risk individuals to routine testing of all individuals in health-care settings. There are an estimated 1.1 million people in the United States with HIV, and 25% are undiagnosed. Only 36.6% of adults have had an HIV test. Screening for hepatitis B and for tuberculosis is recommended only for certain at- risk populations. There is no generally used test for human papillomavirus. The CDC has not made any recommendations regarding screening for high cholesterol.
<ul> <li>10-110. +Hem+Adm.* The most common initial symptom of Hodgkin lymphoma is</li> <li>A) unexplained fever</li> <li>B) night sweats</li> <li>C) weight loss</li> <li>D) painless lymphadenopathy</li> <li>E) cough</li> </ul>	Hodgkin lymphoma. <b>10-110.</b> ANS=D. The most common presenting symptom of Hodgkin lymphoma is painless lymphadenopathy. Approximately one-third of patients with Hodgkin lymphoma present with unexplained fever, night sweats, and recent weight loss, collectively known as "B symptoms." Other common symptoms include cough, chest pain, dyspnea, and superior vena cava obstruction caused by adenopathy in the chest and mediastinum.
<ul> <li>07-076. +Pbs+Adm. Which one of the following statements is true regarding medication for homeless populations?</li> <li>A) For children &gt;5 years old, a liquid formulation is preferred</li> <li>B) Sleeping pills should be prescribed to improve rest in noisy shelters</li> <li>C) Pseudoephedrine can be used to make crack cocaine</li> <li>D) Once-daily therapy is preferable</li> </ul>	Homeless. <b>07-076.</b> Homeless patients face many barriers in accessing and complying with medical care. <b>ANS=D</b> . The goal of a provider should be to decrease the difficulty of adhering to medical regimens. Using the simplest medical regimen warranted by standard clinical guidelines is helpful, with once-daily, directly observed therapy being preferable. Liquid formulations should be avoided if possible, because of the need for measuring and refrigerating. Medications with sedative effects may compromise a patient's safety on the streets or in shelters. Pseudoephedrine should be prescribed carefully, as it can be used to make methamphetamine. Albuterol can be used to enhance the effects of crack cocaine. Diuretics can be problematic for patients who have limited access to bathroom facilities during the day.
<ul> <li>08-096. +Mus+Adm. A 56-year-old female has been on combined continuous hormone therapy for 6 years. This is associated with a reduced risk for which one of the following?</li> <li>A) Bone fracture</li> <li>B) Myocardial infarction</li> <li>C) Stroke</li> <li>D) Breast cancer</li> </ul>	Hormone replacement therapy. 08-096. <u>Hormone replacement therapy that</u> <u>includes estrogen has been shown to decrease osteoporosis and bone fracture</u> <u>risk.</u> ANS=A. The risk for colorectal cancer also is reduced after 5 years of estrogen use. The risk for myocardial infarction, stroke, breast cancer, and venous thromboembolism increases with long-term use. See also 10-143: <u>Hormone replacement therapy is recommended for osteoporosis only in</u> <u>women with moderate or severe vasomotor symptoms. The lowest possible</u>
<ul> <li>E) Venous thromboembolism</li> <li>08-165. +Neu+Adm. A 54-year-old white male presents with drooping of his right eyelid for 3 weeks. On examination, he has ptosis of the right upper lid, miosis of the right pupil, and decreased sweating on the right side of his face. Extraocular muscle movements are intact. In addition to a complete history and physical examination, which one of the following would be most appropriate at this point?</li> <li>A) A chest radiograph</li> <li>B) MRI of the brain and orbits</li> <li>C) I thyroid scanning 131</li> <li>D) A fasting blood glucose level</li> <li>E) An acetylcholine receptor antibody level</li> </ul>	dose should be used for the shortest amount of time possible (SOR C). Horner's syndrome. 08-165. ANS=A. The clinical triad of Horner's syndrome— ipsilateral ptosis, miosis, and decreased facial sweating—suggests decreased sympathetic innervation due to involvement of the stellate ganglion, a complication of Pancoast's superior sulcus tumors of the lung. Radiographs or MRI of the pulmonary apices and paracervical area is indicated. Horner's syndrome may accompany intracranial pathology, such as the lateral medullary syndrome (Wallenberg's syndrome), but is associated with multiple other neurologic symptoms, so MRI of the brain is not indicated at this point. The acetylcholine receptor antibody level is a test for myasthenia gravis, which can also present with ptosis, but not with full-blown Horner's syndrome. Diabetes mellitus and thyroid disease do not commonly present with Horner's syndrome.
<b>07-025.</b> +Pbs+Com. An 85-year-old female with hypertension is receiving hospice care for oral cancer. Which one of the following services typically would NOT be covered under hospice? A) Dietary counseling B) Short-term inpatient care C) Drugs for symptom control D) Drugs for hypertension E) Speech therapy	Hospice. 07-025. Hospice covers a wide array of services, including dietary counseling; short-term hospital and respite care; medicine and supplies to treat symptoms of terminal illness; physical, occupational, and speech therapies; and many other benefits as deemed appropriate by the hospice team. ANS=D. However, medicine used to cure the illness that led to hospice care, as well as medicines that treat other comorbid illnesses, are not covered under the hospice benefit. Therefore, it is important for patients to maintain other coinsurances.
<b>09-067.</b> +Pbs+Com. Under current guidelines, hospice programs are most likely to serve patients dying from A) heart failure B) COPD C) severe dementia D) multiple strokes E) cancer	Hospice. <b>09-067. ANS=E.</b> The general requirement for enrolling an individual in hospice is that they have a terminal illness and an estimated life expectancy of 6 months or less. Given these criteria, it is not surprising that over 40% of hospice patients have a cancer diagnosis. Cancer usually has a short period of obvious decline at the end and is predictable to a degree. Diseases such as COPD, end-
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 76 of 170 receive."	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	stage liver disease, and heart failure result in long-term disability with periodic exacerbations, any one of which could result in death, but far less predictably. Those with severe dementia or frailty often experience a dwindling course that is also difficult to predict.
<ul> <li>07-094. +Pbc+Com. Homosexual males who engage in anal receptive intercourse are at risk for developing anal carcinoma associated with which one of the following infections?</li> <li>A) Syphilis</li> <li>B) Human papillomavirus</li> <li>C) <i>Chlamydia</i></li> <li>D) Gonorrhea</li> </ul>	HPV. <b>07-094.</b> Human papillomavirus types 16 and 18 are associated with anal and genital warts and the development of anal carcinomas. <b>ANS=B.</b> Anal Papanicolaou smears are recommended yearly for HIV-positive patients because of their increased risk for HPV-related carcinoma. The other STDs listed are not associated with anal carcinoma.
<ul> <li>E) Calymmatobacterium granulomatis (granuloma inguinale)</li> <li>08-189. +Ref+Cfp. You see a 17-year-old female for a routine visit. She tells you she has been sexually active for 3 years and that her partners have used condoms, but not consistently. She has never had a Papanicolaou (Pap) test. You provide counseling regarding contraception and sexually transmitted diseases, and perform a gynecologic examination, including a Pap test. The results of the test are reported as atypical squamous cells of undetermined significance (ASC-US). According to the American Society for Colposcopy and Cervical Pathology, which one of the following would be most appropriate with regard to the abnormal smear?</li> <li>A) A repeat Pap test in 3–6 months</li> <li>B) A repeat Pap test in 12 months</li> <li>C) HPV DNA testing</li> <li>D) Colposcopy</li> </ul>	HPV. <b>08-189.</b> The risk associated with abnormal results on cytologic testing vary with the age of the patient. <b>ANS=B.</b> Adolescents have a high prevalence of human papillomavirus (HPV) infection, but a very low risk for invasive cervical cancer. The vast majority of HPV infections will clear within 2 years after the initial infection, and have little clinical significance. Follow-up annual cytologic testing is the only recommended management for adolescents with ASC-US. Only those whose smears are classified as high-grade squamous intraepithelial lesions (HSIL) or higher on repeat cytology should be referred for colposcopy at the 12-month follow-up. At the 24-month follow-up, those with smears classified as ASC-US or higher should be referred for colposcopy (AII). HPV DNA testing is inappropriate for adolescents, and LEEP is not recommended at any age for women with ASC-US.
E) Loop electrical excisional procedure (LEEP) <b>09-125.</b> +Ref+Cfp. Women should be tested for human papillomavirus (HPV) DNA A) every year, when a Papanicolaou (Pap) test is performed B) every 2 years, when a Pap test is performed C) prior to receiving HPV vaccine (Gardasil) D) when a Pap smear shows ASC-US E) when genital warts are noted	HPV. <b>09-125.</b> Human papillomavirus (HPV) DNA testing is useful for determining whether colposcopy is needed in patients whose Papanicolaou (Pap) test shows aytpical squamous cells of undetermined significance (ASCUS). <b>ANS=D</b> . Women with a negative result for high-risk HPV can be safely followed without colposcopy. Some recent studies suggest that screening HPV DNA testing for women in their thirties may be useful, most likely as a replacement for Pap smears; however, this is in the preliminary stages of study. Younger women would not benefit from screening for HPV DNA because it would identify the very large number of young women who have a transient infection. The addition of HPV DNA testing to Pap smears at currently recommended intervals would not change management. The presence or absence of HPV DNA does not alter the indications for HPV vaccine, because patients with or without HPV are candidates for vaccination. The vaccine protects against HPV strains that the patient may not have contracted. Genital warts are caused by HPV, usually a low-risk strain, so testing for HPV in patients with this problem does not provide useful information.
<ul> <li>10-236. +Ref+Adm.&gt;L* The condition shown in Figure 4 occurred in a 31-year-old sexually active male. Which one of the following is true regarding this problem?</li> <li>A) Diagnosis by biopsy and viral typing is recommended</li> <li>B) Acetowhite staining is indicated to accurately map margins prior to treatment</li> <li>C) Treatment with 5% fluorouracil cream (Efudex) is effective and safe</li> <li>D) Treatment has a favorable impact on the incidence of cervical and genital cancer</li> <li>E) HPV testing is indicated for this patient's sexual partners</li> </ul>	HPV. 10-236. Genital warts are typically caused by human papillomavirus (HPV) types 5 and 11, which are rarely associated with invasive squamous cell carcinoma. ANS=E. In general, chemical treatments are more effective on soft, moist, nonkeratinized genital lesions, while physical ablative treatments are more effective for keratinized lesions. Diagnosis by biopsy and viral typing is no longer recommended. Acetowhite staining has not been shown to favorably affect the course or treatment of HPV-associated genital warts. Topical 5% fluorouracil cream has been associated with severe local reactions and teratogenicity, and is no longer recommended. Treatment of genital warts has not been shown to reduce the incidence of cervical or genital cancer.
<b>08-233.</b> +Int+Adm. A 27-year-old female office worker presents with the inflamed lesion shown in. She is in good health otherwise and takes only iron supplements and oral contraceptives. She has not had any recent illnesses, but she states that she may have had a similar lesion as a teenager. Which one of the following is the most likely diagnosis? A) Orf virus infection B) Herpes simplex C) Herpes zoster nasociliary infection D) Staphylococcal infection E) Contact dermatitis from cosmetics	HSV-1. <b>08-233.</b> Although the consequences of nasal (or facial) staphylococcal lesions demand that they receive careful evaluation and culture, most lesions in this area of the face are related to HSV-1 infections. <b>ANS=B.</b> The painful grouped vesicles on an erythematous base indicate a viral infection, likely HSV-1. Herpes zoster would be unlikely because the lesion involves only the distal nose area without other lesions, and symptoms would be unlikely. The appearance of staphylococcal infection would be quite different, contact dermatitis would be more widespread, and orf virus is a sheep-related virus usually seen on the hands.

## Mario's ITE database V2010.007

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<b>08-085.</b> +Rem+Cca. During a well child examination of a healthy-appearing 4- week-old white male born at term, his mother questions you about a prominence in the left side of his scrotum, which she has noted since his baths were begun. Your physical examination reveals an oblong, nontender, nonreducible, light- transmitting mass closely adhered to or involving the testis. You should recommend which one of the following? A) Further observation B) Sterile aspiration of the mass C) Immediate surgery D) Surgery in 3–4 months	Hydrocele. <b>08-085.</b> Hydrocele of the tunica vaginalis testis occurs frequently at birth but usually resolves in a few weeks or months. <b>ANS=A.</b> No treatment is indicated during the first year of life unless there is a clinically evident hernia. A simple scrotal hydrocele without communication with the peritoneal cavity and no associated hernia should be excised if it has not spontaneously resolved by the age of 12 months. Aspirating the mass for diagnostic or therapeutic reasons is not recommended, since a loop of bowel may be injured; removing the fluid is ineffective.
<b>07-129.</b> +End+Cfp. Which one of the following is the most common cause of hyperandrogenism in women? A) Acromegaly B) Carcinoma of the ovary C) Congenital adrenal hyperplasia D) Cushing's syndrome E) Polycystic ovary syndrome	Hyperaldosteronism. <b>07-129.</b> Hyperandrogenism is caused by polycystic ovary syndrome in at least 75% of cases. <b>ANS=E</b> . This diagnosis is made when there is otherwise unexplained chronic hyperandrogenism and oligo-ovulation or anovulation. Women with polycystic ovary syndrome should also be evaluated for glucose intolerance and the metabolic syndrome. Congenital adrenal hyperplasia is present in 2% of women with hyperandrogenism; androgen-secreting tumors are seen in 0.2%, with more than half being malignant. Cushing's syndrome and acromegaly are other infrequent causes of androgen excess.
<ul> <li>10-073. +End+Adm.?* A 46-year-old female presents to your office for follow-up of elevated blood pressure on a pre-employment examination. She is asymptomatic, and her physical examination is normal with the exception of a blood pressure of 160/100 mm Hg. Screening blood work reveals a potassium level of 3.1 mEq/L (N 3.7–5.2). You consider screening for primary hyperaldosteronism. Which one of the following tests is recommended to screen for this condition?</li> <li>A) 24-hour urine aldosterone levels</li> <li>B) An ACTH infusion test</li> <li>C) Adrenal venous sampling</li> <li>D) CT of the abdomen</li> <li>E) A serum aldosterone-to-renin ratio</li> </ul>	Hyperaldosteronism. <b>10-073.</b> Primary hyperaldosteronism is relatively common in patients with stage 2 hypertension (160/100 mm Hg or higher) or treatment-resistant hypertension. <b>ANS=E.</b> It has been estimated that 20% of patients referred to a hypertension specialist suffer from this condition. Experts recommend screening for this condition using a ratio of morning plasma aldosterone to plasma renin. A ratio >20:1 with an aldosterone level >15 ng/dL suggests the diagnosis. The level of these two values is affected by several factors including medications (especially most blood pressure medicines), time of day, position of the patient, and age. Patients who are identified as possibly having this condition should be referred to an endocrinologist for further confirmatory testing
<b>07-012.</b> +End+Adm. The initial step in the management of hypercalcemia of malignancy should be A) fluid restriction B) bisphosphonates intravenously C) phosphate depletion D) aggressive rehydration E) diuresis with furosemide (Lasix)	Hypercalcemia. <b>07-012.</b> Hypercalcemia of malignancy should be treated initially with aggressive rehydration, followed by diuresis with furosemide, phosphorus replacement if hypophosphatemia is present, and intravenous bisphosphonates. <b>ANS=D.</b> Adjunctive therapies include dialysis, glucocorticoids, calcitonin, plicamycin, and gallium nitrate.
<b>09-036.</b> +End+Adm. A 56-year-old male with a history of nephrolithiasis presents with a complaint of right flank pain. Further evaluation reveals a right ureteral calculus 4 mm in diameter. Laboratory tests reveal a serum calcium level of 12.1 mg/dL (N 8.5–10.5), a normal albumin level, and normal kidney and liver function tests. The patient takes no chronic medications. Which one of the following is most likely to reveal the cause of this patient's elevated calcium? A) A 24-hour urine calcium level B) A repeat serum calcium level in 4–6 weeks C) A serum 25-hydroxyvitamin D level D) A serum calcitonin level E) A serum intact parathyroid hormone level.	Hypercalcemia. 09-036. Ans=E. Primary hyperparathyroidism and malignancy are the most common causes of hypercalcemia, accounting for about 90% of cases. An intact parathyroid hormone (PTH) level should be obtained initially, as the results will indicate what kind of additional evaluation i needed. Vitamin D and urine calcium studies are useful in evaluating hypercalcemia, but a PTH level should be obtained first. It would not be appropriate to wait for a repeat calcium level in 4–6 weeks, because this patient has nephrolithiasis and a calcium level ≥□ 12 mg/dL, indicating a possible need for surgery or perhaps a malignancy. Calcitonin levels generally are not necessary in the evaluation of hypercalcemia. <u>UpToDate:</u> In the presence of low serum <b>PTH concentrations</b> (<20 pg/mL), parathyroid hormone-related peptide ( <b>PTHrp</b> ) and vitamin D metabolites should be measured to assess for hypercalcemia of malignancy and vitamin D intoxication. If PTHrp and vitamin D metabolites are also low, another source for the hypercalcemia must be considered. Additional laboratory data (including serum protein electrophoresis for possible multiple myeloma, TSH, vitamin A) will often lead to the correct diagnosis.
<b>09-051.</b> +End+Adm. Which one of the following is the best INITIAL management for hypercalcemic crisis? A) Intravenous furosemide B) Intravenous pamidronate (Aredia) C) Intravenous plicamycin (Mithramycin) Copyrighted Material. ITE Personal Notes. Not for Sale. receive."	Hypercalcemia. <b>09-051.</b> Hypercalcemic crisis. <b>ANS=D.</b> The <b>initial management</b> of hypercalcemic crisis involves <b>volume repletion and hydration</b> . The combination of inadequate fluid intake and the inability of hypercalcemic patients: Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
D) Intravenous saline 07-204. +End+Adm. An asymptomatic 38-year-old white male takes lisinopril	to conserve free water can lead to calcium levels over 14–15 mg/dL. Because patients often have a fluid deficiency of 4–5 liters, delivering 1000 mL of normal saline during the first hour, followed by 250–300 mL/hour, may decrease the hypercalcemia to less than critical levels (<13 mg/dL). If the clinical status is not satisfactory after hydration alone, then renal excretion of calcium can be enhanced by saline diuresis using furosemide. Intravenous pamidronate, a diphosphonate, reduces the hypercalcemia of malignancy and is best used in the semi-acute setting, since calcium levels do not start to fall for 24 hours. The same is true for intravenous plicamycin. Hyperkalemia. 07-204. <u>Pseudo-hyperkalemia is most commonly caused by</u>
<ul> <li>(Prinivil, Zestril) for hypertension. At a routine follow-up visit you order a basic metabolic profile. The results are normal except for a serum potassium level of 6.3 mEq/L (N 3.5–5.0). Which one of the following should you do at this point?</li> <li>A) Order another serum potassium level but make sure the patient repeatedly clenches his fist during the phlebotomy</li> <li>B) Order another metabolic profile but make sure the sample stands for several hours before being centrifuged</li> <li>C) Reassure the patient that the potassium elevation is likely due to a laboratory error and disregard the result</li> <li>D) Temporarily discontinue the lisinopril and order a repeat potassium level</li> </ul>	<b>Ivsis of red cells released from platelets in clotted serum</b> . <b>ANS=D.</b> Clenching the fist repeatedly can aggravate red cell damage. As the patient is on an <u>ACE</u> inhibitor that can raise potassium levels, reassurance without investigation would not be appropriate. A plasma potassium level does not reflect potassium released from cells damaged by phlebotomy.
<ul> <li>08-058. +End+Adm. A 75-year-old female is admitted to the hospital with a change in mental status. The initial workup includes a chemistry profile that reveals a plasma potassium level of 6.4 mEq/L (N 3.7–5.2). Which one of the following should be given now to rapidly lower the plasma potassium level?</li> <li>A) Corticosteroids</li> <li>B) Albuterol</li> <li>C) Furosemide (Lasix)</li> <li>D) 0.45% saline</li> </ul>	Hyperkalemia. <b>08-058.</b> Severe hyperkalemia (>6.0 mEq/L) requires aggressive treatment. <b>ANS=B.</b> Calcium gluconate has no effect on the plasma potassium level, but it should be given first, as it rapidly stabilizes the membranes of cardiac myocytes, reducing the risk of cardiac dysrhythmias. Therapies that translocate potassium from the serum to the intracellular space should be instituted next, as they can quickly (albeit temporarily) lower the plasma concentration of potassium. These interventions include sodium bicarbonate, glucose with insulin, and albuterol. Total body potassium can be lowered with sodium plystyrene sulfonate, but this takes longer to affect the plasma potassium level than translocation methods. In the most severe cases, acute hemodialysis can be instituted.
<ul> <li>08-070. +End+Adm. A 59-year-old male reports nausea, vomiting, and progressive fatigue for the past few months. At his last visit, 6 months ago, his blood pressure was poorly controlled and hydrochlorothiazide was added to his B-blocker therapy. At this visit he appears moderately dehydrated on examination. Laboratory testing reveals a serum calcium level of 12.5 mg/dL (N 8.0–10.0), a BUN level of 36 mg/dL (N 6–20), and a creatinine level of 2.2 mg/dL (N 0.6–1.1). A CBC, albumin level, and electrolyte levels are normal. His intact parathyroid hormone level is reported a few days later, and is 60 pg/mL (N 10–65). What is the most likely cause of his hypercalcemia?</li> <li>A) Renal failure</li> <li>B) Hyperparathyroidism</li> <li>C) Milk alkali syndrome</li> <li>D) Sarcoidosis</li> </ul>	Hyperparathyroidism. 08-070. ANS=B. Many patients have mild hyperparathyroidism that becomes evident only with an added calcium load. Thiazide diuretics reduce calcium excretion and can cause overt symptoms in a patient whose hyperparathyroidism would otherwise have remained asymptomatic. The finding of a normal parathyroid hormone (PTH) level in a patient with hypercalcemia is diagnostic for hyperparathyroidism, since PTH should be suppressed in the presence of elevated calcium. Symptomatic hypercalcemia causes dehydration because of both intestinal symptoms and diuresis. Reversible renal insufficiency can result, and can become permanent if it is long-standing and severe. Conversely, renal failure usually causes hypocalcemia, but can cause hypercalcemia resulting from tertiary hyperparathyroidism. This develops after severe hyperphosphatemia and vitamin D deficiency eventually produce hypersecretion of PTH. This patient's renal insufficiency is not severe enough to cause tertiary hyperparathyroidism. Milk alkali syndrome is hypercalcemia resulting from a chronic overdose of calcium carbonate, and is becoming more common as more patients take calcium and vitamin D supplements. In milk alkali syndrome, and other <u>causes of hypercalcemia such as sarcoidosis, the PTH level is appropriately</u> suppressed.
<ul> <li>08-202. +End+Adm. A 35-year-old male with a previous history of kidney stones presents with symptoms consistent with a recurrence of this problem. The initial workup reveals elevated serum calcium. Which one of the following tests would be most appropriate at this point?</li> <li>A) Serum calcitonin</li> <li>B) 24-hour urine for calcium and phosphate</li> <li>C) Serum phosphate and magnesium</li> <li>D) Serum parathyroid hormone</li> <li>E) Spot urine for microalbumin</li> </ul>	Hyperparathyroidism. <b>08-202.</b> A patient with a recurrent kidney stone and an elevated serum calcium level most likely has hyperparathyroidism, and a parathyroid hormone (PTH) level would be appropriate. <b>ANS=D.</b> Elevated PTH is caused by a single parathyroid adenoma in approximately 80% of cases. The resultant hypercalcemia is often discovered in asymptomatic persons having laboratory work for other reasons. An elevated PTH by immunoassay confirms the diagnosis. In the past, tests based on renal responses to elevated PTH were used to make the diagnosis. These included blood phosphate, chloride, and magnesium, as well as urinary or nephrogenous cyclic adenosine monophosphate. These tests are not specific for this problem, however, and are therefore not cost-effective. Serum calcitonin levels have no practical clinical use.
<ul> <li>09-175. +End+Cca. A 14-year-old female sees you for follow-up after hypercalcemia is found on a chemistry profile obtained during a 5-day episode of vomiting and diarrhea. She is now asymptomatic, but her serum calcium level at this visit is 11.0 mg/dL (N 8.5–10.5). Her aunt underwent unsuccessful parathyroid surgery for hypercalcemia a few years ago. Which one of the following laboratory findings would suggest a diagnosis other than primary hyperparathyroidism? A) Low 24-hour urine calcium B) Decreased serum phosphate C) High-normal to increased serum chloride D) Elevated alkaline phosphatase E) Elevated parathyroid hormone</li> <li>10-027. +End+Adm. A 61-year-old female is found to have a serum calcium level</li> </ul>	<ul> <li>Hyperparathyroidism. 09-175. ANS=A. Low urine 24-hour calcium levels or a low urine calcium to urine creatinine ratio is not characteristic of hyperparathyroidism. This finding should suggest familial hypocalciuric hypercalcemia (SOR C). Awareness of this condition is important to avoid unnecessary surgery. The parathyroid hormone level may be mildly elevated. Parathyroid hormone is elevated in hyperparathyroidism. Serum chloride tends to be high normal or mildly elevated. Alkaline phosphatase may be elevated in more severe cases, while serum phosphate levels tend to be low.</li> <li>Hyperparathyroidism. 10-027. Primary. ANS=A. Primary hyperparathyroidism</li> </ul>
10-027. +End+Adm. A 61-year-old female is found to have a serum calcium level of 11.6 mg/dL (N 8.6–10.2) on routine laboratory screening. To confirm the hypercalcemia you order an ionized calcium level, which is 1.49 mmol/L (N 1.14– 1.32). Additional testing reveals an intact parathyroid hormone level of 126 pg/mL (N 15–75) and a urine calcium excretion of 386 mg/24 hr (N Copyrighted Material. ITE Personal Notes. Not for Sale. Page 79 of 170	Hyperparathyroidism. <b>10-027.</b> Primary. <b>ANS=A.</b> Primary hyperparathyroidism and malignancy account for more than 90% of hypercalcemia cases. These conditions must be differentiated early to provide the patient with optimal treatment and an accurate prognosis. Humoral hypercalcemia of malignancy implies a very limited life expectancy—often only a matter of weeks. On the other Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
100–300). Which one of the following is the most likely cause of the patient's	hand, primary hyperparathyroidism has a relatively benign course. Intact
hypercalcemia?	parathyroid hormone (PTH) will be suppressed in cases of malignancy-associated
A) Primary hyperparathyroidism	hypercalcemia, except for extremely rare cases of parathyroid carcinoma.
B) Malignancy	Thyrotoxicosis-induced bone resorption elevates serum calcium, which also
C) Familial hypocalciuric hypercalcemia	results in suppression of PTH. Patients with familial hypocalciuric hypercalcemia
D) Hypoparathyroidism	(FHH) have moderate hypercalcemia but relatively low urinary calcium excretion.
E) Hyperthyroidism	PTH levels can be normal or only mildly elevated despite the hypercalcemia. This
	mild elevation can lead to an erroneous diagnosis of primary hyperparathyroidism.
	The conditions can be differentiated by a 24-hour urine collection for calcium;
	calcium levels will be high or normal in patients with hyperparathyroidism and
07.024 Cont Adm Which are of the following would be most likely to bluet the	low in patients with FHH. Hypertension. <b>07-034.</b> Many medications interfere with the absorption,
<b>07-034.</b> +Car+Adm. Which one of the following would be most likely to blunt the antihypertensive effects of an ACE inhibitor?	metabolism, and pharmacologic action of ACE inhibitors. Of the choices given,
A) Allopurinol (Zyloprim)	the one most likely to do this is ibuprofen, a commonly used NSAID. ANS=B.
B) Ibuprofen	<b>Ibuprofen (or other NSAIDs) may blunt the antihypertensive effects of an</b>
C) Chlorpromazine	ACE inhibitors. Uptodate: Nonselective (ie, non-COX-2 selective) nonsteroidal
D) Triamterene (Dyrenium)	antiinflammatory drugs (NSAIDs) may have several adverse effects on the
	cardiovascular system, including interference with the beneficial antiplatelet
	activity of aspirin, an increase in cardiovascular events, and exacerbation of
<u>Uptodate:</u>	<u>heart failure.</u>
•Nonselective NSAIDs should be avoided in patients with an acute myocardial	All nonsteroidal antiinflammatory drugs (NSAIDs) in doses adequate to reduce
infarction, unstable angina, or heart failure, and during the perioperative period in	inflammation and pain can increase blood pressure in both normotensive and
patients undergoing coronary artery bypass graft surgery.	hypertensive individuals [1]. The average rise in blood pressure is 3/2 mmHg
•Nonselective NSAIDs should be used with caution in patients with hypertension or manifestations of cardiovascular disease other than those listed in the preceding	but varies considerably [2]. In addition, <u>NSAID use may reduce the effect of all</u>
or manifestations of cardiovascular disease other than those listed in the preceding paragraph. If given, they should be used at the lowest effective dose and for the	antihypertensive drugs except calcium channel blockers [3]. These effects may contribute to the increase in cardiovascular risk associated with the selective
shortest duration necessary for the given indication.	COX-2 inhibitors [4]. The <b>prohypertensive effect is dose-dependent and</b>
•Naproxen is preferred for patients with known cardiovascular disease or	probably involves inhibition of cyclooxygenase-2 (COX-2) in the kidneys,
increased cardiovascular risk who require treatment with a nonselective NSAID	which reduces sodium excretion and increases intravascular volume [3]. In
[31]. Diclofenac should be AVOIDED because of a possible increase in	the doses used, aspirin has no COX-2-inhibiting or prohypertensive effects, and
cardiovascular risk.	low dose aspirin does not interfere with the efficacy of antihypertensive drugs
•There are insufficient data to guide NSAID usage in patients at low risk of	[5]. Acetaminophen produces its analgesic effect by inhibiting the same
cardiovascular disease, in whom the absolute increase in risk of adverse	cyclooxygenase, prostaglandin H2 synthase, that is the target of NSAID and
cardiovascular events (if any) from use of nonselective NSAIDs is likely to be	aspirin [6]. However, acetaminophen blocks this enzyme at its peroxidase
small. The author prefers to use naproxen or ibuprofen at the lowest effective dose	catalytic rather than at the cyclooxygenase catalytic site. Therefore, the
in such patients.	acetaminophen-mediated inhibition is sensitive to changes in the tissue peroxide
http://cmbi.bjmu.edu.cn/: "Patients with treated hypertension or congestive heart failure (CHF) may have elevated levels of angiotensin II and	levels; higher concentrations of peroxide in activated leukocytes and platelets block the effect of acetaminophen on inflammation and platelet thrombosis.
norepinephrine. These vasoconstrictors increase the release of vasodilator	However, acetaminophen is able to inhibit prostaglandins in the central nervous
prostaglandins from the kidney, which act locally to minimize the degree of renal	system, thus providing relief of pain and fever. Therefore, acetaminophen is not
ischemia. When this compensatory response is inhibited by a nonsteroidal	an NSAID or anti-thrombotic agent.
antiinflammatory drug (NSAID), the increase in renal and systemic vascular	
resistance can have three deleterious hemodynamic effects: acute renal failure; an	
elevation in blood pressure (BP); and worsening of CHF."	
07-057. +Car+Adm. According to the Seventh Report of the Joint National	Hypertension. 07-057. JNC-7 recommendations for treating hypertension are
Committee on Prevention, Detection, Evaluation, and Treatment of High Blood	similar in the general population and in older persons. <b>ANS=D.</b> The key points
Pressure (JNC-7), which one of the following should be first-line treatment for	include the recommendation to treat isolated systolic blood pressure, and that
otherwise healthy older adults with hypertension?	thiazide diuretics should be first-line treatment. Thiazide diuretics should be
A) ACE inhibitors	first-line treatment for otherwise healthy older adults with hypertension.
B) B-Blockers C) Calcium channel blockers	
D) Thiazide diuretics	
E) A-Blockers	
<b>07-123.</b> +Car+Cca. The most common cause of hypertension in adolescents is A)	Hypertension. 07-123. In children and adolescents; ANS=B. Primary or
Cushing's syndrome B) essential hypertension C) hyperthyroidism D)	essential hypertension accounts for 85%–95% of adolescent cases (But, <u>Although</u>
pheochromocytoma E) renal disease	essential hypertension is most common in adolescents and adults, it is rarely
	found in children less than 10 years old, where the most common cause of
	hypertension is renal parenchymal disease).
<b>07-152.</b> +Car+Adm. An asymptomatic 60-year-old male who has a history of	Hypertension. 07-152. Regression of left ventricular hypertrophy is an
hypertension comes to your office for the first time. He has not taken	important therapeutic target, as successful treatment significantly reduces
antihypertensive medication in over a year and cannot recall the name of the drug	<b><u>cardiovascular events</u></b> . <b>ANS=E.</b> Optimal blood pressure control is the goal, but it
prescribed. His examination is unremarkable. A CBC, urinalysis, and chemistry	appears that the most helpful drugs in this setting would be an ACE inhibitor,
profile are all normal. His blood pressure is 159/92 mm Hg. An EKG shows a sinus rhythm, but is compatible with left ventricular hypertrophy. An	a thiazide diuretic, a B-blocker, or an angiotensin receptor blocker (ARB). If low-dose thiazide monotherapy fails to attain goal blood pressure in
echocardiogram confirms this finding. Which one of the following would be most	uncomplicated hypertensives, an ACE inhibitor/ARB, beta-blocker, or
appropriate for the management of this patient's hypertension?	calcium channel blocker can be sequentially added or substituted. Most often
A) Hydralazine	an ACE inhibitor/ARB, which acts synergistically with a diuretic, is used.
B) Minoxidil	Amlodipine (Norvasc): a Calcium channel blockers. Like beta-blockers, they
C) Doxazosin (Cardura)	can be given for rate control in patients with atrial fibrillation or for control
D) Amlodipine (Norvasc)	of angina. Calcium channel blockers may be preferred in obstructive airways
E) Lisinopril (Prinivil, Zestril)	disease. Minoxidil (Rogaine) is an antihypertensive vasodilator medication also
	claimed to slow or stop hair loss and promote hair regrowth.
<b>07-183.</b> +Car+Csp. A 65-year-old nonsmoker is scheduled to undergo right knee	Hypertension. 07-183. B-blockers in patients undergoing surgery. ANS=E.
replacement. His cardiac history is negative, and he takes aspirin, 81 mg/day, to prevent cardiovascular problems. He also takes simvastatin (Zocor), 20 mg/day,	American College of Cardiology/ American Heart Association (ACC/AHA) guidelines recommend continuing B-blockers in patients undergoing surgery who

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
for hypercholesterolemia, and metoprolol (Lopressor), 25 mg twice daily, for hypertension. His body mass index (BMI) is 26 kg/m2, his heart rate is 60 beats/min, and his blood pressure is controlled. Which one of the following is the best recommendation regarding metoprolol?	take them for angina, symptomatic arrhythmias, hypertension, or other ACC/AHA Class I indications.
<ul><li>A) Withhold 12 hours before and after surgery</li><li>B) Withhold 24 hours before and after surgery</li><li>C) Withhold 48 hours before and after surgery</li></ul>	
<ul><li>D) Withhold the day of surgery and restart it the next morning</li><li>E) Continue the drug on his regular schedule when he has surgery</li></ul>	
<ul> <li>08-019. +Car+Adm. A 60-year-old African-American female has a history of hypertension that has been well controlled with hydrochlorothiazide. However, she has developed an allergy to the medication. Successful monotherapy for her hypertension would be most likely with which one of the following?</li> <li>A) Lisinopril (Prinivil, Zestril)</li> <li>B) Hydralazine (Apresoline)</li> <li>C) Clonidine (Catapres)</li> <li>D) Atenolol (Tenormin)</li> <li>E) Diltiazem (Cardizem)</li> </ul>	Hypertension. <b>08-019.</b> Monotherapy for hypertension in African-American patients is more likely to consist of diuretics or calcium channel blockers than B-blockers or ACE inhibitors. It has been suggested that hypertension in African-Americans is not as angiotensin II–dependent as it appears to be in Caucasians. <b>ANS=E.</b>
<ul> <li><b>08-090.</b> +Car+Cel. A 68-year-old female has an average blood pressure of 150/70 mm Hg despite appropriate lifestyle modification efforts. Her only other medical problems are osteoporosis and mild depression. The most appropriate treatment at this time would be</li> <li>A) lisinopril (Prinivil, Zestril)</li> <li>B) clonidine (Catapres)</li> <li>C) propranolol (Inderal)</li> <li>D) amlodipine (Norvasc)</li> <li>E) hydrochlorothiazide</li> </ul>	Hypertension. <b>08-090. Elderly. ANS=E.</b> Randomized, placebo-controlled trials have shown that isolated systolic hypertension in the elderly responds best to diuretics, and to a lesser extent B-blockers. Diuretics are preferred, although long-acting dihydropyridine calcium channel blockers may also be used. In the case described, B-blockers or clonidine may worsen the depression. Thiazide diuretics may also improve osteoporosis, and would be the most cost-effective and useful agent in this instance. Clonidine: Stimulates alpha-2 adrenergic receptors (centrally-acting antihypertensive); epidural clonidine prevents pain signal transmission to the brain, producing analgesia at spinal presynaptic and postjunctional alpha-2 adrenergic receptors.
<b>08-128.</b> +Car+Euc. A 79-year-old male presents with left-sided hemiparesis. His previous medical history is significant for long-standing hypertension and type 2 diabetes mellitus. On examination his blood pressure is 220/130 mm Hg and his pulse rate is 96 beats/min. CT of the head shows no acute bleeding. An EKG shows left ventricular hypertrophy with diffuse nonspecific changes. Which one of the following would be most appropriate with regard to his blood pressure at this time?	Hypertension. <b>08-128. Hypertensive urgency. ANS=B.</b> Cautious reduction of systolic blood pressure by 10%–15% while monitoring neurologic status seems to be the safest treatment goal in the setting of acute ischemic stroke when the systolic blood pressure is >220 mmHg or the diastolic blood pressure is 120–140 mm Hg. According to JNC-7, more aggressive blood pressure reduction may increase cerebrovascular complications.
<ul> <li>A) Watchful waiting</li> <li>B) Reduction of systolic blood pressure (SBP) to 190 mm Hg</li> <li>C) Reduction of SBP to 170 mm Hg</li> <li>D) Reduction of SBP to 150 mm Hg</li> <li>E) Reduction of SBP to 130 mm Hg</li> </ul>	Note: Hypertensive urgency is defined as severe hypertension without symptoms. Severe hypertension is defined as systolic blood pressure 180 mmHg and/or diastolic blood pressure 120 mmHg.When hypertension of this degree is asymptomatic with no acute signs of end-organ damage it is designated hypertensive urgency.
<ul><li>08-214. +Car+Cc. Which one of the following is the most common cause of hypertension in children under 6 years of age?</li><li>A) Essential hypertension</li><li>B) Pheochromocytoma</li></ul>	Hypertension. 08-214. In children < 10 y/o. ANS=C. <u>Although essential</u> <u>hypertension is most common in adolescents and adults, it is rarely found in</u> <u>children less than 10 years old</u> and should be a diagnosis of exclusion. <u>The most</u> <u>common cause of hypertension is renal parenchymal disease, and a urinalysis.</u>
C) Renal parenchymal disease D) Hyperthyroidism E) Excessive caffeine use	<u>urine culture, and renal ultrasonography should be ordered for all children</u> <u>presenting with hypertension</u> . Other secondary causes, such as pheochromocytoma, hyperthyroidism, and excessive caffeine use, are less common, and further testing and/or investigation should be ordered as clinically indicated.
<b>09-048.</b> +Car+Adm. A 59-year-old white female has a blood pressure consistently at or above 140/90 mm Hg. Her only other significant medical problem is diabetes mellitus, which is controlled by diet. Which one of the following is the most clearly established advantage of angiotensin receptor blockers (ARBs) when compared with ACE inhibitors in patients such as this? A) Reduced risk of persistent cough B) Reduced risk of headache C) Reduced risk of heart failure D) Improved control of blood pressure E) Improved lipid profile	Hypertension. 09-048. ACE inhibitors and ARBs. Ans=A. In multiple studies, angiotensin receptor blockers (ARBs) have been shown to be less likely to cause a chronic cough when compared with ACE inhibitors. Although this is not a life-threatening danger, it is a side effect that can be persistent and lead to discontinuation of medication. Angioedema, a more dangerous side effect, was thought to be ACE-inhibitor specific. However, it is rare and there is not yet good evidence that ARBs are safer. There have been case reports of angioedema associated with ARB use. The incidence of headache is similar for the two drug classes. ARBs have not been proven superior to ACE inhibitors in blood pressure control, effects on lipid profiles, or prevention of heart failure, and there is substantially more data on ACE inhibitors for the prevention of heart failure and proteinuria.
<b>09-059.</b> +Car+Adm. Which one of the following antihypertensive drugs is most likely to cause ankle edema? A) Hydrochlorothiazide B) Amlodopine (Norvasc) C) Lisinopril (Prinivil, Zestril) D) Losartan (Cozar) E) Atenolol (Tenormin)	Hypertension. 09-059. Antihypertensive drugs, calcium channel blockers. ANS=B. The most common side effects of calcium channel blockers, such as amlodipine, are due to vasodilation. One result of this may be peripheral edema, but it can also cause dizziness, nausea, hypotension, cough, and pulmonary edema. These problems may decrease with time, with reductions in dosage, or with the addition of a diuretic or second calcium antagonist. Other classes of drugs are not associated with these problems.
<ul> <li>10-063. +Car+Cel. An 82-year-old male presents to your office because his blood pressure has been "high" when taken by a friend on several occasions. His blood pressure in your office is 173/94 mm Hg, which is similar to the levels his friend recorded. The history and physical examination are otherwise unremarkable, and a CBC, metabolic panel, and urinalysis are normal. Which one of the following is most consistent with current evidence?</li> <li>A) This patient's mortality will not be affected by treatment of his hypertension</li> </ul>	Hypertension. <b>10-063.</b> Systolic and diastolic treatment. <b>ANS=C.</b> Studies have shown that the treatment of systolic and diastolic hypertension, especially with thiazide diuretics, with or without an ACE inhibitor, reduces stroke, heart failure, and death from all causes. Such treatment is effective in both sexes.
Convrighted Material ITE Personal Notes Not for Sale	Mario A. Iimenez, M.D., B.S.F.F. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
B) Treating this patient with an ARB for hypertension would be ineffective and	
dangerous C) Treatment with a thiazide diuretic will lower this patient's risk of death	
D) In this age group, treatment of hypertension in males does not reduce stroke	
and heart failure as it does in females	
<ul> <li>10-153. +Car+Adm. A 59-year-old white male is being evaluated for hypertension. His blood pressure is 150/95 mm Hg. His medical history includes impotence, asthma, gout, first degree heart block, diet-controlled diabetes mellitus, and depression, but he is currently taking no medications. He has a past history of alcohol abuse, but quit drinking 10 years ago. Which one of the following would be the best choice for INITIAL therapy of his hypertension? A) Propranolol (Inderal)</li> <li>B) Verapamil (Calan, Isoptin)</li> <li>C) Clonidine (Catapres)</li> <li>D) Hydrochlorothiazide/triamterene (Dyazide)</li> <li>E) Enalapril (Vasotec)</li> </ul>	Hypertension. <b>10-153. Medication. ANS=E.</b> Because of their favorable side- effect profile, ACE inhibitors (e.g., enalapril) may be the drugs of first choice for the majority of unselected hypertensive patients. ACE inhibitors are not associated with depression or sedation, and they are safe to use in patients with diabetes mellitus. Centrally-acting a-blockers can be associated with depression. Calcium- channel blockers, B-blockers, and other sympatholytic drugs affect cardiac conductivity. B-Blockers are contraindicated in patients with asthma, and are also associated with impotence. Thiazide diuretics raise uric acid and blood glucose levels.
<b>10-178P.</b> +Car+Adm>L <b>?</b> * You see a 68-year-old mechanic for a routine	Hypertension. 10-178. Resistant or refractory. ANS=B. Resistant or refractory
<ul> <li>evaluation. He has a 2-year history of hypertension. His weight is normal and he adheres to his medication regimen. His current medications are metoprolol (Lopressor), 100 mg twice daily; olmesartan (Benicar), 40 mg/day; and hydrochlorothiazide, 25 mg/day. His serum glucose levels have always been normal, but his lipid levels are elevated. A physical examination is unremarkable except for an enlarged prostate and a blood pressure of 150/94 mm Hg. Laboratory studies show a serum creatinine level of 1.6 mg/dL (N 0.6–1.5) and a serum potassium level of 4.9 mmol/L (N 3.5–5.0). The patient's record shows blood pressures ranging from 145/80 mm Hg to 148/96 mm Hg over the past year. Which one of the following would be most appropriate at this point?</li> <li>A) Continue his current management with no changes</li> <li>B) Substitute furosemide (Lasix) for hydrochlorothiazide</li> <li>C) Add clonidine (Catapres)</li> <li>D) Add spironolactone (Aldactone)</li> </ul>	hypertension is defined as a blood pressure ≥140/90 mm Hg, or ≥130/80 mm Hg in patients with diabetes mellitus or renal disease (i.e., with a creatinine level >1.5 mg/dL or urinary protein excretion >300 mg over 24 hours), despite adherence to treatment with full doses of at least three antihypertensive medications, including a diuretic. JNC 7 guidelines suggest adding a loop diuretic if serum creatinine is >1.5 mg/dL in patients with resistant hypertension.
<ul><li>E) Add hydralazine (Apresoline)</li><li>08-079. +End+Mac. A 26-year-old female presents with a 2-month history of</li></ul>	Hyperthyroidism. <b>08-079. ANS=B.</b> Overt hyperthyroidism causes an increase in
amenorrhea, nausea, and fluttering in her chest. The fluttering feels similar to what she experienced 3 years ago when diagnosed with Graves' disease. At that time, she was successfully treated with medication, which she discontinued after 18 months. Current laboratory tests reveal a positive hCG, a TSH of $0.03 \mu$ U/mL (N 0.4–5.0), and a free T4 of 4.0 $\mu$ g/dL (N 0.8–2.0). Which one of the following would be the most appropriate treatment in this situation? A) I ablation 131 B) Propylthiouracil C) Subtotal thyroidectomy D) Methimazole (Tapazole)	neonatal morbidity from preterm birth and low birth weight. Propylthiouracil should be considered the treatment of choice because methimazole may be associated with congenital anomalies. I is contraindicated in pregnancy because of radiation dangers to the fetus, as well 131 as thyroid destruction. Although subtotal thyroidectomy is a viable treatment option, it is recommended only if medical therapy is unsuccessful.
08-210. +End+Adm. A 33-year-old white female presents with tremor and a	Hyperthyroidism. 08-210. ANS: A. The ophthalmopathy of Graves' disease
history of weight loss. On examination she is found to have mild, regular tachycardia and exophthalmos. Laboratory tests confirm hyperthyroidism. Which one of the following treatments has been found to potentially worsen ophthalmopathy? A) Radioactive iodine B) Propylthiouracil C) Methimazole (Tapazole) D) Thyroid hormone replacement plus propylthiouracil E) Thyroidectomy	may initially flare and worsen when treated with radioactive iodine. Antithyroid drugs, including carbimazole, propylthiouracil, and methimazole, are not associated with this problem. The addition of thyroid hormone to these drugs at suppressive doses has not shown any clear benefit over titration of the antithyroid drug, and relapse rates are similar. Thyroid surgery in the controlled patient has not been significantly associated with this problem.
<b>09-076.</b> +End+Cel. A 70-year-old white female comes to your office for an initial	Hyperthyroidism. 09-076. Physiologic. ANS=D. Women older than 65 years of
visit. She has taken levothyroxine (Synthroid), 0.3 mg/day, for the last 20 years. Although a recent screening TSH was fully suppressed at <0.1 :U/mL, she claims that she has felt "awful" when previous physicians have attempted to lower her levothyroxine dosage. You explain that a serious potential complication of her current thyroid medication is A) adrenal insufficiency B) carcinoma of the ovary C) carcinoma of the thyroid D) hip fracture E) renal failure	age who have low serum TSH levels, indicating physiologic hyperthyroidism, are at increased risk for new hip and vertebral fractures. Use of thyroid hormone itself does not increase the risk of fracture if TSH levels are normal.
<b>09-088.</b> +End+Adm. In a patient with symptoms of thyrotoxicosis and elevated free thyroxing $(TA)$ the presence of thyroid TSH recenter site artibodies would	Hyperthyroidism. <b>09-088.</b> Graves' disease. <b>ANS=E.</b> When there is a question
free thyroxine (T4 ), the presence of thyroid TSH receptor site antibodies would indicate which one of the following as the cause of thyroid gland enlargement? A) Toxic multinodular goiter	about the etiology of goiter and thyrotoxicosis, the presence of thyroid TSH receptor immunoglobulins would indicate the presence of Graves' disease, which is considered an autoimmune disease. The prevalence of specific forms of TSH
B) Toxic adenoma C) Hashimato's (lymphadanoid) thyraiditis	receptor site antibodies can distinguish Graves' disease from Hashimoto's disease.
<ul><li>C) Hashimoto's (lymphadenoid) thyroiditis</li><li>D) Subacute (giant cell) thyroiditis</li><li>E) Graves' disease</li></ul>	Both are autoimmune diseases, but in Graves' disease there is a predominance of TSH receptor antibodies. In Hashimoto's disease TSH receptor–blocking antibodies are more predominant. These immunoglobulins tend to disappear during therapy.
<b>09-153.</b> +End+Adm. Which one of the following is known to cause	Hyperthyroidism. 09-153. Amiodarone. ANS=B. Amiodarone is 37% iodine
hyperthyroidism?	and is the most common source of iodine excess in the United States.
A) Propranolol (Inderal) B) Amiodarone (Cordarone)	Excessive iodine intake from dietary sources, radiographic contrast media, or amiodarone increases the production and release of thyroid hormone in iodine-
C) Methimazole (Tapazole) D) Propylthiouracil	deficient individuals and in older persons with multinodular goiter. Additionally, <b>like other medications such as interferon and interleukin-2, amiodarone can</b>
E) Methotrexate (Rheumatrex, Trexall) Copyrighted Material. ITE Personal Notes. Not for Sale. Page 82 of 170	trigger thyroiditis in patients with normal thyroid glands. These Mario A. Jimenez, M.D., B.S.E.E. 'Jesus died for us and teaches us that <i>it is in giving that we</i>

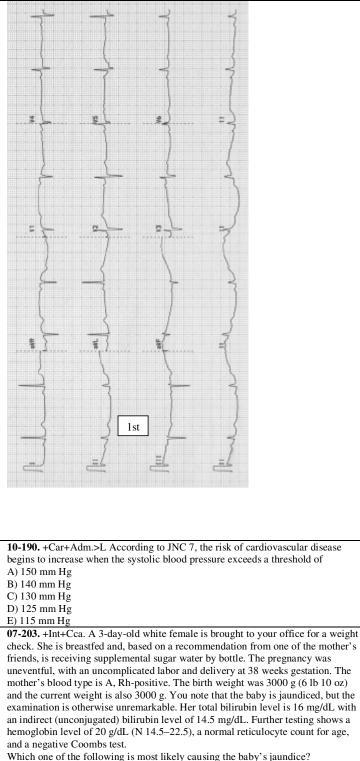
Maria's ITE database V2010.007	Desument complex the color mercenel use of Dr. Marie Alberte Limener
Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez characteristics combine to induce hyperthyroidism in slightly over 10% of patients
	treated with amiodarone. B-Blockers such as propranolol may be useful in controlling the symptoms of hyperthyroidism. Methimazole and propylthiouracil
	interfere with organification of iodine, thereby suppressing thyroid hormone production; they are commonly used as antithyroid agents when treating
	hyperthyroidism. Research is ongoing to determine if methotrexate plus
	prednisone is an effective treatment for the ophthalmopathy associated with Graves' hyperthyroidism.
<b>07-169.</b> +End+Adm. A 38-year-old male is admitted to the hospital because of weakness and is found to have severe hypokalemia. His urinary electrolytes show	Hypomagnesemia. 07-169. ANS=B. Approximately half of hospitalized patients in whom serum electrolytes are ordered have unrecognized hypomagnesemia.
significant potassium wasting. This combination of findings suggests the patient	Many of these patients have hypokalemia and/or hypocalcemia.
also has a significant deficiency of A) aldosterone B) magnesium C) sodium D)	Hypomagnesemia also causes renal potassium wasting, which is refractory to
hydrogen ions E) calcium	potassium replacement until magnesium is replaced.
<b>08-175.</b> +Neu+Adm. Osmotic demyelination can result when which one of the following is corrected too rapidly?	Hyponatremia. <b>08-175. ANS=E.</b> The adaptation that permits survival in chronic hyponatremia also makes the brain vulnerable to injury from overzealous therapy.
A) Hypocalcemia	When hyponatremia is corrected too rapidly, outpacing the brain's ability to
B) Hypoglycemia	recapture lost organic osmolytes, osmotic demyelination can result. Osmotic
C) Hypomagnesemia	demyelination syndrome can usually be avoided by limiting correction of chronic
D) Hypokalemia E) Hyponatremia	hyponatremia to <10–12 mmol/L in 24 hours and to <18 mmol/L in 48 hours.
<b>09-062.</b> +Non+Euc. A 55-year-old male is brought to the emergency department	Hyponatremia. 09-062. ANS=D. This patient has severe hyponatremia
because of confusion and seizures. He has a history of hypertension and	manifested by confusion and seizures, a life-threatening situation warranting
obstructive sleep apnea due to obesity. He is not conscious and no other history is	urgent treatment with hypertonic (3%) saline. The serum sodium level should
available. An examination shows no focal neurologic findings, but a general	<b>be raised by only 1–2 mmol/L per hour</b> , to prevent serious neurologic
examination is limited because of his size. Breath sounds are diminished, and heart sounds are difficult to hear. He has venous insufficiency changes on his	complications. Saline should be used only until the seizures stop. Some authorities recommend concomitant use of furosemide, especially in patients
lower extremities, with brawny-type edema. Laboratory testing reveals a sodium	who are likely to be volume overloaded, as this patient is, but it should not be
level of 116 mmol/L (N 135-145), but normal renal and liver functions. A chest	used alone. The arginine vasopressin antagonist conivaptan is approved for the
radiograph shows mild cardiomegaly. A BNP level is pending, but immediate	treatment of euvolemic or hypervolemic hyponatremia, but not in patients
treatment is felt to be indicated. Which one of the following is the treatment of choice for this patient? A) Valsartan (Diovan) B) Furosemide C) Vasopressin	who are obtunded or in a coma, or who are having seizures.
(Pitressin) D) Hypertonic saline E) Conivaptan (Vaprisol)	
07-163. +End+Euc. A 31-year-old male with type 1 diabetes mellitus is admitted	Hypophosphatemia. 07-163. ANS=A. Symptomatic hypophosphatemia rarely
to the hospital with diabetic ketoacidosis and pneumonia. After initial treatment in	occurs unless serum phosphate levels are below 2.0 mg/dL. Serious
the emergency department with intravenous fluids and insulin, laboratory tests reveal a serum phosphate level of 2.1 mg/dL (N 2.5–5.0). He is asymptomatic	symptoms, including rhabdomyolysis, do not occur until serum phosphate concentrations fall below 1.0 mg/dL. Thus, treatment of hypophosphatemia with
except for related pneumonia symptoms. Which one of the following would be	phosphate levels $\Box 2.0 \text{ mg/dL}$ is targeted at an underlying etiology.
appropriate management of this patient's low serum phosphate level?	Hypophosphatemia in diabetic ketoacidosis cases is related to the internal
A) No therapy	redistribution of phosphate from extracellular fluid during treatment, and
B) Oral phosphate replacement, 2.5–3.5 g/day in divided doses	will resolve when normal dietary intake resumes. Phosphate supplementation
C) Oral phosphate replacement, 2.5–3.5 g/day in divided doses, and oral vitamin D supplementation, 400–800 IU/day	in this setting has not been shown to be beneficial. <u>Intravenous administration</u> of phosphate can be dangerous, resulting in the precipitation of calcium and
D) Intravenous phosphate replacement, 0.08–0.16 mmol/kg over 6 hours	producing the adverse effects of hypocalcemia, renal failure, and possibly
	fatal arrhythmias.
<b>08-186.</b> +Car+Adm. A 65-year-old female develops gram-negative septicemia	Hypotension. <b>08-186.</b> Septicemia. <b>ANS=D.</b> In a patient with sepsis, vasopressors
from a urinary tract infection. Despite the use of fluid resuscitation she remains hypotensive, with a mean arterial pressure of 50 mmHg. Which one of the	are indicated when fluid resuscitation does not restore organ perfusion and blood pressure. Norepinephrine and dopamine currently are the preferred pressor agents;
following would be the most appropriate treatment for this patient?	however, norepinephrine appears to be more effective and has a lower mortality
A) Vasopressin (Pitressin)	rate. Phenylephrine, epinephrine, or vasopressin should not be used as first-line
B) Phenylephrine (Neo-Synephrine)	therapy. Vasopressin is employed after high-dose conventional vasopressors have
C) Epinephrine D) Norepinephrine (Levophed)	failed. The use of low-dose dopamine is no longer recommended based on a clinical trial showing no benefit in critically ill patients at risk for renal failure. If
E) Low-dose dopamine	an agent is needed to increase cardiac output, dobutamine is the agent of choice.
07-201. +End+Mac. A 32-year-old Asian female presents to your office for a 6-	Hypothyroidism. 07-201. Maternal. ANS=B. Women with hypothyroidism who
month follow up for hypothyroidism. She informs you that she is about 8 weeks	become pregnant usually require an increase of up to 40% in their thyroid
pregnant. She currently takes levothyroxine (Synthroid), 100 ug daily. Which one of the following changes should be made to her medication regimen?	<u>maintenance dose</u> . This adjustment must be made early in pregnancy because normal fetal brain development in the first 12 weeks of gestation depends upon
A) Concurrent ferrous sulfate should be added to increase the level of	maternal thyroxine as its source of thyroid hormone. There is strong
levothyroxine	circumstantial evidence that a deficiency of maternal T4 in the first trimester is
B) The dosage of levothyroxine should be increased	associated with lower IQs in the offspring. Concurrent iron supplementation will
C) The dosage of levothyroxine should be decreased	interfere with T4 absorption and should be given at separate times.
<ul> <li>D) Levothyroxine should be discontinued until after delivery</li> <li>08-015. +End+Adm. A 54-year-old female takes levothyroxine (Synthroid), 0.125</li> </ul>	Hypothyroidism. 08-015. Pituitary disease. Although uncommon, pituitary
mg/day, for central hypothyroidism secondary to a pituitary adenoma. The nurse	disease can cause secondary hypothyroidism. ANS=C. The characteristic
practitioner in your office orders a TSH level, which is found to be 0.1 mIU/mL	laboratory findings are a low serum free T4 and a low TSH. A free T4 level is
(N 0.5-5.0). Which one of the following would you recommend? A) Decrease the	needed to evaluate the proper dosage of replacement therapy in secondary
dosage of levothyroxine B) Increase the dosage of levothyroxine	hypothyroidism. The TSH level is not useful for determining the adequacy of thyroid replacement in this case, and the low level would prevent the physician
C) Order a free T4 level	from determining whether the dosage of levothyroxine is appropriate. In the initial
D) Order a TRH stimulation test	evaluation of secondary hypothyroidism, a TRH stimulation test would be useful
E) Repeat the TSH level in 3 months	if TSH failed to rise in response to stimulation. It is not necessary in this case,
<b>08-098.</b> +End+Adm. An asymptomatic 55-year-old male visits a health fair,	since the diagnosis has already been made. Hypothyroidism. <b>08-098.</b> Thyroid disease. <b>08-098.</b> Subclinical. <b>ANS=D.</b> With
where he has a panel of blood tests done. He brings the results to you because he	subclinical thyroid dysfunction, TSH is either below or above the normal range,
is concerned about the TSH level of 12.0 _U/mL (N 4 0.45–4.5). His free T level	free T3 or T4 levels are normal, and the patient has no symptoms of thyroid
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 83 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>is normal. Which one of the following is most likely to be associated with this finding?</li> <li>A) Atrial fibrillation</li> <li>B) Reduced bone density</li> <li>C) Systolic heart failure</li> <li>D) Elevated LDL cholesterol</li> <li>E) Type 2 diabetes mellitus</li> <li>10-097. +End+Mac. A 29-year-old gravida 2 para 1 presents for pregnancy confirmation. Her last menstrual period began 6 weeks ago. Her medical history is significant for hypothyroidism, which has been well-controlled on levothyroxine (Synthroid), 150 ug daily, for the past 2 years. Which one of the following would be the most appropriate next step in the treatment of this patient's hypothyroidism during her pregnancy?</li> <li>A) Add liothyronine (Cytomel) to her current regimen</li> <li>B) Decrease the levothyroxine dosage</li> <li>C) Increase the levothyroxine dosage</li> </ul>	disease. Subclinical hypothyroidism (TSH >10 _U/mL) is likely to progress to overt hypothyroidism, and is associated with increased LDL cholesterol. Subclinical hyperthyroidism (TSH <0.1 _U/mL) is associated with the development of atrial fibrillation, decreased bone density, and cardiac dysfunction. Neither type of subclinical thyroid dysfunction is associated with diabetes mellitus. There is insufficient evidence of benefit to warrant early treatment of either condition. Hypothyroidism. <b>10-097.</b> Maternal. <b>ANS=C.</b> Maternal hypothyroidism can have serious effects on the fetus, so thyroid dysfunction should be treated during pregnancy. Because of hormonal and metabolic changes in early pregnancy, the levothyroxine dosage often needs to be increased at 4–6 weeks gestation, and the patient eventually may require a 30%–50% increase in dosage in order to maintain her euthyroid status.
<ul> <li>D) Continue her current regimen</li> <li>08-031. +Gas+Adm. Which one of the following is associated with ulcerative colitis rather than Crohn's disease?</li> <li>A) The absence of rectal involvement</li> <li>B) Transmural involvement of the colon</li> <li>C) Segmental noncontinuous distribution of inflammation</li> <li>D) Fistula formation</li> <li>E) An increased risk of carcinoma of the colon</li> </ul>	IBD. <b>08-031.</b> Ulcerative colitis (UC). <b>ANS=E.</b> Long-standing ulcerative colitis (UC) is associated with an increased risk of colon cancer. The greater the duration and anatomic extent of involvement, the greater the risk. Initial colonoscopy for patients with pancolitis of 8–10 years' duration (regardless of the patient's age) should be followed up with surveillance examinations every 1–2 years, even if the disease is in remission. All of the other options listed are features typically associated with Crohn's disease. Virtually all patients with UC have rectal involvement, even if that is the only area affected. In Crohn's disease, rectal involvement is variable. Noncontinuous and transmural inflammation are also more common with Crohn's disease. Transmural inflammation can lead to eventual fistual formation, which is not seen in UC.
<ul> <li>10-172. +Gas+Cca.* Over the last 6 months a developmentally normal 12-year-old white female has experienced intermittent abdominal pain, which has made her quite irritable. She also complains of joint pain and general malaise. She has lost 5 kg (11 lb) and has developed an anal fissure. Which one of the following is the most likely cause of these symptoms?</li> <li>A) Celiac disease (gluten enteropathy)</li> <li>B) Irritable bowel syndrome</li> <li>C) Hepatitis A</li> <li>D) Crohn's disease</li> <li>E) Giardiasis</li> </ul>	IBD. 10-172. Crohn's disease. ANS=D. The most common age of onset for inflammatory bowel disease is during adolescence and young adulthood, with a second peak at 50–80 years of age. The manifestations of Crohn's disease are somewhat dependent on the site of involvement, but systemic signs and symptoms are more common than with ulcerative colitis. Perianal disease is also common in Crohn's disease. Irritable colon and other functional bowel disorders may mimic symptoms of Crohn's disease, but objective findings of weight loss and anal lesions are extremely uncommon. This is also true for viral hepatitis and giardiasis. In addition, the historical and epidemiologic findings in this case are not consistent with either of these infections. Celiac disease and giardiasis can produce Crohn's-like symptoms of diarrhea and weight loss, but are not associated with anal fissures.
<b>07-134.</b> +Int+Adm. Which one of the following is a known risk factor for necrotizing soft-tissue infections? A) Age <25 years B) Direct inguinal hernia C) Hyperalbuminemia D) Diabetes mellitus	Infection. <b>07-134.</b> Necrotizing soft-tissue <b>ANS=D.</b> Known risk factors for necrotizing soft-tissue infections include age >50 years, atherosclerosis, burns, cancer or other immunocompromised states, chronic alcoholism, corticosteroid use, diabetes mellitus, hypoalbuminemia, intravenous drug abuse, malnutrition, obesity, occult diverticulitis, peripheral vascular disease, postoperative infection, strangulated femoral hernia with content extravasation, and trauma.
<b>09-054.</b> +Int+Cca. A 2-year-old female is brought to the emergency department with a 2-day history of fever and increasing redness on the left forearm. She is otherwise healthy. On examination her temperature is 39.9°C (103.8°F), pulse rate 140 beats/min, and respiratory rate 42/min. She is irritable, and the left forearm has a 4-cm erythematous, warm, tender area, with a fluctuant area centrally. Her WBC count is 21,000/mm (N 4300–1 3 0,800), with 14% immature bands. In addition to incision and drainage, which one of the following is the best initial treatment in this patient? A) Intravenous vancomycin B) Intravenous ampicillin/sulbactam (Unasyn) C) Intravenous nafcillin D) Intravenous clindamycin (Cleocin) E) No antibiotics	Infection. <b>09-054.</b> Severe. <b>ANS=A.</b> This patient has systemic symptoms that suggest a severe underlying infection. Community-acquired methicillin-resistant <i>Staphylococcus aureus</i> (CA-MRSA) should be considered the cause of this type of infection until definitive cultures are obtained. CA-MRSA can cause aggressive infections in children, especially in the skin and soft tissue. Incision and drainage of the abscess is necessary for treatment. In a severe infection, vancomycin should be started initially until culture and sensitivities are available (SOR B).
<ul> <li>09-115. +Pbc+Com. You are a member of a committee at your local hospital that has been asked to develop measures to reduce the incidence of postoperative methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) infections. Which one of the following would be most effective for preventing these infections?</li> <li>A) Give preoperative antibiotics to all surgical patients to eradicate bacteria</li> <li>B) Screen all admitted patients for MRSA and use antibiotics pre- and postoperatively in positive cases</li> <li>C) Culture the nares of all hospital employees upon hiring and on a routine basis thereafter</li> <li>D) Institute an intensive program of good hand washing for all employees</li> </ul>	Infection. <b>09-115.</b> prevention. <b>ANS=D.</b> Nosocomial infections are a significant factor in morbidity and cost in the health care field. Methicillinresistant <i>Staphylococcus aureus</i> (MRSA) has rapidly increased in frequency, first being found only at tertiary centers, then local hospitals, and now in the outpatient setting. In 2004, an estimated 1.5% of U.S. residents carried MRSA in the anterior nares of the nose. Of those who are found to be colonized, either at the time of hospitalization or later by a routine culture, 25% will develop a MRSA infection. However, a recent study showed that of 93 patients who became infected with the organism, 57% were not colonized at the time of infection. The study also attempted to screen all patients for MRSA on admission, but found that even though 337 previously unknown carriers were found (in addition to those already known to harbor the organism), there was not a significant decrease in the rate of MRSA infections during the study. Although MRSA infections can be serious, they comprise only 8% of nosocomial infections in the hospital, and concentrating prevention efforts only on MRSA has little effect on that 8%, and no effect on the 92% of infections caused by other organisms. Iatrogenic complications arise from trying to treat MRSA carriers, including both drug reactions and the development of other resistant organisms. Costs related to attempts at prophylaxis also go up. Culturing all hospital employees has not been proven to be of value, as employees

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	can pick up the organism after screening, and also can spontaneously eradicate the organism without treatment. The best way to prevent complications and postoperative infections is to aggressively advocate universal and frequent hand washing and room cleaning, and use good isolation techniques and methods of preventing infection, such as strict catheter and intravenous tubing protocols.
<ul> <li>09-147. +Pbc+Com. The most common identifiable cause of skin and soft-tissue infections presenting to metropolitan emergency departments is</li> <li>A) Staphylococcus epidermidis</li> <li>B) Streptococcus pneumoniae</li> <li>C) Pseudomonas aeruginosa</li> <li>D) methicillin-resistant Staphylococcus aureus (MRSA)</li> <li>E) Bacillus cereus</li> </ul>	Infection. <b>09-147.</b> Skin and soft-tissue. <b>ANS=D.</b> Recent clinical experience has shown that methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) is the most common identifiable cause of skin and soft-tissue infections among patients presenting to emergency departments in 11 U.S. cities. The other responses should be considered in evaluating these infections, but they are not as common as MRSA infections.
<ul> <li>07-038. +Res+Com. Three members of the same family present with a high fever and cough that began abruptly yesterday. All three report having fevers over 40° C (104° F), painful coughs, moderate sore throats, and prostration. They have loss of appetite, but no vomiting or diarrhea. Two other family members have similar symptoms. On examination the patients appear ill and flushed. There is no cervical adenopathy, no visible pharyngeal inflammation, and no significant findings on examination of the chest. Which one of the following is the most likely diagnosis?</li> <li>A) <i>Mycoplasma</i> pneumonia</li> <li>B) Influenza-like illness</li> <li>C) Bacterial bronchitis</li> <li>D) Upper respiratory infection</li> <li>E) Legionnaires' disease</li> </ul>	Influenza. <b>07-038.</b> Influenza has a very abrupt onset, and a fever with a nonproductive cough is almost always present. ANS=B. Unconfirmed cases are referred to as "influenza-like illness" (ILI) or "suspected influenza." Patients with confirmed cases tend to say they have never been so ill. <i>Mycoplasma</i> pneumonia can spread among family members, but it is milder and has a more indolent onset and a longer incubation period. Bacterial bronchitis is an overdiagnosed, supposed complication of upper respiratory infections, and is not contagious. While the phrase "cold and flu" is often used, upper respiratory infections are not so febrile or prostrating, and coryza is the dominant syndrome sooner or later. <i>Legionella</i> can have point-source epidemics, but the incubation period is longer, symptoms vary from mild illness to life-threatening pneumonia, and diarrhea is prominent in many cases.
<b>07-058.</b> +Res+Com+Cca. Which one of the following has activity against influenza A only? A) Influenza vaccine B) Rimantadine (Flumadine) C) Zanamivir (Relenza) D) Oseltamivir (Tamiflu)	Influenza. 07-058. ANS=B. The specific virus strains contained in influenza vaccine are determined annually by the FDA; current vaccines include two influenza A subtypes, H1N1 and H3N2, and influenza B. <u>Rimantadine is used</u> for the prevention or treatment of influenza A; it is approved for prophylaxis in those $\geq$ 1 year of age, and for treatment in those $\geq$ 18 years of age. Zanamivir is used for the treatment of influenza type A and B in those $\geq$ 7 years of age. Oseltamivir is used for the treatment of influenza type A and B in those $\geq$ 18 years of age (no longer valid) ( <i>UpToDate: as of December 09, the FDA has temporarily approved the use of oseltamivir even in children &lt; 1 y/o)</i> .
<b>07-119.</b> +Res+Com. Influenza A has been isolated in your community. Yesterday, a nurse in the medical-surgical unit developed significant symptoms of influenza. She did not receive the annual influenza immunization, and she asks for your advice. Which one of the following would be most appropriate at this time? A) Amantadine (Symmetrel) B) Atorvastatin (Lipitor) C) Rimantadine (Flumadine) D) Oseltamivir (Tamiflu) E) Acyclovir (Zovirax)	Influenza. <b>07-119.</b> Treatment. <b>ANS=D.</b> This health care worker should be treated with <u>oseltamivir</u> because it is <u>effective for those who have been symptomatic</u> <u>for less than 48 hours.</u> Amantadines have activity against influenza A but not influenza B, and recent studies show that 91% of isolates tested between 2004 and January 2006 are resistant to this class of drugs. Interestingly, <u>the idea has been</u> <u>raised to use statin drugs to calm the immune system's cytokine storm</u> , which results in respiratory failure from the influenza infection. Acyclovir is not indicated for this patient.
<ul> <li>07-232. +Res+Com. The fact that avian influenza has affected only a small number of humans is most likely due to</li> <li>A) the rarity of human-to-human spread</li> <li>B) its lack of spread to animals other than birds</li> <li>C) its lack of spread to domesticated poultry</li> <li>D) its lack of spread to swine</li> <li>E) well-established human immunity to similar strains of influenza</li> </ul>	Influenza. <b>07-232.</b> H5N1. Human-to-human transmission of the H5N1 avian influenza strain has, to date, been relatively rare and has occurred via means that have not been sustained. <b>ANS=A</b> . Domestic pets, poultry, and swine have been infected and are potential sources of infection. Humans have not developed immunity to this strain as a result of recent epidemics of similar strains.
<ul> <li>08-035. +Res+Cca. A 6-year-old female presents with a 24-hour history of dry cough, malaise, and a temperature of 39.8°C (103.6°F). She received an influenza vaccination 7 days ago. A rapid influenza test is positive for influenza A. Which one of the following would be the best treatment option for this patient?</li> <li>A) Oseltamivir (Tamiflu)</li> <li>B) Amantadine (Symmetrel)</li> <li>C) Rimantadine (Flumadine)</li> <li>D) Zanamivir (Relenza)</li> </ul>	Influenza. <b>08-035.</b> Influenza A treatment, children under the age of 7; Recommendations. ANS=A. Amantadine and rimantadine are not recommended for the treatment of influenza A because of the development of resistance to these drugs. <u>Resistance is not a problem with neuramidase inhibitors such as</u> <u>oseltamivir in immunocompetent patients</u> . Zanamivir is not recommended for treatment of children under the age of 7. Although this child has recently received influenza vaccine, this is not a contraindication to drug therapy.
<ul> <li>08-174. +Pbc+Com. The intranasal live, attenuated influenza vaccine would be appropriate for which one of the following?</li> <li>A) A 5-year-old female who is otherwise healthy</li> <li>B) A 12-year-old male who has a history of severe persistent asthma</li> <li>C) A 21-year-old female who has a history of Guillain-Barré syndrome</li> <li>D) A 24-year-old female who is 24 weeks pregnant</li> <li>E) A 55-year-old healthy male who requests influenza vaccine</li> </ul>	Influenza. 08-174. vaccine, live. ANS=A. <u>The live, attenuated influenza</u> vaccine (LAIV) is an option for vaccinating healthy, nonpregnant individuals age 5-49 years. The vaccine is administered intranasally. It is <u>not indicated in</u> patients with underlying medical conditions, such as <u>chronic pulmonary or</u> cardiovascular disease, or in patients with a history of Guillain-Barré syndrome, pregnant patients, or children and adolescents who receive long- term aspirin or salicylate therapy. <u>Patients with a history of hypersensitivity</u> to eggs also should not receive this vaccine.
<b>09-209.</b> +Res+Mac. At a routine visit in October, a 17-year-old primigravida at 10 weeks gestation asks whether she should get influenza vaccine. Her mother recommended it, but she is concerned about the needle stick and potential harm to the fetus. Which one of the following would you do? A) Recommend intramuscular vaccine and tell her that evidence indicates some protection for the baby up to 6 months of age B) Recommend vaccine because the patient is under age 50 and needle-averse C) Recommend vaccination be delayed until the second trimester to reduce fetal risk E) Recommend immunization of household contacts to reduce maternal risk, but no immunization of the patient	Influenza. <b>09-209.</b> vaccine; Recommendations. <b>ANS=A.</b> <u>Women who will be</u> <u>pregnant during the influenza season should receive the inactivated vaccine</u> (SOR C). The live nasal vaccine is not approved for use in pregnancy. The vaccine can be given in any trimester. Coexistent illness is not required for this indication. There appears to be some protective effect for the infant up to the age of 6 months. Immunization of family members is sometimes recommended for immunocompromised patients. In the absence of other indications, however, it has not been recommended for family members of pregnant patients.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>10-152. +Res+Adm. A 24-year-old male presents with a fever of 38.9°C (102.0°F), generalized body aches, a sore throat, and a cough. His symptoms started 24 hours ago. He is otherwise healthy. You suspect novel influenza A H1N1 infection, as there have been numerous cases in your community recently. A rapid influenza diagnostic test is positive, and you recommend over-the-counter symptomatic treatment. You see him 2 days later after he is admitted to the hospital through the emergency department with dehydration and mild respiratory distress. A specimen is sent to the state laboratory for PCR testing. Which one of the following would be most appropriate at this point?</li> <li>A) Oseltamivir (Relenza)</li> <li>C) Amantadine (Symmetrel)</li> <li>D) Rimantadine (Flumadine)</li> <li>E) No antiviral treatment</li> </ul>	Influenza. <b>10-152.</b> H1N1. <b>ANS=A.</b> The currently circulating novel influenza A H1N1 virus is almost always susceptible to neuraminidase inhibitors (oseltamivir and zanamivir) and resistant to the adamantanes (amantadine and rimantadine). Zanamivir should not be used in patients with COPD, asthma, or respiratory distress. Antiviral treatment of influenza is recommended for all persons with clinical deterioration requiring hospitalization, even if the illness started more than 48 hours before admission. Antiviral treatment should be started as soon as possible. Waiting for laboratory confirmation is not recommended.
<ul> <li><b>08-069.</b> +Psy+Mhe. A 37-year-old female presents with concerns about difficulty initiating and maintaining sleep for the past 3–4 months. She is irritable and feels fatigued and sleepy during the day. After further evaluation, she is diagnosed with chronic insomnia. She asks about alternatives to hypnotic drug treatments. Which one of the following management options is best supported by current evidence?</li> <li>A) Diphenhydramine (Benadryl)</li> <li>B) Cognitive behavior therapy</li> <li>C) St. John's wort</li> <li>D) 4 oz of red wine 30 minutes before bedtime</li> <li>E) Vigorous aerobic exercise 30–45 minutes before bedtime</li> </ul>	Insomnia. <b>08-069. Chronic. 08-069. ANS=B.</b> Routine use of over-the-counter antihistamines should be discouraged because they are only minimally effective in inducing sleep, may reduce sleep quality, and can cause residual drowsiness. Cognitive-behavioral therapy helps change incorrect beliefs and attitudes about sleep (e.g., unrealistic expectations, misconceptions, amplifying consequences of sleeplessness). Techniques include reattribution training (goal setting and planning coping responses), decatastrophizing (balancing anxious automatic thoughts), reappraisal, and attention shifting. <u>Cognitive-behavioral therapy is recommended as an effective, nonpharmacologic treatment for chronic insomnia</u> (SOR A). Many herbs and dietary supplements have been promoted as sleep aids. However, with the exceptions of melatonin and valerian, there is insufficient evidence of benefit. Alcohol acts directly on GABA-gated channels, reducing sleep-onset latency, but it increases wakefulness after sleep onset and suppresses rapid eye movement (REM) sleep. It also has the potential for abuse and should not be used as a sleep aid. Moderate-intensity exercise can improve sleep, but exercising just before bedtime can delay sleep onset. <u>Epocrates:</u> chronic insomnia: without comorbid anxiety/depression:
<ul> <li>-Cognitive behavioral therapy (CBT) May be used in patients who prefer not to use medications or those unresponsive to hypnotics. Has been shown to effectively treat insomnia over the long term but requires patient commitment and practitioner training. CBT results in significant symptom improvement after 12 months, and may be of benefit in initial combination therapy of CBT and a hypnotic. In elderly patients, evidence is less strong.[C] Evidence.CBT incorporates elements of stimulus control, sleep restriction, and cognitive restructuring. Stimulus control involves a set of instructional procedures designed to curtail behaviors that are incompatible with sleep and to regulate the sleep-wake cycle.</li> <li>-Sleep hygiene and relaxation techniques.</li> <li>-Chronic insomnia with comorbid anxiety: Hypnotics have been shown to be efficacious when used in combination with anxiolytics in the treatment of insomnia comorbid with anxiety. Primary Options: eszopiclone : 2-3 mg orally once daily at bedtime when required and escitalopram : 10 mg orally once daily.</li> <li>-Chronic insomnia with comorbid depression: Hypnotics have been shown to be efficacious when used in combination with antidepressants in the treatment of insomnia comorbid with depression. Primary Options: zolpidem : 5-10 mg orally (immediate-release) once daily at bedtime when required and paroxetine : 10-20 mg</li> </ul>	<ul> <li>Hypnotics are one first-line option for insomnia. These medications are considered safe and effective. Some hypnotics reduce latency to sleep onset and are appropriate for use with patients who have difficulty falling asleep. Other hypnotics reduce latency to sleep onset and reduce wakefulness after sleep onset, making them appropriate for use in patients with sleep maintenance problems. New-generation hypnotics may be used without limit on the term of use; long-term data in adults indicate that treatment with zolpidem (12.5 mg 3 to 7 nights/week) is efficacious and safe, with sustained improvement in sleep onset and maintenance. It has been shown to also improve work performance. Ramelteon reduced latency to persistent sleep in a 6-month double-blind, placebo-controlled trial. Consideration has been given to the use of intermittent dosing strategies for the long-term treatment of insomnia. Benzodiazepines are now rarely used in the treatment of insomnia.</li> <li>Primary Options:</li> <li>*zolpidem : 5-10 mg orally (immediate-release) once daily at bedtime when required.</li> <li>*zaleplon : 5-10 mg orally once daily at bedtime when required, maximum 20 mg/day.</li> </ul>
<ul> <li>orally once daily.</li> <li>10-054. +Psy+Mhe. A 64-year-old male presents with a 3-month history of difficulty sleeping. A history and physical examination, followed by appropriate ancillary testing, leads to a diagnosis of chronic primary insomnia.</li> <li>Which one of the following would be most appropriate for managing this patient's problem?</li> <li>A) An SSRI</li> <li>B) A small glass of wine 1 hour before bedtime</li> <li>C) Cognitive-behavioral therapy</li> <li>D) Watching television at bedtime, with the timer set to turn off in 60 minutes</li> <li>E) Reading in bed with a soft light</li> </ul>	*ramelteon : 8 mg orally once daily at bedtime when required Insomnia. <b>10-054.</b> Chronic. <b>10-054.</b> ANS=C. Chronic insomnia is defined as difficulty with initiating or maintaining sleep, or experiencing nonrestorative sleep, for at least 1 month, leading to significant daytime impairment. Primary insomnia is not caused by another sleep disorder, underlying psychiatric or medical condition, or substance abuse disorder. Cognitive-behavioral therapy is effective for managing this problem, and should be used as the initial treatment for chronic insomnia. It has been shown to produce sustained improvement at both 12 and 24 months after treatment is begun. One effective therapy is stimulus control, in which patients are taught to eliminate distractions and associate the bedroom only with sleep and sex. Reading and television watching should occur in a room other than the bedroom.
<ul> <li>08-131. +Mus+Cca. You see a 5-year-old white female with in-toeing due to excessive femoral anteversion. She is otherwise normal and healthy, and her mobility is unimpaired. Her parents are greatly concerned with the cosmetic appearance and possible future disability, and request that she be treated. You recommend which one of the following?</li> <li>A) Observation</li> <li>B) Medial shoe wedges</li> <li>C) Torque heels</li> <li>D) Sleeping in a Denis Browne splint for 6 months</li> <li>E) Derotational osteotomy of the femur</li> <li>10-195. +Car+Adm.* A 59-year-old male who is morbidly obese suffers a cardiac</li> </ul>	In-toeing. <b>08-131.</b> In-toeing due to excessive femoral anteversion. <b>ANS=A.</b> There is little evidence that femoral anteversion causes long-term functional problems. Studies have shown that shoe wedges, torque heels, and twister cable splints are not effective. Surgery should be reserved for children 8–10 years of age who still have cosmetically unacceptable, dysfunctional gaits. Major complications of surgery occur in approximately 15% of cases, and can include residual in-toeing, out-toeing, avascular necrosis of the femoral head, osteomyelitis, fracture, valgus deformity, and loss of position. Thus, observation alone is appropriate treatment for a 5-year-old with uncomplicated anteversion.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 86 of 170 receive."	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
arrest. Intravenous access cannot be obtained. Which one of the following is true regarding intraosseous drug administration in this patient? A) The patient's age and size are a contraindication to intraosseous administration B) The time needed to establish intraosseous access is too great C) Many drugs cannot be administered intraosseously D) Endotracheal administration is preferred	Association ACLS guidelines state that intraosseous access can be obtained in almost all age groups rapidly, and is preferred over the endotracheal route. Any drug that can be administered intravenously can be administered intraosseously. Many drugs administered via an endotracheal tube are poorly absorbed, and drug levels vary widely.
E) There are no contraindications to intraosseous administration in this patient	
<ul> <li>08-006. +Gas+Adm. A 26-year-old female presents with a 1-year history of recurring abdominal pain associated with intermittent diarrhea, 5–7 days per month. Her pain improves with defecation. There has been no blood in her stool and no weight loss. Laboratory findings are normal, including a CBC, chemistry profile, TSH level, and antibodies for celiac disease. Which one of the following would be most appropriate at this point?</li> <li>A) Colonoscopy</li> <li>B) An upper GI series with small-bowel follow-through</li> <li>C) Abdominal CT with contrast</li> <li>D) A gluten-free diet</li> <li>E) Loperamide (Imodium)</li> </ul>	Irritable bowel syndrome. <b>08-006.</b> classic symptoms. This patient has classic symptoms of IBS and meets the <u>Rome criteria by having 3 days per month of abdominal pain for the past 3 months, a change in the frequency of stool, and improvement with defecation.</u> According to current clinical guidelines <u>IBS can be diagnosed by history, physical examination, and routine laboratory testing, as long as there are no warning signs. Warning signs include rectal bleeding, anemia, weight loss, fever, a family history of colon cancer, onset of <u>symptoms after age 50, and a major change in symptoms.</u> Colonoscopy, CT, and GI contrast studies are not indicated. A gluten-free diet would not be indicated since the antibody tests for celiac disease are negative. Antidiarrheal agents such as loperamide are generally safe and effective in the management of diarrheal symptoms in IBS. <b>ANS=E.</b></u>
<b>09-121.</b> +Gas+Adm. A 42-year-old white female presents to your office as a new patient. She states that she has an 8-year history of abdominal cramps and diarrhea. Her symptoms have not responded to the usual treatments for irritable bowel syndrome. She has no rectal bleeding, anemia, weight loss, or fever, and no family history of colon cancer. Her medical history and a review of symptoms is otherwise negative, and a physical examination is normal. Which one of the following would be the most appropriate next step in evaluating this patient? A) A CBC B) A TSH level C) A complete metabolic panel D) Serologic testing for celiac sprue E) Stool testing for ova and parasites	Irritable bowel syndrome. <b>09-121.</b> Diarrhea-predominant. <b>ANS=D.</b> In patients who have symptoms of irritable bowel syndrome (IBS), the differential diagnosis includes celiac sprue, microscopic and collagenous colitis, atypical Crohn's disease for patients with diarrhea-predominant IBS, and chronic constipation (without pain) for those with constipation-predominant IBS. If there are no warning signs, laboratory testing is warranted only if indicated by the history.
<ul> <li>10-084. +Gas+Adm.? Which one of the following is found most consistently in patients diagnosed with irritable bowel syndrome?</li> <li>A) Passage of blood per rectum</li> <li>B) Passage of mucus per rectum</li> <li>C) Abdominal pain</li> <li>D) Constipation</li> <li>E) Diarrhea</li> </ul>	Irritable bowel syndrome. <b>10-084.</b> Abdominal pain. <b>ANS=C.</b> A large review of multiple studies identified <u>abdominal pain as the most consistent feature found</u> <u>in irritable bowel syndrome (IBS)</u> , and its absence makes the diagnosis less likely. Of the symptoms listed, passage of blood is least likely with IBS, and passage of mucus, constipation, and diarrhea are less consistent than abdominal pain (SOR A).
<b>08-236.</b> +Car+Adm. A middle-aged male comes to the emergency department after a single, brief episode of pressure-like chest pain on exertion that was relieved by rest. He is asymptomatic on arrival. His EKG is shown. While awaiting results of cardiac enzyme studies, he has a second episode of similar chest discomfort and a second EKG is performed ( <b>Figure 6</b> ). When considering both EKGs, which one of the following would be the most appropriate interpretation? A) Left ventricular hypertrophy and strain B) Early repolarization C) Old inferior myocardial infarction D) Acute anterior ischemia E) Uninterpretable due to artifact	Ischemic heart disease. <b>08-236.</b> Anterior. The second EKG includes ST depression and T-wave inversion in leads V2–V4, the classic picture of anterior ischemia. <b>ANS=D</b> . The patient did have a tight stenosis of his proximal left anterior descending artery. The first EKG, from just half an hour earlier, removes any doubt that these features are due to chronic conditions such as left ventricular hypertrophy with strain or early repolarization. Although there is considerable baseline artifact in the first EKG, it is still interpretable, especially with the additional information from the second EKG.



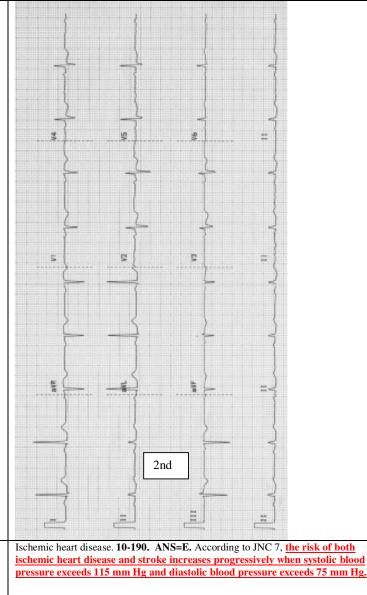
08-148. +Int+Cca. A 36-hour-old male is noted to have jaundice extending to the

38 weeks gestation after an uncomplicated pregnancy. The mother's blood type is

abdomen. He is breastfeeding well, 10 times a day, and is voiding and passing meconium-stained stool. He was born by normal spontaneous vaginal delivery at

A positive with a negative antibody screen. The infant's total serum

bilirubin is 13.0 mg/dL. Which one of the following would be the most



Jaundice. **07-203.** Breastfeeding is the most likely cause of this baby's jaundice. **ANS=A.** It usually appears within the first week of life, when breastfed infants have higher bilirubin levels than do formula-fed infants. Hyperbilirubinemia (>12 mg/dL) develops in 13% of breastfed infants and may be due to the dehydration or reduced caloric intake associated with reduced mild intake. Giving supplemental glucose water to breastfed infants is associated with higher bilirubin levels, in part because of reduced intake of breast milk, which has a higher caloric density. **Frequent breastfeeding (>10/24 hr), rooming-in with night feeding, and** 

discouraging 5% dextrose or water supplementation may reduce the incidence of early breastfeeding jaundice. With spherocytosis, the predominant bilirubin is indirect (unconjugated), but the hemoglobin is low and the reticulocyte count is increased, with spherocytes seen on the blood smear. Isoimmunization occurs with an Rh-negative mother and an Rh-positive child. There is a positive Coombs test with this condition. The predominant bilirubin in biliary atresia and neonatal sepsis is the direct (conjugated) type. In addition, it is unlikely that a

baby with neonatal sepsis would be maintaining weight and have no abnormalities other than jaundice on physical examination. Jaundice. **08-148.** Hyperbilirubinemia in the newborn. **ANS=B.** In 2004 the American Academy of Pediatrics published updated clinical practice guidelines on the management of hyperbilirubinemia in the newborn infant at 35 or more weeks gestation. These guidelines focus on frequent clinical assessment of jaundice, and treatment based on the total serum bilirubin level, the infant's age in hours, and risk factors. Phototherapy should not be started based solely on the total serum bilirubin level. The guidelines encourage breastfeeding 8–12 times daily in the

appropriate management of this infant's jaundice?

A) Breastfeeding

B) Spherocytosis

D) Biliary atresia

E) Neonatal sepsis

C) Rh incompatibility

A V Continue becatificating and applement will water a decress in water by present delyndrom. There is no evidelyndrom description of the set o	Mario's ITE database V2010 007	Document conv for the cole perconal use of Dr. Mario Alberto Jimenez
<ul> <li>Percent displacion</li> <li>Supplementation with source or destrone in ware in a notice of part in the source of the source o</li></ul>	Mario's ITE database V2010.007 A) Continue breastfeeding and supplement with water or dextrose in water to	Document copy for the sole personal use of Dr. Mario Alberto Jimenez first few days of life to prevent dehydration. There is no evidence to support
<ul> <li>rdx</li> <li>C. Discontinue breastfeeding and applement with formula until the junctice.</li> <li>Performance breastfeeding and applement with formula until the junctice.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with the possibility of special applement.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with formula until tau arrant.</li> <li>Performance breastfeeding and applement with the possibility of special applement.</li> <li>Performance breastfeeding and applement with the possibility of special applement.</li> <li>Performance breastfeeding and applement with the possibility of special applement.</li> <li>Performance breastfeeding and applement with the possibility of special applement.</li> <li>Performance breastfeeding and applement with the possibility of special applement.</li> <li>Performance breastfeeding and applement with tau and tau applement with the possibility of special applement with the possibility o</li></ul>		supplementation with water or dextrose in water in a nondehydrated breastfeeding
C Discontine breatfields and supplement with formula until the janded: PD Josoff C and S begin to decrement of the point of the formula until total scenar D Josoff L and S begin to decrement of the point and begin decrement of the point may also be considered in the data lines begin to decrement of the point may be considered in the point of the point of the point may be considered in the data lines begin to decrement of the point may be considered in the data lines begin to decrement of the point may be considered in the data lines begin to decrement of the point may be be considered in the data lines begin to decrement of the point may be be an indication of the point may be be considered in the data lines of the point of the point may be be an indication of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be considered in the data lines of the point may be be point the data lines of the point of the point may be be considered the data lines of the point may be be considered in the data lines of the point may be be point the data lines of the point of the point may be be point the data lines of the point of the point may be be point the data lines of the point of the point may be be point the data lines of the point of the point may be be point the data lines of the point of the point may be be point the data lines of the point of the point may be be point the data lines of the point of the point may be be point the data lines of the point of the point may be be point the data lines of the point o		
<ul> <li>read-res</li> <li>Discontante breatticeding and suppernent with formula until odal serum binnin texts legation to decrease.</li> <li>Part explanation of the service sectors of the antiperiod in space and explain by 11 sets by supper loss of prior processes with an anguine decision. The appernent is service of serve destruction of the joint and updecised through he is not eager to do in. You would advice this multi end in indication of the prior. In the service of serve destruction of the joint and the status of the considered in andregraphic witchese of serve destruction of the joint and the status of the considered in the decision. The appearance of the joint and the status of the considered in andregraphic witchese of serve destruction of the joint and the status of the considered in the decision. The appearance of the joint prior the text here and the decision. The appearance of the joint prior the text here and the status of the construction of the prior th</li></ul>		feedings, and there is no reason to discontinue breastfeeding at this time.
D) Discontine broadback decrease         0P-143: Must-Cl. A 70-year-old retred famor presents with an angulade right mean da paint lift be akky yaudwalk the possibility of "generating a severe joint pain, must/p pain arrest. Loss of plaint famor and mean data paint lift be akky yaudwalk the possibility of "generating a severe joint pain, must/p pain arrest. Loss of plaint famor presents with an angulade right mean data paint lift be akky yaudwalk the possibility of "generating a severe joint pain. A possibility before the possibility of "generating a severe joint pain. A possibility before the plaint and be status of the contained paint a contrained severe joint paint in the possibility of "generating" severe joint paint and be status of the contained paint a contrained severe joint paint and be status of the contained paint a contrained severe joint paint in the possibility of "generating" sever		
97-143. Mus-Cd. A 70-year-old reined famer presents with an angular dight accord a pixeling the lisk store and pixeling and lisk store and lis		
<ul> <li>Incer and pairful tip. He ask, you about the possibility of "getting a new kere".</li> <li>Andongah is in or aget to do so. Yow outdot dorise hind the major indication of the control of a hear phase control of the phase contend control of the phase control of the phase control of the p</li></ul>		
<ul> <li>atheogh is not expert to 6x Yeu would advise him that the migr indication for have explorance in As verse joint and its present advised joint and the supervised of the appearance of the papearance of the papearance</li></ul>		
for lase replacement is A severe joint pain at res B) marked joint spine methods       the devision. The appearance of the joint and the stand of the contralated joint on microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is support of a foreign body into a microactical joint of a microactical is a microactical joint of a microactical point at a microactical point at a microactical joint of a microactical point at a microactical joint of a microactical point at a microactical joint of a microactical point at		
<ul> <li>nurrowing isen on radiologic subjes C destruction and loss of motion of the point is correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont of a foreign body into an infracted joint correlation. Surgical treatmont on point correlation. Surgical treatmont on point correlation. Surgical treatmont on point correlation. Surgical treatmont correlation.</li></ul>		
<ul> <li>97-202 Mus-Adm. A positive Lachman test indicates injury to the A media collastical ligament (C) media menicos</li> <li>90 media collastical ligament (C) media de ligament</li></ul>		
A) media (colluctal ligament B) postorie or cucita ligament B) anctor or cucita ligament B) and B) an		5
<ul> <li>B) Postford cruciale ligament</li> <li>C) medial menics</li> <li>B) letcal collisional ligament</li> <li>B) letcal collisional li</li></ul>		
Consider revises but the ispace of the importance of the importanc		
D) anterior encisel ligament         E) literal collideral ligament         E) literal collideral ligament         E) literal collideral ligament         E) literal collideral ligament         E) anteral collideral ligament ligament         E) anteral collideral ligament ligament         E) Posteliar collideral ligament liga		
elastic band, is a positive or abnormal custom that indicates a ruptured anterior         encutatic ligament. Inits isses, the anterior drawet stavould able positive, but it is not a specific as the Lachman test.         09-070. +MuseCSp. A 16-year-old high-school football player plants his loft fort to make a cut and feel his left og give way. He feels a pop in the knee, followed by acute pain. He is evaluated to the field, and examination with the knee followed by acute pain. He is evaluated to the field, and examination with the knee followed by acute pain. He is evaluated to the field and examination with the knee followed by acute pain. He is evaluated to the field and examination with the knee followed by acute pain. He is evaluated to the field and examination with the knee followed by acute pain. He is evaluated to the field and examination with the knee followed by acute pain. He is evaluated to the field and examination with the knee followed by acute pain. He is evaluated to the field and examination with the knee followed by acute pain. He is evaluated to the field and examination with the knee followed by acute pain. He is evaluated to the field and examination with the knee followed by acute pain. He is selected to the select Approximately 50% of patients with the initiacit a problems, there is a selected the initiacit on the inmediate problems, there is a point field and examination with the knee followed by acute pain. He is a selected the initiacit is a none field and examination with the knee followed by acute pain. He is a selected the initiacit is a none of the initiacit is a none of initiacity of the initia is another the initiacit is another the initiacit is a selected the initiacit is a none of the initia is another the initiacit is another initiacit is another initiacit is another initiaci is another initiac		
enclast liganet, In this case, the autering drawer test would also be positive, but is not as specific and the Lachman lest. Injuries to the other structures listed are diagneed using other maneuvers, and are not associated with a positive Lachman test.         09-070: +Mus+Csp. A 16-year-old high-school football player plants his for foot to make a cut and feels his fell eggive way. He feels a pop in the kace, followed by acute pain. He is evaluated on the field, and examination with the keer feelsed 20 reveals hith test like and the diagneed future marries the heat the market contact. In addition to the mediate robustive 20 reveals hith test like and the diagneed future marries the heat the keer feelsed 20 reveals hith test like and the diagneed future marries the heat the keer feelsed 20 reveals hith test like and the diagneed future marries the heat the keer feelsed 20 reveals hith test like and the diagneed future marries the heat the keer feelsed 20 reveals hith test like and the diagneed future marries the heat the keer feelsed 20 reveals hith test like and the diagneed future marries the heat the keer feelsed 20 reveals hith test like and the diagneed future marries the heat the heat the diagnees of the inits, here is a 20 reveals hith test like and the diagneed future marries the heat theat the heat the heat theat the heat theat	E) lateral collateral ligament	
Dev0p: - Muse-Cep. A 16-year-old high-school football player plants his left ford       For a city of the specific as the L advance to a sociated with a positive lacing of the maneuvers, and are not associated with a positive lacing of the maneuvers. The second of the lacing of the maneuvers and are not associated with a positive lacing of the maneuvers. The second of the lacing of the maneuvers and are not associated with a positive lacing of the maneuvers. The lacing of the maneuvers and are not associated with a positive lacing of the lacing of the maneuvers. The lacing of the maneuvers and are not associated with a positive lacing of the lacing of th		
Boyder,Mus-Cey, A. 16-year-old high-school football player plant his left of the functional statistic statistis statistic statistic statistic statistic		
Inclumental       Lachman test.         09-070. + Mus+Csp. A 16-year-old high-school football player plants his left foot to make a cut and feels his left leg give way. He teels a pop in the knee, followed by acute pain. He is evaluated on the field, and examination with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the knee flexed 02° reveals that the bluc an the displaced farbtra materiory than with the holds on 02° reveals that the bluc ante displaced farbtra materiory than with the knee flexed 02° nearbit and the bluc ante displaced farbtra materiory than with the holds on 02° reveals that the bluc ante displaced farbtra materiory than with the knee flexed 02° nearbit and the holds on the space flexed materior of nightry that participate 02° nearbit and the holds on the blue of the diagnosis is cert from the history and carmination. The other conditions is item. MRI can be used to confirm the nearbit of the diagnosis is cert from the history and carmination. The other conditions is item and the displaced farbit materior is an explaced the inster and explane there is now shifts. The other conditions is now of the nearbit materiors in a similar to those of an ALL injery, relearably minilar to these of an ALL injery, relearably minilar to those of an ALL injery, relevants with patieflaw the hignery. Howevere		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed p acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the grant of ACL tears, with the majority of the mand time and women a significant increase in premanue o stocarthritis of the knee. Approximately 50% of patients with this include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the grant ent are E) Patellar dislocation E) Patellar		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed p acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the grant of ACL tears, with the majority of the mand time and women a significant increase in premanue o stocarthritis of the knee. Approximately 50% of patients with this include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the grant ent are E) Patellar dislocation E) Patellar		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed p acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the grant of ACL tears, with the majority of the mand time and women a significant increase in premanue o stocarthritis of the knee. Approximately 50% of patients with this include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the grant ent are E) Patellar dislocation E) Patellar		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed p acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the grant of ACL tears, with the majority of the mand time and women a significant increase in premanue o stocarthritis of the knee. Approximately 50% of patients with this include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the grant ent are E) Patellar dislocation E) Patellar		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed by acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the generative of ACL tears, with the majority of tears in both mean ad women a significant increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his incart concentrative provided in the machine of ACL tears in the main and women a significant increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis in 10–20 years. Findings that help make the diagnosis of ACL tear include a noncontact mechanism of injury, an audble popping sound, early swelling of the initial patient is team. MRI can be used to onfirm the diagnosis, although it is not needed if the diagnosis is clear from the history and examination. The other conditions listed are also sports-related knee injuries, but have different mechanisms of injury in patients team. MRI hatellar teamon targets and a hisp-triding patellar. While the mechanism of injury in patient with patellar team team in the sine the knee is flexed at 90° (the patellar teads and a high-triding patellar. While the mechanism of injury in patient also have symptoms similar to thai of ACL injury, including an audble carkets me and hisp-triding and values fore with axial loading. <u>Patients with patellar teams with patellar teams with patellar teams with and teal sispections that we shown that mechanism of injury in pa</u>		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed by acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the generative of ACL tears, with the majority of tears in both mean ad women a significant increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his incart concentrative provided in the machine of ACL tears in the main and women a significant increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis of the knee. Approximately 50% of patients with his increase in premanute oscoarthritis in 10–20 years. Findings that help make the diagnosis of ACL tear include a noncontact mechanism of injury, an audble popping sound, early swelling of the initial patient is team. MRI can be used to onfirm the diagnosis, although it is not needed if the diagnosis is clear from the history and examination. The other conditions listed are also sports-related knee injuries, but have different mechanisms of injury in patients team. MRI hatellar teamon targets and a hisp-triding patellar. While the mechanism of injury in patient with patellar team team in the sine the knee is flexed at 90° (the patellar teads and a high-triding patellar. While the mechanism of injury in patient also have symptoms similar to thai of ACL injury, including an audble carkets me and hisp-triding and values fore with axial loading. <u>Patients with patellar teams with patellar teams with patellar teams with and teal sispections that we shown that mechanism of injury in pa</u>		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed p acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the grant of ACL tears, with the majority of the mand time and women a significant increase in premanue o stocarthritis of the knee. Approximately 50% of patients with this include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the grant ent are E) Patellar dislocation E) Patellar		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed p acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the grant of ACL tears, with the majority of the mand time and women a significant increase in premanue o stocarthritis of the knee. Approximately 50% of patients with this include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the grant ent are E) Patellar dislocation E) Patellar		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed p acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the grant of ACL tears, with the majority of the mand time and women a significant increase in premanue o stocarthritis of the knee. Approximately 50% of patients with this include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the grant ent are E) Patellar dislocation E) Patellar		
to make a cut and feels his feft leg give way. He feels a pop in the knee, followed p acute pain. He is evaluated a camination with the knee flex, followed 20° reveals that the tibia can be displaced farther anteriorly than with the grant of ACL tears, with the majority of the mand time and women a significant increase in premanue o stocarthritis of the knee. Approximately 50% of patients with this include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the grant ent are E) Patellar dislocation E) Patellar		
by acute pain. He is evaluated on the field, and examination with the knee flexed         20" reveals that the tibic and be displaced function at the inner indicate problems, there is a significant increase in premature osteoarthritis of the knee. Approximately 50% of patients with this injury develop osteoarthritis in 10–20 years. Findings that be present tear         C) Arterior cruciate ligament tear       b) Totial plateau fracture         E) Patellar dislocation       b) Totial plateau fracture         B) Actor cruciate ligament tear       b) Totial plateau fracture         B) Actor cruciate ligament tear       b) Totial plateau fracture         B) Patellar dislocation       b) Totial plateau fractures as a diable popping sound, early swelling of the joint, and the inability to participate in the game attracture as or given sinitation using social chargnosis is clear from the history and examination. The other conditions listed are also sports-related knee injuries, but have different mechanism of injury or physical findings. Patients with patellar tendon rupture are unable to fully extend their knee and examination shows a palpable defect in the patellar figament tears may be similar to thato of CL Ligames, teatmas may be similar to thato of a disponese societal societal societal societal societal societal societal societal societason. Therevouid be no instability on the landen societa	09-070. +Mus+Csp. A 16-year-old high-school football player plants his left foot	Knee injury. 09-070. Anterior cruciate ligament (ACL) tears are the most
10 <sup>o</sup> reveals that the tibic can be displaced farther anteriority than with the minimoved knee. Which one of the following conditions is most likely?       a) Patellar tendon rupture         10) Posterior cruciate ligament tear       c. anterior cruciate ligament tear         10) Total plateau fracture       b) Posterior cruciate ligament tear         10) Total plateau fracture       b) Patellar dislocation         10) Total plateau fracture       b) Patellar dislocation         11) Patellar dislocation       b) Patellar dislocation         12) Posterior cruciate ligament tear       c. anterior cruciate ligament tear         12) Total plateau fracture       b) Posterior such straight-plane activities as climbing statis, biding, or jogging.         12) Patellar dislocation       physical examination using the Lachman test or pivor shift test can be used to further assess whether the ligament is torn. MRI can be used to confirm the diagnosis a clar from the history and cammation. The other conditions listed are also sports-related knee injuries, but have different mechanisms of injury or physical findings. Patients with patellar tears may be similation to that of ACL injury, the examination who box opsterior cruciate ligament itears may be similation to that of ACL injury, the examination with posterior cruciate ligament itears in a beathy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar figament examination would be no instally of the cruciator indiges anterior or take than anterior displacement of the tibin show above dore in returned test in a beathy young male generally involves a higher returned test may be similatin on the		
univolved knee. Which one of the following conditions is most likely?       a significant increase in premature osteoarthritis in 0-20 years. Findings that         B) Posterior cruciate ligament tear       b) Thiab platear fracture       c) Anterior cruciate ligament tear         D) Thiab platear fracture       espinite and the significant increase in premature osteoarthritis in 0-20 years. Findings that         B) Posterior cruciate ligament tear       espinite and the diagnosis of ACL tear include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the game after the injury. Many patients can walk normally and can perform such straight-plane activities as climbing stairs, biking, or jogging.         Pyriosical examination using the Lachman test or pivot. Many patients with patient sitions of injury or physical reasmination. The other conditions listed are also sports-related knee inpires, but have different mechanisms of injury or physical findings. Patients with patiellar tisted are also sports-related knee inpires, but have different mechanisms of injury or physical findings. Patients with patiellar tisted are also sports-related knee inpires, but have different in patients with posterior cruciate ligament tears may be similar to that of ACL injury, the examination would show posterior rather than anterior displacement of the tiblia when the knee is filewed at 90' (the posterior drawer sign). The mechanism of injury of Displat plate transma tears pivol with a sport of the patients with patiellar discloations have symptoms similar to thas of ACL injury, including an audible conductions have symptoms similar to thas of ACL injury, however, examination would show an obvious deformity, but the mechating motin, was alowed from the sist of the set of the patients w		
A) Patellar tendon rupture       of patients with this injury develop oscearthritis in 10–20 years. Findings that help make the diagnosis of ACL tear include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the game after the injury. Many patients can walk normally and can perform such straight-plane activities as climbing statist, biking, or jogging. Physical examination using the Lachman test or pivot shift test can be used to offirm the diagnosis, although it is not needed if the diagnosis is clear from the history and examination. The other conditions listed are also sports-related knee injury. Shares whether the patellar ligament tears may be similar to that of ACL tear conditions listed are also sports-related knee injury. Shares whether the patellar ligament tears may be similar to that of ACL injury, the examination would show an obsterior rather than anterior displacement of the tibla when the knee is fixed at 90° (the posterior drawer sign). The mechanism of injury or physical findings. Patients with patellar tendon rupture are unable to fully extend their knee and examination shows a palpable defect in the patellar ligament tears may be similar to that of ACL lingury, the examination would show an obvious deforming the under show shows a target and under the examination would show posterior rather than anterior displacement of the tibla when the knee is fixed at 90° (the posterior drawer sign). The mechanism of injury or libli plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL injury, the examination would how an obvious deformity, but the patellar may spontaneously relocate prior to the on-field exam. There would be no histaphily on the Lachman maneuver.         10-006. +Mus+Csp. >L* Which one of the followin		
<ul> <li>B) Posterior cruciate ligament tear</li> <li>D) Tobial plateau fracture</li> <li>E) Patellar dislocation</li> <li>Help make the diagnosis of ACL tear include a noncontact mechanism of injury, an audible popping sound, early swelling of the joint, and the inability to participate in the game after the injury. Many patients can walk normally and can perform such straight-plane activities as climbing stairs, biking, or jogging. Physical examination using the Lachman test or privot shift est can be used to onfirm the diagnosis, although it is not needed if the diagnosis is clear from the history and examination. The other conditions listed are also sports-related knee injuries, but have different mechanisms of injury or physical findings. <u>Patients with patellar tearon rupture are unable to fully extend their knee and examination shows a palpable defect in the patellar ligament and a high-riding patella. While the mechanism of finity or physical findings. <u>Patients with patellar tearon rupture are unable to fully extend their knee and examination shows a palpable defect in the patellar ligament and a high-riding patella. While the mechanism of finity or physical findings. <u>Patients with patellar dislocations have somptoms similar to that of ACL injury, including an audible crack or pop and the feeling of the kine and examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There twould be no instability on the section ruptrices and transgeneric ruciate ligament (ACL) tears?</u></u></u></li> <li>Pioto6. +Mus+Csp.&gt;L* Which one of the following is true concerning anterior of patients with ACL tears. The ACL tears is higher in males than in females</li> <li>ACL tears are not associated with any-most obscentritis</li> <li>C) The majority of ACL tears is higher in males than in females</li> <li>ACL tears are not associated with any-most obscentritis</li> <li>D'Enter mathy and tears in expression of super arb may the defect in the </li></ul>		
<ul> <li>D) Tibial plateau fracture</li> <li>E) Patellar dislocation</li> <li>Patellar dislocation</li> <li>Patellar dislocation</li> <li>Physical examination using the Lachman test or pivot shift test can be used to further assess whether the ligament is torn. MRI can be used to confirm the diagnosis, although it is not readed if the diagnosis is clear from the history and examination. The other conditions listed are also sports-related knee injuries, but have different mechanisms of injury or physical findings. Patients with patellar test may be similar to that of ACL injury, the examination would show posterior rather than anterior displacement of the tibla when the knee is fixed at 90° (the posterior drawer sign). The mechanism of injury or physical mechanism of injury in patients with patellar dislocations have symptoms similar to that of ACL injury, the examination would show posterior rather than anterior displacement of the tibla when the knee is fixed at 90° (the posterior drawer sign). The mechanism of injury of tibial plateau fractures in a healthy oung male generally involves a high energy collision causing a valgus force with axial toding. Patients with patellar dislocations have symptoms similar to take of ACL injury, including an audible crack or pop and the feeling of the knee giving war after a twisting motion. Immediately following the injury. However, examination would show an obvious deformity, but the patellar may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.</li> <li>Potenti training with physical contact injury in patients and examination. You not that here ligament (ACL) tears. The ACL tears are caused by physical contact. ANS=D.</li> <li>Portari + ritarion contact or by physical contact. ANS=D.</li> <li>Portari Harken-ACL has pare-old female is seen for a well child examination. You not that here intoris. The most appropriate action would be to A) make no attempt to separate the labia, but monito</li></ul>		
E) Patellar dislocation       perform such straight-plane activities as climbing stars, biking, or jogging.         Physical examination using the Lachman test or pivot shift test can be used to confirm the diagnosis, although it is not needed if the diagnosis is clear from the history and examination. The other conditions listed are also sports-related knee injuries, but have different mechanisms of injury or physical findings. Patients with patellar iterars may be similar to that of ACL Injury, the examination would show posterior rather than anterior displacement of the tibia when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury or physical findings ratig patella. While the mechanism of injury in patients with patellar dislocations have symptoms similar to that of ACL Injury, the examination would show posterior rather than anterior displacement of the tibia when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury of this plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL injury, including an audibe crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patellar ligament (ACL) tears?         A) The incidence of ACL tears is higher in males than in females       Not. Carsar end associated with entry-onset ovecenthritis         B) ACL tears are not associated with entry-onset ovecenthritis       Knee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with phyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. The ACL tears than an diffected knee 1 an estimated 50% of patients with ACL te		
<ul> <li>Physical examination using the Lachman test or pivot shift test can be used to further assess whether the ligament is torn. MRI can be used to confirm the diagnosis, although it is not needed if the diagnosis, although it is not needed if the diagnosis is, although it is not needed if the diagnosis, although it is not needed if the diagnosis is closed at 90° (the posterior cruciate ligament tars may be similar to that of ACL injury, including an audible crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, howere, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.</li> <li>A. The incidence of ACL tears is higher in males than in females B AL to tears. Females have a higher rate of ACL tears shown that neuromuscular training with plyometries and steper and er ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.</li> <li>D. Strength training can prevent ACL tears appropriate action would be to A) mak no attempt to separate the labia, but monitor for signs of urinary tract infections B anot approp</li></ul>		
further assess whether the Tigament is torn. MRT can be used to confirm the diagonosis, although it is not needed if the diagnosis is clear from the history and examination. The other conditions listed are also sports-related knee injuries, but have different mechanisms of injury or physical findings. Patients with patellar tendon rupture are unable to fully extend their knee and examination shows a palpable defect in the patellar ligament and a high-riding patella. While the mechanism of injury in patients with posterior cruciate ligament tears may be similar to that of ACL injury, the examination would show posterior rather than anterior displacement of the tibla when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury of tibial plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have samptoms similar to those of an ACL injury, including an audible crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patient with young mate generally involves an altengthening reduces anterior cruciate ligament (ACL) tears: Finales thave a higher rate of ACL tears than anterior displacement. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. The ACL typically pops audibly when it is torn, usually with on physical contact. MS=b.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears: for ACL tears are not associated with early-onset osteoarthritis O > 10 instability on the Lacher shave a higher rate of ACL tears torn, usually with no physical contact.10-006. +Hus+Csp. >L* Which one of the following		
<ul> <li>examination. The other conditions listed are also sports-related knee injuries, but have different mechanisms of injury or physical findings. Patients with patellar ligament and a high-riding patella. While the mechanism of injury in patients with posterior cruciate ligament tears may be similar to that of ACL Linjury, the examination would show posterior rather than anterior displacement of the tibia when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury of thial plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL linjury, the examination causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL linjury, including an audible crack or pop and the feeling of the knee giving wav after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.</li> <li>10-006, +Mus+Csp.&gt;L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?</li> <li>A) The incidence of ACL tears is higher in males than in females</li> <li>B) ACL tears are not associated with early-onset osteoarthritis</li> <li>C) The majority of ACL tears are caused by physical contact.</li> <li>D) Strength training can prevent ACL tears</li> <li>O) The taining can prevent ACL tears</li> <li>Macin A. Jinewer, MD, BSEE. The terment of choice is topical early of patients, but may take longer.</li> <li>Copyrighed Material. The Peonal Notes. Note Sofe.</li> <li>Page 2017</li> </ul>		
<ul> <li>have different mechanisms of injury or physical findings. Patients with patellar tendon rupture are unable to fully extend their knee and examination shows a palpable defect in the patellar ligament and a high-riding patella. While the mechanism of injury in patients with posterior cruciate ligament tears may be similar to that of ACL injury, the examination would show posterior rather than anterior displacement of the tibia when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury of tibial plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to thase of an ACL injury, including an audible crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.</li> <li>10-006. +Mus+Csp. &gt;L* Which one of the following is true concerning anterior displacement (ACL) tears?</li> <li>A) The incidence of ACL tears is higher in males than in females</li> <li>B) ACL tears are not associated with early-onset osteoarthritis</li> <li>C) The majority of ACL tears are axied by physical contact</li> <li>D) Strength training can prevent ACL tears</li> <li>Patella may spontaneously relocate prior to the on-field exam that is not simply cosmetic, as 20%-40% of females with this condition (generally c6 years of age) have uniany symptoms. ANS=E. The treatment of choice is topical estrogence rapplied each evening. It is effective within 1 week in most parterior. Paper and be applied and the and the and the and the in gring that we</li> </ul>		
tendon rupture are unable to fully extend their knee and examination shows a palpable defect in the patellar ligament and a high-riding patella. While the mechanism of injury in patients with posterior cruciate ligament tears may be similar to that of ACL injury, the examination would show posterior rather than anterior displacement of the tibla when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury, fielding an addibe crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following is millar to those of an ACL injury, including an addibe crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?Kree injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears are not associated with early-onset osteoarthritis C) The majority of ACL tears are caused by physical contact D) Strength training can prevent ACL tearsKree injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears fremales have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that he labia minora seem to ad		· · ·
a palpable defect in the patellar ligament and a high-riding patella. While the mechanism of injury in patients with posterior cruciate ligament tears may be similar to that of ACL injury, the examination would show posterior rather than anterior displacement of the tibia when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury of tibial plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL injury, including an audible crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears? A) The incidence of ACL tears is higher in males than in females B) ACL tears are out associated with early-onset osteoarthritis C) The majority of ACL tears are caused by physical contact D) Strength training can prevent ACL tears D) Strength training can prevent ACL tears o attempt to separate the labia, but monitor for signs of urinary tract infections net except for about 4 mm at th upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infections net except for separation C) have theolid's mother apply genet refer to a pediatric surgeon for separation C) have theolid's mother apply genet refer to a pediatric surge		· · · · · · · · · · · · · · · · · · ·
<ul> <li>similar to that of ACL injury, the examination would show posterior rather than anterior displacement of the tibia when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury of tibial plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL injury, including an audible crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patellar may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.</li> <li>10-006. +Mus+Csp. &gt;L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?</li> <li>A) The incidence of ACL tears is higher in males than in females</li> <li>B) ACL tears are not associated with early-onset osteoarthritis</li> <li>C) The majority of ACL tears are caused by physical contact</li> <li>D'strength training can prevent ACL tears</li> <li>on tent hat ha labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentle</li> <li>Copyrighted Material. ITE Personal Notes. Not for Sale.</li> <li>Page S00 f10</li> </ul>		
than anterior displacement of the tibia when the knee is flexed at 90° (the posterior drawer sign). The mechanism of injury of tibial plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL injury, including an audible crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears? A) The incidence of ACL tears is higher in males than in females B) ACL tears are not associated with early-onset osteoarthritis C) The majority of ACL tears are caused by physical contact D) Strength training can prevent ACL tearsKnee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears are caused by physical contact D) Strength training can prevent ACL tearsKnee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior or truciate ligament (ACL) tears are caused by physical contact D) Strength training can prevent ACL tearsKnee injury. 10-006. Anterior cruciate ligament (ACL) tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs o		
posterior drawer sign). The mechanism of injury of tibial plateau fractures in a healthy young male generally involves a high energy collision causing a valgus force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL injury, including an audible crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?Knee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears are not associated with early-onset osteoarthritis C) The majority of ACL tears are caused by physical contact D) Strength training can prevent ACL tearsKnee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. The ACL tears in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B refer to a pediatric surgeon for separation C) have the child's mother apply gente refer to a pediatric surgeon for separation C) have the child's mother apply genterLabial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simpl		
healthy young male generally involves a high energy collision causing a valgus force with axial loading. <u>Patients with patellar dislocations have symptoms</u> <u>similar to those of an ACL injury, including an audible crack or pop and the</u> <u>feeling of the knee giving way after a twisting motion. Immediately following</u> the injury, however, examination would show an obvious deformity, but the <u>patella may spontaneously relocate prior to the on-field exam</u> . There would be no instability on the Lachman maneuver. <b>10-006.</b> +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears? A) The incidence of ACL tears is higher in males than in females B) ACL tears are not associated with early-onset osteoarthritis C) The majority of ACL tears are caused by physical contact D) Strength training can prevent ACL tears D) Strength training can prevent ACL tears of the healthy young male generally involves a high energy collision causing a valgus force with axial loading. <u>Patients with patellar dislocations have symptoms</u> Knee injury. <u>10-006</u> . Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. Females have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. <b>ANS=D</b> . Labial adhesion. <b>07-113</b> . Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%–40% of females with this condition (generally <6 years of age) have urinary symptoms. <b>ANS=E</b> . The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.		
force with axial loading. Patients with patellar dislocations have symptoms similar to those of an ACL injury, including an audible crack or pop and the feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?Knee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears are not associated with early-onset osteoarthritis C) The majority of ACL tears are caused by physical contact D) Strength training can prevent ACL tearsKnee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. Females have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentle Copyrighted Material. The Personal Notes. Not for Sale.Page 89 of 170Copyrighted Material. The Personal Notes. Not for Sale.Page 89 of 170Mario A. J		
feeling of the knee giving way after a twisting motion. Immediately following the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?Knee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears are not associated with early-onset osteoarthritis C) The majority of ACL tears are caused by physical contact D) Strength training can prevent ACL tearsKnee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. Females have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separation c) have the child's mother apply gentelLabial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%-40% of females with this condition (generally <6 years of age) have urinary symptoms. ANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.Copyrighted Material. ITE Personal Notes. Not for Sale.Pag 89 of 10<		force with axial loading. Patients with patellar dislocations have symptoms
the injury, however, examination would show an obvious deformity, but the patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?Knee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears is higher in males than in females B) ACL tears are not associated with early-onset osteoarthritis D) Strength training can prevent ACL tearsKnee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. Females have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mm at the uper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentleLabial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%-40% of females with this condition (generally <6 years of age) have urinary symptoms. ANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.Copyrighted Material. TIE Personal Notes. Not for Sale.Page 89		
patella may spontaneously relocate prior to the on-field exam. There would be no instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?Knee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. Females have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply genterLabial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%-40% of females with this condition (generally <6 years of age) have urinary symptoms. ANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.		
Ino instability on the Lachman maneuver.10-006. +Mus+Csp. >L* Which one of the following is true concerning anterior cruciate ligament (ACL) tears?Knee injury. 10-006. Anterior cruciate ligament. Three trials have shown that neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. Females have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You no te that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply genterANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most aptients, but may take longer.		
cruciate ligament (ACL) tears?neuromuscular training with plyometrics and strengthening reduces anterior cruciate ligament (ACL) tears. Females have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentleLabial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%-40% of females with this condition (generally <6 years of age) have urinary symptoms. ANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.Copyrighted Material. ITE Personal Notes. Not for Sale.Page 89 0f 170		no instability on the Lachman maneuver.
A) The incidence of ACL tears is higher in males than in females       cruciate ligament (ACL) tears. Females have a higher rate of ACL tears than males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.         07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mu at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply genter       Labial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%-40% of females with this condition (generally <6 years of age) have urinary symptoms. ANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.		
B) ACL tears are not associated with early-onset osteoarthritis       males. Early-onset osteoarthritis occurs in the affected knee in an estimated 50% of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.         07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply genter       Labial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%-40% of females with this condition (generally <6 years of age) have urinary symptoms. ANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.		
C) The majority of ACL tears are caused by physical contact       of patients with ACL tears. The ACL typically pops audibly when it is torn, usually with no physical contact. ANS=D.         07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentle       Labial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%-40% of females with this condition (generally <6 years of age) have urinary symptoms. ANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.		
D) Strength training can prevent ACL tears       usually with no physical contact. ANS=D.         07-113. +Int+Cca. A 3-year-old female is seen for a well child examination. You note that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentle       Labial adhesion. 07-113. Labial adhesion is a common clinical problem that is not simply cosmetic, as 20%-40% of females with this condition (generally <6 years of age) have urinary symptoms. ANS=E. The treatment of choice is topical estrogen cream applied each evening. It is effective within 1 week in most patients, but may take longer.		
note that her labia minora seem to adhere together except for about 4 mm at the upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentle Copyrighted Material. ITE Personal Notes. Not for Sale. Page 89 of 170 Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>	D) Strength training can prevent ACL tears	usually with no physical contact. ANS=D.
upper aspect under the clitoris. The most appropriate action would be to A) make no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentle Copyrighted Material. ITE Personal Notes. Not for Sale. Page 89 of 170 Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>		
no attempt to separate the labia, but monitor for signs of urinary tract infection B) refer to a pediatric surgeon for separation C) have the child's mother apply gentle Copyrighted Material. ITE Personal Notes. Not for Sale. Page 89 of 170 Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we	6 1	
refer to a pediatric surgeon for separation C) have the child's mother apply gentle Copyrighted Material. ITE Personal Notes. Not for Sale. Page 89 of 170 Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we		
	refer to a pediatric surgeon for separation C) have the child's mother apply gentle	patients, but may take longer.
	Copyrighted Material. ITE Personal Notes. Not for Sale. Page 89 of 170 receive."	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
traction twice daily D) prescribe a lubricating jelly to be applied daily until the labia separate E) prescribe a topical estrogen cream to be applied daily until the labia separate	
<ul> <li>108-199. +Non+Adm. A 45-year-old male was admitted to the hospital for nausea resulting from chemotherapy for colon cancer. He has no other chronic diseases and takes no routine medications. He was mildly dehydrated on admission and has been receiving intravenous fluids (D5 ½-normal saline with potassium chloride) at slightly higher than maintenance rates through an indwelling port for the last 24 hours. The nausea is being controlled by antiemetics, and his condition is improving. Results of routine blood work at the time of admission and from the following morning are shown below.</li> <li><i>Admission Following Morning</i></li> <li>Glucose 109 mg/dL (N 65–110) 371 mg/dL</li> <li>BUN 13 mg/dL (N 7–21) 9 mg/dL</li> <li>Creatinine 0.9 mg/dL (N 0.6–1.6) 0.9 mg/dL</li> <li>Sodium 143 mmol/L (N 136–144) 129 mmol/L</li> <li>Potassium 3.7 mmol/L (N 3.6–5.1) 6.6 mmol/L</li> <li>Chloride 110 mmol/L (N 101–111) 108 mmol/L</li> <li>Total CO2 20 mmol/L (N 22–32) 22 mmol/L</li> <li>Which one of the following would be the most appropriate next step?</li> <li>A) Start an intravenous insulin drip</li> <li>B) Order blood work taken from a peripheral vein</li> <li>C) Restrict the patient's free water intake</li> <li>D) Switch from normal saline to hypertonic saline</li> </ul>	Labs, abnormal. <b>08-199. ANS=B.</b> Physicians should avoid reacting to laboratory values without considering the clinical scenario. This patient presented with mild dehydration and normal laboratory values. Although he is improving clinically, his laboratory values show multiple unexpected results. The most noticeable is the severely elevated glucose, because he has no history of diabetes mellitus or use of medications that could cause this effect. Similarly, the elevated potassium and decreased sodium suggest profound electrolyte abnormalities. <u>Most likely, the laboratory technician drew blood from the patient's indwelling port without discarding the first several milliliters. Thus, the blood was contaminated with intravenous fluids, resulting in the erroneous results. A repeat blood test from a peripheral vein should give more accurate results.</u>
E) Treat with diureties <b>08-239</b> . +Car+Adm. A 60-year-old white male is noted to have a "rocking motion" of his precordium, associated with mild heart failure, about 3 months after an acute anterior myocardial infarction. He denies any current chest pain. His EKG is shown in <b>Figure 9</b> . The most likely diagnosis is A) pericarditis B) ruptured papillary muscle C) pulmonary embolus D) left ventricular aneurysm E) left ventricular hypertrophy.	Left ventricular (LV) aneurysm. <b>08-239. ANS=D.</b> The clinical history and the examination suggest the possibility of a left ventricular (LV) aneurysm. The EKG demonstrates an anteroseptal infarction pattern with persistent ST-segment elevation. When ST elevation persists for 3 or more weeks following myocardial infarction an LV aneurysm should be considered. LV aneurysms often lead to symptoms of heart failure, severe angina, ventricular arrhythmias, and mural thrombosis. Thrombus formation sometimes results in systemic embolization. Two dimensional echocardiography, radionuclide ventriculography, and cardiac MRI are useful to confirm the diagnosis. Pericarditis is associated with ST elevation, but in a diffuse pattern with J-point elevation and a concave morphology of the ST segment. A ruptured papillary muscle would result in acute heart failure with a murmur of mitral regurgitation within the first few weeks following a myocardial infarction. No characteristic EKG abnormalities are found with this complication. Pulmonary embolism and left ventricular hypertrophy are sometimes associated with EKG abnormalities, but not ST elevation, and have a different clinical presentation.
<ul> <li>09-184. +Ref+Cfp. A 42-year-old asymptomatic female presents for a routine evaluation. On examination her uterus is irregularly enlarged to the size seen at approximately 8 weeks gestation. Pelvic ultrasonography shows several uterine fibroid tumors measuring &lt;5 cm. The patient does not desire future fertility. Which one of the following would be the most appropriate treatment option?</li> <li>A) Laparoscopic myomectomy</li> <li>B) Hysterectomy</li> <li>C) A gonadotropin-releasing hormone (GnRH) agonist</li> <li>D) An oral contraceptive</li> </ul>	Leiomyomas. <b>09-184. ANS=E.</b> Uterine fibroid tumors (leiomyomas) are the most common female reproductive tract tumors, with some evidence suggesting that the cumulative incidence in women ages 25–45 is approximately 30%. Symptoms related to fibroids can include menorrhagia, pelvic pain, obstructive symptoms, infertility, or pregnancy loss. However, many fibroids are asymptomatic and are discovered incidentally, with expectant management being the treatment of choice in this situation (SOR B). The risk of malignant leiomyosarcoma is exceedingly small (0.23% in one study) and there is a risk of side effects or complications from other treatment modalities. For women who are symptomatic, the data is Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
E) Observation	insufficient to allow conclusions to be made about the most appropriate therapy. Surgical options include myomectomy, hysterectomy, uterine artery embolization, and myolysis, but data to allow direct comparison is lacking. With the exception of trials of GnRH-agonist therapy as an adjunct to surgery, there is not enough randomized trial data to support the use of medical therapies (oral contraceptives, NSAIDs, progestins) in the treatment of women with symptomatic fibroids.
<ul> <li>08-164. +Int+Csp. A 45-year-old white male consults you because of a painless, circular, 1-cm white spot inside his mouth, which he noticed 3 days ago. You are treating him with propranolol (Inderal) for hypertension, and you know him to be a heavy alcohol user. After a careful physical examination, your tentative diagnosis is leukoplakia of the buccal mucosa. You elect to observe the lesion for 2 weeks. On the patient's return, the lesion is still present and unchanged in appearance. The best course of management at this time is to A) reassure the patient and continue to observe</li> <li>B) discontinue propranolol</li> <li>C) treat with oral nystatin</li> <li>D) order a fluorescent antinuclear antibody test</li> <li>E) perform a biopsy of the lesion</li> </ul>	Leukoplakia. <b>08-164.</b> Leukoplakia is a white keratotic lesion seen on mucous membranes. <b>ANS=E</b> . Irritation from various mechanical and chemical stimuli, including alcohol, favors development of the lesion. <b>Leukoplakia can occur in any area of the mouth and usually exhibits benign hyperkeratosis on biopsy</b> . On long-term follow-up, <b>2%–6% of these lesions will have undergone</b> <u>malignant transformation into squamous cell carcinoma</u> . Oral nystatin would not be appropriate treatment, as this lesion is not typical of oral candidiasis. <u>Candidal lesions are usually multiple and spread quickly when left untreated</u> . A fluorescent antinuclear antibody test is also not indicated, as <b>the oral lesions of lupus erythematosus are typically irregular, erosive, and necrotic</b> . An idiosyncratic reaction to propranolol is unlikely in this patient.
<ul> <li>08-061. +Psy+Adm. A 49-year-old female who takes multiple medications has a chemistry profile as part of her routine monitoring. She is found to have an elevated calcium level. All other values on the profile are normal, and the patient is not currently symptomatic. Follow-up testing reveals a serum calcium level of 11.2 mg/dL (N 8.4–10.2) and an intact parathyroid hormone level of 80 pg/mL (N 10–65). Which one of the following should be discontinued for 3 months before repeat laboratory evaluation and treatment?</li> <li>A) Lithium</li> <li>B) Furosemide (Lasix)</li> <li>C) Raloxifene (Evista)</li> <li>D) Calcium carbonate</li> <li>E) Vitamin D</li> </ul>	Lithium. 08-061. Lithium therapy can elevate calcium levels by elevating parathyroid hormone secretion from the thyroid gland. ANS=A. This duplicates the laboratory findings seen with mild primary hyperparathyroidism. If possible, <u>lithium should be discontinued for 3</u> months before reevaluation (SOR C). This is most important for avoiding unnecessary parathyroid surgery. Vitamin D and calcium supplementation could contribute to hypercalcemia in rare instances, but they would not cause elevation of parathyroid hormone. Raloxifene has actually been shown to mildly reduce elevated calcium levels, and furosemide is used with saline infusions to lower significantly elevated calcium levels.
<b>07-236.</b> +Gas+Adm. A 40-year-old white male has elevated transaminase levels at a routine visit, but your clinical evaluation shows no apparent cause. At a follow- up visit 6 months later they remain elevated. He remains asymptomatic and has a normal physical examination. You order further tests, including serologic blood analyses. Which one of the following imaging studies would be most appropriate? A) Abdominal ultrasonography with Doppler B) CT with contrast C) MRI of the abdomen D) Magnetic resonance angiography (MRA) of the abdomen E) Positron emission tomography (PET) of the abdomen	Liver disease. 07-236. Ultrasonography with Doppler should be the first imaging study ordered in the evaluation of suspected liver disease. It is widely available, relatively inexpensive, involves no radiation or contrast exposure, and provides helpful information regarding the appearance of the liver and blood flow in the portal and hepatic veins. If hepatic nodules are found on ultrasonography, CT is indicated to help differentiate between benign and malignant lesions. MRI is best used as a follow-up study to determine whether lesions have changed in appearance or size. MRA can detect portal hypertension, portal flow volume and direction, and portal vein thrombosis. PET scans can detect the presence of liver metastases from certain cancers, but are not used as an initial test for evaluating liver disease. ANS=A.
<b>09-074.</b> +Gas+Adm. An otherwise healthy 40-year-old male comes to your office for follow-up of elevated liver enzymes on an insurance examination. He is 173 cm (68 in) tall and weighs 113 kg (250 lb) (BMI 37.7 kg/m2). He says he drinks about two beers per week. Findings are normal on a physical examination, <b>except</b> for a slightly enlarged liver. AST and ALT levels are twice the upper limits of normal. Which one of the following would be the most appropriate next step? A) A liver biopsy B) Ultrasonography of the liver C) Colonoscopy D) Testing for viral hepatitis E) Repeat AST and ALT levels in 3 months	Liver disease. 09-074. Nonalcoholic fatty liver. ANS=D. Nonalcoholic fatty liver disease is the most likely diagnosis in this patient, but hepatitis B and C should be ruled out. The patient's alcohol consumption of less than two drinks per week makes alcoholic fatty liver disease unlikely. A liver biopsy would not be appropriate at this time. Liver ultrasonography should be considered after hepatitis B and C are ruled out. The patient is younger than the recommended screening age for colonoscopy.
<ul> <li>08-206. +Res+Com. Of the following, which one causes the most deaths in the United States?</li> <li>A) Colorectal cancer</li> <li>B) Breast cancer</li> <li>C) Prostate cancer</li> <li>D) Lung cancer</li> </ul>	Lung cancer. <b>08-206.</b> Lung cancer is the leading cause of cancer-related deaths in the United States. <b>ANS=D.</b> In 2006, lung cancer caused more deaths than colorectal, breast, and prostate cancers combined.
<ul> <li>08-227. +Res+Com. The manager of a local chicken processing plant asks about arranging screening tests for his 100 employees. Several are smokers, and one individual was recently found to have lung cancer. He asks what the best and most cost-effective way to screen for this would be. Based on randomized, controlled trials and recommendations by the U.S. Preventive Services Task Force, you would advise</li> <li>A) annual chest radiographs</li> <li>B) annual sputum cytology</li> <li>C) both sputum cytology and chest radiographs annually</li> <li>D) annual spiral CT</li> </ul>	Lung cancer. <b>08-227.</b> Screening. The U.S. Preventive Services Task Force states that there is insufficient evidence to recommend either for or against screening for cancer of the lung. <b>ANS=E</b> . To date, screening has not been shown to decrease the number of deaths from lung cancer. Case control studies done in Japan suggest improved mortality with annual chest radiographs, and a large randomized, controlled trial is now under way. While screening CT in high-risk groups would identify a high percentage of stage 1 lung cancers, there is no data available at this time from randomized studies to show that this is worthwhile. Studies of this issue are also currently under way, however.
E) no screening for asymptomatic individuals <b>09-105.</b> +Res+Adm. A 40-year-old male with a 20-pack-year history of smoking is concerned about lung cancer. He denies any constitutional symptoms, or breathing or weight changes. You encourage him to quit smoking and order which one of the following? A) No testing B) A chest radiograph C) Low-dose CT of the chest D) Sputum cytology <b>10-175.</b> +Hem+Adm. A 45-year-old female presents to your office because she has had a lump on her neck for the past 2 weeks. She has no recent or current respiratory symptoms, fever, weight loss, or other constitutional symptoms. She has a history of well-controlled hypertension, but is otherwise healthy. On Copyrighted Material. ITE Personal Notes. Not for Sale. Page 91 of 170	Lung cancer. <b>09-105. Risk.</b> This patient is at risk for lung cancer, even with no symptoms. He should be encouraged to stop smoking, especially if he has concerns that may help motivate him to quit. No study has demonstrated that screening with any of the tests listed improves survival, and no major organization endorses lung cancer screening. <b>ANS=A.</b> Lymph node enlarged. <b>10-175.</b> Cervical. <b>ANS=C.</b> There is limited evidence to guide clinicians in the management of an isolated, enlarged cervical lymph node, even though this is a common occurrence. Evaluation and management is guided by the presence or absence of inflammation, the duration and size of the node, and Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>examination you note a nontender, 2-cm, soft node in the anterior cervical chain. The remainder of the examination is unremarkable.</li> <li>Which one of the following would be most appropriate at this point?</li> <li>A) Immediate biopsy</li> <li>B) Treatment with antibiotics, then a biopsy if the problem does not resolve</li> <li>C) Monitoring clinically for 4–6 weeks, then a biopsy if the node persists or enlarges</li> <li>D) Serial ultrasonography to monitor for changes in the node</li> <li>08-121. +Psy+Mhe. A 36-year-old female has been seen multiple times in the past</li> </ul>	associated patient symptoms. In addition, the presence of risk factors for malignancy should be taken into account. Immediate biopsy is warranted if the patient does not have inflammatory symptoms and the lymph node is >3 cm, if the node is in the supraclavicular area, or if the patient has coexistent constitutional symptoms such as night sweats or weight loss. Immediate evaluation is also indicated if the patient has risk factors for malignancy. Treatment with antibiotics is warranted in patients who have inflammatory symptoms such as pain, erythema, fever, or a recent infection. In a patient with no risk factors for malignancy and no concerning symptoms, monitoring the node for 4–6 weeks is recommended. If the node continues to enlarge or persists after this time, then further evaluation is indicated. This may include a biopsy or imaging with CT or ultrasonography. The utility of serial ultrasound examinations to monitor lymph nodes has not been demonstrated. Malingering. <b>08-121. ANS=D.</b> This patient most likely is malingering, which is to
several months for various pain-related complaints. On each occasion, no physical or laboratory findings were found to explain the symptoms. The patient is involved in a worker's compensation case and could make a significant amount of money if it is demonstrated that her physical complaints are related to work conditions. Which one of the following diagnoses characterizes her unexplained physical symptoms? A) Somatization disorder B) Conversion disorder C) Hypochondriasis D) Malingering	purposefully feign physical symptoms for external gain. Factitious disorder involves adopting physical symptoms for unconscious internal gain, such as deriving comfort from taking on the role of being sick. Somatization disorder is related to numerous unexplained physical symptoms that last for several years and typically begin before 30 years of age. Conversion disorder involves a single voluntary motor or sensory dysfunction suggestive of a neurologic condition, but not conforming to any known anatomic pathways or physiologic mechanisms.
<b>07-118.</b> +Pbs+Com. Which one of the following statements is true regarding malpractice cases? A) The majority of patients who sustain medical injury do not sue the physician B) Family physicians are the most frequently sued physicians C) The majority of malpractice claims involve trivial injury D) Plaintiffs typically win cases brought to trial E) The time between injury and resolution of a case is typically 2 years	Malpractice cases. 07-118. ANS=A. The vast majority of medically injured patients do not sue. The usual time to resolution of malpractice cases is 5 years, although many take 6 years or more to resolve. Obstetrician-gynecologists are the most frequently sued doctors. Malpractice claims typically involve severe injuries or death. Plaintiffs win only one-fifth of cases brought to court.
<ul> <li>07-155. +Non+Cca. You see a 16-year-old white female for a preparticipation evaluation for volleyball. She is 183 cm (72 in) tall, and her arm span is greater than her height. She wears contacts for myopia. Which one of the following should be performed at this time?</li> <li>A) An EKG</li> <li>B) Echocardiography</li> <li>C) A stress test</li> <li>D) A chest radiograph</li> <li>E) Coronary MRI angiography</li> </ul>	Marfan's syndrome. <b>07-155.</b> Marfan's syndrome is an autosomal dominant disease manifested by skeletal, ophthalmologic, and cardiovascular abnormalities. <b>ANS=B.</b> Men taller than 72 in and women taller than 70 in who have two or more manifestations of Marfan's disease should be screened by echocardiography for associated cardiac abnormalities. Any of these athletes who have a family history of Marfan's syndrome should be screened, whether they have manifestations themselves or not. If there is no family history, echocardiography should be performed if two or more of the following are present: cardiac murrurs or clicks, kyphoscoliosis, anterior thoracic deformity, arm span greater than height, upper to lower body ratio more than 1 standard deviation below the mean, myopia, or an ectopic lens. Patients with Marfan's syndrome who have echocardiographic evidence of aortic abnormalities should be placed on B-blockers and monitored with echocardiography every 6 months.
<ul> <li>08-094. +Gas+Cca. A previously healthy 3-year-old male is brought to your office with a 4-hour history of abdominal pain followed by vomiting. Just after arriving at your office he passes bloody stool. A physical examination reveals normal vital signs, and guarding and tenderness in the right lower quadrant. A rectal examination shows blood on the examining finger. Which one of the following is the most likely diagnosis?</li> <li>A) Appendicitis</li> <li>B) Viral gastroenteritis</li> <li>C) Midgut volvulus</li> <li>D) Meckel's diverticulum</li> <li>E) Necrotizing enterocolitis</li> </ul>	Meckel's diverticulum. <b>08-094.</b> Meckel's diverticulum is the most common congenital abnormality of the small intestine. <b>ANS=D.</b> It is prone to bleeding because it may contain heterotopic gastric mucosa. Abdominal pain, distention, and vomiting may develop if obstruction has occurred, and the presentation may mimic appendicitis. Children with appendicitis have right lower quadrant pain, abdominal tenderness, guarding, and vomiting, but not rectal bleeding. With acute viral gastroenteritis, vomiting usually precedes diarrhea (usually without blood) by several hours, and abdominal pain is typically mild and nonfocal with no localized tenderness. The incidence of midgut volvulus peaks during the first month of life, but it can present anytime in childhood. Volvulus may present in one of three ways: as a sudden onset of bilious vomiting and abdominal pain in the neonate; as a history of "feeding problems" with bilious vomiting that now appears to be due to bowel obstruction; or, less commonly, as a failure to thrive with severe feeding intolerance. Necrotizing enterocolitis is typically seen in the neonatal intensive-care unit, occurring in premature infants in their first few weeks of life. The infants are ill, and signs and symptoms include lethargy, irritability, decreased oral intake, abdominal distention, and bloody stools. A plain abdominal film showing pneumatosis intestinalis, caused by gas in the intestinal wall, is diagnostic of this disease.
<b>09-178.</b> +Pbc+Com. Increasing patient copayments for prescription medications results in A) an increase in the number of prescriptions filled by low-income medical-assistance Recipients B) little demonstrable change in purchasing patterns C) increased hospitalizations for patients with chronic illnesses D) improved efficiency in the utilization of outpatient medical services	Medicaid. <b>09-178.</b> Copayments. <b>ANS=C.</b> Increasing prescription copayments results in a decrease in the number of prescriptions filled and worsening clinical outcomes for patients with heart failure, diabetes mellitus, hyperlipidemia, and schizophrenia. With each 10% increase in copayments, it is estimated that overall prescription spending decreases 2%–6%. The cited study found that up to 25% of Medicaid recipients, faced with a copayment, could not afford to fill at least one prescription in the previous year.
<b>09-173.</b> +Pbs+ Com .To be eligible for Medicare hospice benefits, a patient must         A) be enrolled in Medicare Part D         B) be referred to hospice by a physician         C) be debilitated and moribund         D) have a malignancy         E) have an estimated life expectancy of less than 6 months         Copyrighted Material. ITE Personal Notes. Not for Sale.	Medicare. 09-173. Hospice benefits. ANS=E. To be eligible for Medicare hospice benefits, a patient must be eligible for Medicare Part A (hospital insurance). Although most hospice referrals come from physicians, nurses, and social workers, a patient's family members can also make a hospice referral. The patient must sign a statement choosing hospice, and both the patient's physician and the hospice medical director must certify that the patient has a terminal illness with an Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

<ul> <li>a stranda life spectary of los Maré Smothers. There is no suggement that the information is defined with a second s</li></ul>	Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
A) Routing density and a         D) Custoff an array for the set of the set		estimated life expectancy of less than 6 months. There is no requirement that the
B) Classified       Paperine loader every 3 years, ANS-D. Medicare does not pay for cassadiant of participation of the case of the cas	10-015. +Pbs+Com.* Medicare pays for which one of the following?	Medicare. 10-015. Medicare pays for some preventive measures, including
C Hearing and       care, musing home care (except limited still an any equip limited still an any equip limited still any equip limit still any equif still streprine limit still still streprine limit s	A) Routine dental care	pneumococcal vaccine, influenza vaccine, annual mammography, and a
D Screening mammegaphy 10-161. +190+Con. Which one of the following is new regarding hospice? 10-161. +190+Con. Which one of the following is new regarding hospice? 10-161. +190+Con. Which one of the following is new regarding hospice? 10.161. +190+Con. Which one of the following is new regarding hospice? 10.162. +190+Con. Which one of the following is new regarding hospice? 10.162. +190+Con. Which one of the following is new regarding hospice? 10.162. +190+Con. Which one of the following is new regarding hospice? 10.162. +190+Con. Which one of the following is new regarding hospice? 10.162. +190+Con. Which one of the following is new regarding hospice? 10.162. +190+Con. Hospice. Hospice hospice? 10.162. +190+Con. Hospice. Hospice hospice? 10.162. +190+Con. Hospice. Hospice hospice? 10.162. +190+Con. Hospice. Hospice hospice? 10.162. +190+Con. Hospice. Hospice. Hospice hospice? 10.162. +190+Con. Hospice. Hospice hospice? 10.162. +190+Con. Hospice. Hospice hospice? 10.162. +190+Con. Hospice. Hospic	B) Custodial nursing-home care	
Definit - three Const. Which one of the following is time regarding hospic:         A Hospic hospic to hospic be multissend of the patient lives beyond the estimated for multi hier decimations. Are constructed in the construction of the following is the estimated for multi hier decimations. Are multi the estimated for multi hier decimations. Are multi the estimate of the physician can be informable which one of the following is most hier decimation. Are multi the estimation of the galaxies. The estimation of the estimation of the galaxies are multi the estimation of the galaxies. The estimation of the galaxies are decimated in the estimated for multi hier decimation. Are multi the estimation of the galaxies. The estimation of the galaxies are described by the physician can bill decimate the following?           Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?         Definest mining physician canso bill decimate the following?		care, nursing-home care (except limited skilled nursing care), dentures, routine
A) Hospice benefits end if the patient lives beyond the estimated 6-month life expectancy B) A do not resuscitate (DNR) under is required for a patient receiving Multian C) Patients in hospic equator receive cheroofterapy. Bood transfisions, or radiation resumes a patient construction. E) And contrasting of the patient of an offic with the patient of the offic with the patient of the patient of an offic with the patient of the offic with the patient of the offic with the patient of the patient of the offic with the patient of the patient of the patient of the offic with the patient	D) Screening mammography	
expecting. b) Ado-accenteristic (DNR) order is required for a putient receiving Medianes boyies benefits () Platients in horpits and receives chemothering. Mood transfusions, or D) Platients in horpits and receives chemothering. Mood transfusions, or D) Platients must be referred to hospice by their physician (E. Any cerning lupication of hospice by their physician (E. Any cerning lupication cannot bill fires) (D) Modianer Part D) (D) Modianer Par		
bospice banding         CP Patients in hooging cannot receive chemotherapy. Bold mandiaions, or maliation in treatments         construction           D Patients make the returned patient with a file spectancy of months is eligible         construction         construction           D Patients make the returned patient with a file spectancy of months is eligible         construction         construction           D And treatments         patients make the returned patients with a file spectancy of months is eligible         construction           D And treatments         patient make the returned patients with a file spectancy of months is eligible         construction           D Modicare Part A         patient make the returned patient with a file spectancy of months is eligible         construction           D Modicare Part C         CM Modicare Part C         construction         construction           D Modicare Part C         CM Modicare Part C         construction         construction           D Modicare Part C         months in secosity months in eligible         construction         construction           D Modicare Part C         months in secosity months in eligible         construction		
C Parissi in hoopie cannot receive chemotherup, block transfissions, or maliation treatments in borpice and receive chemotherup, block transfissions, or maliation treatments is provide symptometarie. Platents cannot D / Parism must be referred to hospice by their physician (2) Any terminal particular distribution of the platents and the provide symptometarie. All heights are barreling physician to spice care. Her attending physician can bill through which one of the following? All distribution are the provide symptometaries and the physician services. Medicare Part A (2) Medicare Part A (2) Medicare Part A (2) Medicare Part A (2) Medicare Part C (2) Medicare Part C (2) Medicare Part C (3) Medicare Part C (3) Medicare Part C (3) Medicare Part C (4) Medicare Mart A (4) Medicare	B) A do-not-resuscitate (DNR) order is required for a patient receiving Medicare	
radiation if the goal of the trainers is no provide symptom relief. Plaiests can be preserved to hopkice <b>X</b> ynowide symptom relief. Plaiests can be preserved to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide symptom relief. Plaiests can be referred to hopkice <b>X</b> ynowide regime with hepkican Part A and Part B coverage. These Plaiests and plaiest and ynow relief. Plaiest can be relief with the goal of hem health services. Net not consult of reliable reliable with reliable reliable with reliable reliable to the reliable rel	hospice benefits	order to enroll in hospice, but it does require that patients seek only palliative, not
D) Patients must be referred to hospice by their physician         referred to hospice by anyone, including mustars, accial workers, family members, or fields.           Boyer care, Her attending physician can bill through which one of the following?         Molicare, 10-173. hospice at home. ANS-B. A long as the attending physician can bill through which one of the following?           D) Medicare Part D         Molicare, Part C         Molicare, Part C           D) Medicare Part D         Molicare, Part D         Molicare, Part C           D) Medicare Part D         Molicare, Part C         Molicare, Part C           D) Medicare Part D         Molicare, Part C         Molicare, Part C           D) Medicare Part D         Molicare, Part C         Molicare, Part C           D) Medicare Part D         Molicare, Part C         Molicare, Part C           D) Medicare Part D         Molicare, Part C         Molicare, Part C           D) Molicare Part D         Main a through sensity, Part A         Molicare, Part C           D) Molicare Part D         Main a through sensity, Part A         Molicare Part D           D) Molicare Part D         Main a through sensity, Part A         Molicare Part A           D) Molicare Part D         Main a through sensity, Part B         Molicare Part B           D) Molicare Part D         Main a through sensity, Part B         Molicare Part B           D) Alvising the parte	C) Patients in hospice cannot receive chemotherapy, blood transfusions, or	
E Any terminal patient with a life expectancy of nombs is eligible 10-73, 4798-579-679-479-679-479-479-479-479-479-479 10-737, 4798-570-6217 4579-479-479-479-479-479 10-737, 4798-570-6217 4579-479-479-479-479-479 10-737, 4798-570-6217 4579-479-479-479-479-479 10-737, 4798-570-6217 4579, 479-479-479-479 10-737, 4798-570-6217 4579, 479-479-479 10-737, 4798-570-6217 4579, 479-479 10-737, 4798-570-6217 4579, 479-479 10-737, 479-570-6217 4579, 479-479 10-737, 479, 479-470-6217 10-737, 479-570-6217 10-737, 479, 479-470-6217 10-737, 479, 479, 479, 479, 479, 479, 479, 47		
<ul> <li>10-173 - Pites-Com-212* 6.67 year-old female has started receiving home hospice care. Field a character fragment in the employed in the started in physician can bill through which one of the following?</li> <li>A) Medicare Part A</li> <li>B) Medicare Part B</li> <li>C) Medicare Part D</li> <li>Pite attending physician cannot bill Maficare</li> <l< td=""><td></td><td></td></l<></ul>		
Inspice care. Her attending physician can bill through which one of the following?         In temployed by hospice. Medicare Part A           A) Medicare Part A         Medicare Part A           B) Medicare Part B         Medicare Part A           B) Medicare Part B         Medicare Part A           B) Medicare Part C         Medicare Part A           B) Medicare Part C         Medicare Part C           D) The attending physician cannot bill Medicare         Medicare Part A           B) The attending physician cannot bill Medicare         Medicare Part A           A) Medicare Part C         Medicare Part A           A) Medicare Part A         Medicare Part A           B) The attending physician cannot bill Medicare         Medicare Part A           A) Adding a forvoration medication regiment         Medicare Part A           A) Adding a forvoration medication regiment         Medicare Part A           B) More frequent dosing of Aluly medication         Medicare Part A           D) Avising the parenotis ton the build medications         Medicare Part A           D) Avising the parenotis on the build medications         Medicare Part A           D) Avising the parenotis to not field motions discuss the medication regiment         Medication Part A           D) Avising the parenotis to not build medications         Medication Part A           D) Avising the parenotis ton th		
following?       hospial insurance; covers inpaint care in hospials and skilled nursing facilities         A) Medicare Part A       B) Medicare Part C         D) Medicare Part C       Covers of the services. Medicare Part D         D) Medicare Part D       Covers of the services. Medicare Part C         D) Medicare Part D       Covers of the services. Medicare Part D         D) Medicare Part D       Dispise in cannot bill Medicare         D) Medicare Part D       Dispise in cannot bill Medicare         D) Medicare Part D       Dispise in cannot bill Medicare         D) Medicare Part D       Dispise in cannot bill Medicare         D) Medicare Part D       Dispise in covers is paint or the services. Medicare Part D         D) Medicare Part D       Dispise in covers is paint or the services. Medicare Part D         D) Medicare Part D       Dispise in covers is paint or the services. Medicare Part D         D) Medicare Part D       Dispise in covers is paint or the services. Medicare Part D         D) Medicare Part D       Dispise in covers is paint or the services. Medicare Part D         D) Medicare Part D       Dispise in covers is paint or the services. Medicare Part D         D) Medicare Part D       Medicare Part D         D) Medicare Part D       Dispise part D         D) Medicare Part D       Dispise part D         D) Medicare Part D       Dispise pa		
A) Medicare Part A       hospice, and home health services. Multicas extress. Including office visits and home health services. Multicas extress. Multicage Plans J)         D) Medicare Part B       hospice, and home health services. Multicas extress. Multiding office visits and home health services. Multicas extress. Multiding office visits and home health services. Multicas extress. Multiding office visits and home health services. Multicas extress. Multicas extress.         B) Medicare Part D       Dimensional Multicase Part D. Which provides prescription drug overlage. Medicate Part D. A which provides head hull VSOB D.         B) Addres favore to view of the hollowing is most likely to improve adherence to a china and bis parents.       Addres favore to view of the hollowing is most likely to improve adherence to a china making the tase of hater overlage. Multicase Part D. Noviking the tase of hater overlage and the provemance of following is most associated with formation adherence rould pattern the arc pixen on proving children proves the holes are control of the dosing schedule         D) Advising the pracents is and only ingroves adherence. The proving children indexisions and proves adherence. The prove adherence indule pattern in decisions concerning their case gives them a sease of outfol and improves adherence. The prove adherence indule pattern in decisions are prove adherence. The prove adherence indule pattern in decisions is include to the proves adherence. The prove adherence indule pattern in decisions the prove adherence. The prove adherence. The prove adherence indule pattern in decisions	1 01 5	
B) Medicare Part B       Part B (medical insurance) covers outgritter physician services, including office (Overlage Varies, Medicare Part C)         C) Medicare Part D       Services, Medicare Part C)         D) Medicare Part D       Services, Medicare Part C)         OW-04.1 + Prex-Cen. In a child, which one of the following is most likely to improve adherence to a chronic medication darge coverage. Medicare Part D plans xary with regard to cost and drugs coverage. Medicare Part D plans xary with regard to cost and drugs coverage. Medicare Part D plans xary with regard to cost and drugs coverage. Medicare Part D plans xary with regard to cost and drugs coverage. Medicare Part D plans xary with regard to cost and drugs coverage. Medicare Part D plans xary with regard to cost and drugs coverage. Medicare Part D (Medicare Part D)         D) Advising the parents in complete control of the dolowing is most associated with compliance relates of greater than 79 (SOR B). Constant advice grean than prevents for children with a medication with proversity is specieally useful with constant drug coverage. Medicare Part D (Part Medicare Part D)         D) Advising the parents in complete control of the dolowing is most associated with falls in dera dults. Xare Medicare Part D (Wedicare Advartare Medicare Part D)         D) Advising the parents in complete control of the dolowing is most associated with falls in dera dults. Xare Medicare Part D (Medicare Part D)         A) Diphenhydramine (Benady!)		
C) Medicare Part D         D) Medicare Part D         D) Medicare Part D         E) The attending physician cannot bill Medicare         wisits and home health services. Medicare services. Medicare services. Medicare programs. Most		
D) Medicare Part D       offered by private companies, and combines Part A and Part B coverage. These plants also include Medicare Part D, which provides presention of my coverage. Medicare Mart S and		
<ul> <li>F) The attending physician cannot bill Medicare</li> <li>plans alway's cover emergency and ugent care, and may offer extra coverage such as solved. Near the subset of the following is most likely to improve alherence to a chronic medication regime?</li> <li>A) dating a favoric flavor to bitter liquid medications</li> <li>B) More frequent dosing of daily medications</li> <li>D) Alorising only one person from the health-care team discuss the medication.</li> <li>D) Atsing the parents to avoid giving rewards for following the regimen</li> <li>P) enting the parents to avoid giving rewards for following the regimen.</li> <li>P) Atsing the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment.</li> <li>P) enting the parents to avoid giving rewards for following the regiment and the parents.</li> <li>P) enting the parents to avoid giving rewards for following the regiment and the subset.</li> <li>P) enting the parents to avoid giving rewards for following the regiment and the parent and the</li></ul>		
<ul> <li>as vision.hearing, dental, and/or health and vellness programs. Most plans also include Medicare Par D, which provides preservition offing covered.</li> <li>08-034. +Pb-+Cca. In a child, which one of the following is most likely to improve adherence to a chronic medical regimen and be employed in children. AN Adding a favors to unpleasant tasting medications that are given on by once or twice and biases the medication affective. OB-034. The health-care term ensity office and by increasing the taste of biter medications. Using medications of the adults are taste of biter medications. Using medications that are given on by once or twice and y is associated with compliance rates or greater than 70% (SOR B). Consistent advice gives them a sense of control and improves adherence. Only are adviced by in parents to avoid giving prevards for following is most associated with falls in discuss the medications. Using methods for holden in decisions concerning their care gives them a sense of control and improves adherence. Only strained frame indications that are given than a sense of control and improves adherence. Only strained frame indications are frequently associated with falls in discuss the medications. Strained strained frame, anticiphoren and constrained strained strained frame, and the green and using visial render tasks in the dots and the strained strained strained frame and using visial render tasks in the dots and the strained straine</li></ul>		
Include Medicar Part D, which provides prescription drug coverage. Medicare Part D plans ray with regard to cost and drugs coverage.           08-034. +Phe-Ce In a child, which one of the following is most likely to improve adhere to a chronic medical engeme can be different object of bitter engines with he patient and is parents.         Medication adherence. 08-034. In children. A number of useful strategies for monic adherence to a chronic medical engine can be medication C) Having only one person from the health-care team discuss the medication D) Advising the parents to avoid giving rewards for following the regimen D) Advising the parents to avoid giving rewards for following the regimen D) Advising the parents to avoid giving rewards for following the regimen D) Advising the parents to avoid giving rewards for following the regimen D) Advising the parents to avoid giving rewards for following a sheet control of the dosing schedule         Medication adherence. Involving children who take their medicine properly helps improve adherence. Involving children who take their medicine properly helps improving adherence include patient handous, keeping financial costs in mind when prescribing. Advising patients to incorporate dosing into daily routines such as mealt, keeping tally sheets, and using visual reminders such as moder adults?           0.04022. +Most-Cel. Which one of the following is most associated with fulls in offer adults?         Medication SE. Diphenydramine. 09:022. Chain Casses of medications schedules their medicine regime. Schedule advision schedules in dividants. The other drugs listed are not in the higher-risk groups of the schedules who takes as an advisor of the ratio poly schedules. The polythamine (Benadry): D) Merannin (Discophage)           D) Hoelung Advisor of the problem is intravenous administration of the polythamine (Benadry): D) succentrykholine (	2) The attenting physician cannot one broadcare	
Part D plans vary with regard to cost and drugs covered.		
<ul> <li>98-034. +Pbe+Cca. In a child, which one of the following is most likely to improve adherence to a chronic medication regimen with the modication B) Moor frequence to a chronic medication regimen can be parents to avoid giving rewards for following the regimene.</li> <li>90 Morising the parents in complete control of the dosing schedule</li> <li>91 Putting the parents in complete control of the dosing schedule</li> <li>92 Putting the parents to avoid giving rewards for following is most associated with following a medication regimen. Parental use of rewards for children who take their medication regimen. Parental use of rewards for children who take their medication regimen. Parental use of rewards for children who take their medication regimen. Parental use of rewards for children who take their medication regimen. Parental use of rewards for children who take their medication regimen. Parental use of rewards for children who take their medication regimen. Parental use of rewards for children who take their medication regimen. Parental use of rewards for children who take their medication regimen. Parental parients to incorporate dosing into daily routines such as meals, keeping financial conseronin their care givens them a sense of conseronia dimers. The Nee classes include benzofizaceptines, anticipextensi, antipsychotics, antiepileptics, anticolinergics medications. Diphenhydramine. 09-022. +Non+tCcl. Which one of the following is most associated with fulls in derawards. Seeping advisting data the start conseroning their creating physica who and back. He was seen 2 days ago in a local emergency department with symptomis of gastroenterits, treated with intravenous fluids, and sent hom as an actue dystomic reaction can be preving in force (Comparine) suppositories.</li> <li>91 Diphenhydramine (Benadyt)</li> <li>91 Diphenhydramine (Remadyt)</li> <li>91</li></ul>		
<ul> <li>improve adherence to a chronic medicator regimen?</li> <li>A) Adding a Abrovic flavor to bitter flipid medications</li> <li>B) Are requent dosing of daily medication</li> <li>C) Having only one person from the health-care team discuss the medication</li> <li>C) Advising the parents to avoid giving revards for following the regimen</li> <li>D) Advising the parents to avoid giving revards for following the regimen</li> <li>D) Advising the parents to avoid giving revards for following the regimen</li> <li>D) Advising the parents to avoid giving revards for following the regimen</li> <li>D) Advising the parents to avoid giving revards for following the regimen</li> <li>D) Advising the parents to avoid giving revards for following the regimen</li> <li>D) Advising the parents to avoid giving revards for following the regimen</li> <li>D) Advising the parents to avoid giving revards for following is most associated with fulls in older adults?</li> <li>D) Diphenlydramine (Benady!)</li> <li>D) Advisent the Chros-241</li> <li>D) Advisent the Chrose-241</li> <li< td=""><td><b>08-034.</b> +Pbc+Cca. In a child, which one of the following is most likely to</td><td></td></li<></ul>	<b>08-034.</b> +Pbc+Cca. In a child, which one of the following is most likely to	
<ul> <li>B) More Frequent dosing of daily medication         (C) Having only one person from the health-care team discuss the medication         (C) Having only one person for which health-care team discuss the medication         (C) Having only one person for which health-care team discuss the medication         (C) Having only one person for which parents to avoid giving rewards for following the regimen         (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Putting the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the parents to avoid giving rewards for following the regimen          (E) Advising the team diving the regiment          (E) Advising the second the following is most associated with falls          (E) Advising the second the following is most associated with fall</li></ul>		
C) Having only one perion from the health-care team discuss the medication regimen with the patient at bayers. S(OR B). Consistent advice given by multiple members of the health-care team reinforces the importance of following an exact team view of the health-care team reinforces the importance of following in exact team view of the health-care team reinforces the importance of following an exact team view of the health-care team reinforces the importance of following an exact team view of the health-care team reinforces the importance of following an exact team view is presented for the doising schedule diverties such as medication regimen. Parental use of rewards for children in decisions concerning the when presentibug advising patients to incorporate doising into daily contines such as meals, keeping tally sheets, and using visual reminders such as meals, keeping tally sheets, and using visual reminders such as meals, keeping tally sheets, and using visual reminders such as meals, keeping tally sheets, and using visual reminders such as meals (keeping tally sheets, and using visual reminders such as meals, keeping tally sheets, and using visual reminders such as meals, keeping tally sheets, and using visual reminders such as meals (keeping tally sheets, and using visual reminders such as molecular). Diphenlydramine (Benadryl) and the medications experime visual systemetritis, treated with intravenous fluids, and typical neurophychics, mustle experime visual systemetritis, treated with intravenous fluids, and typical neurophychic against experiment of choice is diphenlydramine. (Benadryl) C) haucenylcholine (Anner Medication SE). Diphenlydramine, Chorgenta (Computine) suppositories. The best terapy for this problem is intravenous administration of A) atropine (Serierot). The actue treatment of choice is diphenlydramine or heartpropine. (Computine) supposite the start term of the source of the additional backs dopamine, including problem that fields and theart equating theart evaluation as son as possible to	A) Adding a favorite flavor to bitter liquid medications	ANS=A. Adding flavors to unpleasant tasting medicines is helpful (SOR B).
regimen with the parient and his parents D) Advising the parents to rook giving parents for following the regimen E) Putting the parents in complete control of the dosing schedule D) Advising the parents in complete control of the dosing schedule E) Putting the parents in complete control of the dosing schedule D) Advising the parents in complete control of the dosing schedule E) Putting the parents in complete control of the dosing schedule D) Advising the parents of increases in the postence of the following as medications prove adherence. Unless strategies for improving adherence include patient handouts, keeping financial costs in mind when prescribing, advising patients to incorporate dosing into daily routines such as meals. Keeping tally sheets, and using visual reminders such as notes on the refrigerator. <b>09-022</b> , +Non+Cel. Which one of the following is most associated with falls in older adults? A) Diphenhydramine (Benadryl) B) Atovastatic (Lipitor) C) Medformin (Glucophage) D) Memantice (Manenda) E) Theophylline (Theo-24) <b>10-102</b> , <b>4</b> -Mater Loz-L2* <b>A n</b> anxitous and agitated 18-year-old white male presents to your office with a 2-hour history of severe muscle spasms in the neck and back. Hew asseen 2 days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous shubis, and sent home with a prescription for prochloperazine (Comparine) Suppositories. The best therapy for this problem, studies, and sent home with a prescription for prochloperazine (Comparine) Suppositories. The best therapy for this problem is intravenous shubis, and sent home with a prescription for prochloperazine (Comparine) suppositories. D) diphenhydramine (Benadryl) C) baloeprofie D) succipie/bohine (Ancettine) E) carbanazepine (Tegreto) <b>B6167</b> , +InterSp, A <b>3 3</b> , zear-old farmer comes to your office because of an upper frespiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately J) year ago. It is a 1 emerasy methaticon the first not	B) More frequent dosing of daily medication	Chocolate flavoring is especially useful for masking the taste of bitter
<ul> <li>D) Advising the parents to avoid giving rewards for following the regimen E) Putting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control of the dosing schedule</li> <li>Pitting the parents in complete control and improves adherence. On the dosing into doal is not advising patients in the refigeration.</li> <li>Pitting the parents in complete control and improves adherence. The dosing advising patient interdition parent in the indeparent interview in the dosing into doal is not advising advising patients introduce with a patient complete control is dosing into doal is not advising advising patients into incore patient dosing into doal is not advising advising patient in</li></ul>		
<ul> <li>E) Putting the parents in complete control of the dosing schedule</li> <li>Following a medication regimen. Parental use of rewards for children who take their medicine properly helps improve adherence. Under strategies for improving adherence include patient in adouts, scence. Other strategies for improving adherence include patient in adouts. Scence . Other strategies for improving adherence include patient in madouts. Scence . Other strategies for improving adherence include patient in madouts. Scence . Other strategies for improving adherence include patient in madouts. Scence . Other strategies for improving adherence include patient in madouts. Scence . Other strategies for improving adherence include patient in madouts. Scence . Other strategies for improving adherence include patient in madouts. Scence . Other strategies for improving adherence . Other strategies . Scence . Other strategies . Scence . Other strategies . Scence</li></ul>		
betr medicine properly helps improve adherence. Include patient handouts, keeping financial costs in mind when prescribing, advising patients to incorporate dosing into daily routines such as meals, keeping tally sheets, and using visual reminders such as moles on the refrigreator.         09-022. +Non+Cel. Which one of the following is most associated with falls in older adults?       Medication SE. Diphenhydramine.09-022. Certain classes of medications are frequently associated with falls in older adults. ANS: A. These classes include benzodiazepines, antidepressants, antipeychotics, antielpferessants, antipeychotics, anteterpferestressants, antipeychotics, anteilpferestants		
<ul> <li>concerning their care gives them a sense of control and improves adhrence. Othe strategies for improving adhrence include prateint handouts, keeping famical costs in mind when prescribing, advising patients to incorporate dosing into daily routines such as meals. Keeping fally sheets, and using visual reminders such as notes on the refrigerator.</li> <li><b>09-022.</b> +Non+Ccl. Which one of the following is most associated with falls in older adults?</li> <li>A) Diphenhydramine (Benadryl)</li> <li>B) Atorvastatin (Lipitor)</li> <li>C) Metformin (Glucophage)</li> <li>D) Memantine (Manenda)</li> <li>E) Theophylline (Theo-24)</li> <li><b>10-12.</b> +Mus+Eucs-L<sup>27</sup> An anxious and agitated 18-year-old white male presents to your office with a 2-hour history of severe muscle spasms in the neck and back. He was seen 2 days ago in a local emergency department with symptoms of garconteritis, treated with frials in older adults. The other drugs listed are not in the higher-risk groups of medications. Diphenhydramine (10-192. <u>Dystonia; dopamine holcking</u> agent Adulta (Daytonic reaction can be frightening and parinfil to the patient is taking. <u>Dystonia can be caused by any agent that blocks dopamine, including prochlorperazine, metoclopremide.</u></li> <li>B) diphenhydramine (Benadryl)</li> <li>C) haloperidol</li> <li>D) succinytcholine (Ancetine)</li> <li>E) carbamazeping (Tegreto)</li> <li><b>Welacation. White he patient terturn if the biopsy indicates the patient staking. Dystonia can be procedure of choice is diphenhydramine or benztrophice.</b></li> <li>Melanoma. <b>10-121.</b> +Int+Csp. A Jay ear-old farmer cormes to your office because of an upper treagent start. As the abloperidol. The action the patient stave history of substonia disfigurement would correct of choice when melanoma, as this is likely to transect in the strong bays and recheck in 2 months for signs of recurrence concerning it is stanking to difficult to assess the progonois: an uncaulaly retrieve cancerosu</li></ul>	E) Putting the parents in complete control of the dosing schedule	
strategies for improving adherence include patient handouis, keeping financial costs in mind when prescribing. advising patients to incorporate dosing into daily routines such as smeaks, keeping tally sheets, and using visual reminders such as notes on the refrigerator.09-022. +Non+Cel. Which one of the following is most associated with falls in older adults?Medication SE. Diphenhydramine. 09-022. Certain classes of medications are frequently associated with falls in older adults. ANS: A. These classes include bezodiazepines, antidepressats, antipy-choics, antieliptersise, anticholinergises, anticholinergise, anticholinergise, anticholinergise, anticholinergises, anticholine, associated with falls in older adults. The variation si o sole of where metaling and painful to the patient si toreation and base.10-12. + Mus+Euc, LF2 & An antoines and agritated 18-year-old whit metaline proceeding componenties, treated with intravenous fluids, and sent home with symptomis of gastroenteritis, treated with intravenous		
costs in mind when prescribing, advising patients to incorporate dosing into daily rotines such as meals, keeping tally sheets, and using visual reminders such as notes on the refrigerator.09-022. +Non+Cel, Which one of the following is most associated with falls in older adults?Medication SE. Diphenhydramine. 09-022. Certain classes of medications are frequently associated with falls in older adults. ANS: A. These classes include benzodiazepines, anticplepties, anticholinergies, sedative hypnotics, musce relaxants, and redications. Diphenhydramine is one of the anticholinergie medications. Diphenhydramine is one of the anticholinergie medications. Diphenhydramine is one of the anticholinergie medications. Diphenhydramine is one of the anticholinergie medications associated with falls in older adults. The other drugs listed are not in the higher-risk groups of medication SE. Diphenhydramine. 10-192. Dystonia; dopamine blocking medications associated with falls in older adults. The other drugs listed are not in the higher-risk groups of medications. Diphenhydramine (Benadryl) C) halopeniol10-12. +Hint-Cyp. A 3g venericiti, treated with intravenous fulki, and ventore prostition of A) atropine B) diphenhydramine (Benadryl) C) halopeniol D) succinylcholine (Ancettine) E carbamazepine (Tegreto)08-167. +Int+Cyp. A 32 year-old farmer comes to your office because of an upper tincks and has been enlarging for the past 2 months. He says he is so busy that he is not a approach would be to a stres when he can return to have it taken care of. In such cases the best aproach would be to A) perform a nuech biopsy and have the patient return if the biopsy indicates to halopsy should he used only with discretion when the son at sue when he can return to have it taken care of. In such cases the bestor ison on his for signs of recurrence C		
op-022. +Non+Cel. Which one of the following is most associated with falls in older adults?     Medication SE. Diptenhydramine. 09-022. Certain classes of medications are frequently associated with falls in older adults?       op-022. +Non+Cel. Which one of the following is most associated with falls in older adults?     Medication SE. Diptenhydramine. 09-022. Certain classes of medications are frequently associated with falls in older adults. ANS: A. These classes include be zondiazepines, antidepressnts, antisyschotics, anterjueptics, anticholinergics, sedative hypnotics; muscle relaxants, and cardiovascular medications. Diptenhydramine is one of the anticholinergic medications associated with falls in older adults. The other drugs listed are not in the higher-risk groups of medications.       D192. +Nus-Euc-SL.?* An anxious and agitated 18-year-old white male prescription for prochlorperazine (Compazine) suppositories.     Medication SE. Diphenhydramine. 10-192. Dystonia; dopamine blocking agent, ANS=BA. While rarely life threatening, an acute dystonic reaction can be raused by any agent that blocks dopamine, including prochlorperazine, metoclopramide, and typical neuroleptic agents such as haloperiold. The acute treatment of choice is diphenhydramine or benztropine.       08-167. +Init-CSp. A 32-year-old farmer comes to your office because of an upper respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetrie nodule with an irregular border and variations in color from black to blue. The patient asyst he is busy studie is not sure when he can return to have it taken care of .In such cases the best approach would be to 0. Selector cartury to desire to refer such pathology.       0. Joerform a punch blopsy and have the patient return if the biosy indicates phology.     Melanoma. 10-		
notes on the refigurator.         notes on the refigurator.           09-022. +Non+Cel. Which one of the following is most associated with falls in older adults. ANS: A. These classes include benzodiazepines, antidepresants, antipsychotics, anticpilepitcs, anticholinergics, editive hypotics, muscle relaxants.           A) Diphenhydramine (Benadryl)         B) Atorvastatin (Lipitor)           B) Atorvastatin (Lipitor)         C) Mefformin (Glucophage)           D) Memantine (Namenda)         Diphenhydramine is one of the anticholinergic medications.           D'I Theophylline (Theo-24)         Diphenhydramine is one of the anticholinergic medications.           10-192. +Mus+Euc>L7* An anxious and agitated 18-year-old white male prescription for prochloprearaine (Compazine) suppositories.           The best therapy for this problem is intravenous administration of A) atorpine         Medication SE. Diphenhydramine. 10-192. Dystonia; dopamine blocking greent. ANS=B. While rarely life threatening, an acute dystonic reaction can be caused by any agent that blocks dopamine, including prochlorperazine, (metoclopramide, and typical neuroleptic agents such as haloperidol. The acute frastmazepine (Tegretol)           D) succinytcholine (Anectine)         E) carbamazepine (Tegretol)           D'stormatory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetic nodule with an it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should be used for a auspeceted melanoma, as this is likely to transect the lesion is too la		
09-022. +Non+Cel. Which one of the following is most associated with falls in older adults?       Medication SE. Diphenhydramine: 09-022. Certain classes of medications are frequently associated with falls in older adults. ANS: A. These classes include by Diphenhydramine (Benadryl)         B) Diphenhydramine (Benadryl)       B) Arovastatin (Lipitor)         C) Metformin (Glucophage)       Diphenhydramine (Theo-24)         I0-192. +Mus+Euc>L?* An anxious and agitated 18-year-old white male preseription for prochtoprearine (Comparing the verver muscle spasms in the neck and back. He was seen 2 days ago in a local emergency department with and back meas seen? days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous fluids, and sent home with a symptoms of gastroenteritis, treated with intravenous administration of A) atropine       Medication SE. Diphenhydramine. 10-192. Dystonia; dopamine holocking agent. ANS=B. While rarely life threatening, an acute dystonic reaction can be fracted with falls in older adults. The other drugs listed are not in the higher-risk groups of medications.         B) diphenhydramine (Benadryl)       D) alpopridol         C) haloperidol       D) succinylcholine (Ancetine)         E) carbamazepine (Tegretol)       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy tacks longer, it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is sesential for further evaluation and therapy. A shave biopsy should be to aspected melanoma is usubgroups and have the patient return if the biopsy indicates the l		
older adults?       frequently associated with falls in older adults. ANS: A. These classes include         A) Diphenhydramine (Benadryl)       bezzodiazepines, antidepressants, and cardiovascular medications.         B) Adrovastatin (Lipitor)       bezzodiazepines, antidepressants, and cardiovascular medications.         D) Memantine (Namenda)       Diphenhydramine is one of the anticholinergic medications associated with falls in older adults. The best dara not in the higher-risk groups of medications.         10-192. +Mus+Euc>L?* An anxious and agitated 18-year-old white male presents to your office with a 2-hour history of severe muscle spasms in the neck and back. He was seen 2 days ago in a local emergency department with symptoms of gastroenteritix, treated with intravenous administration of A) atropine.       bezt the adults. ANS: A. These classes include bezence and back. He was seen 2 days ago in a local emergency department with symptoms of gastroenteritix, treated with intravenous administration of A) atropine.         B) diphenhydramine (Benadryl)       C) haloperidol         D) bezintylefoline (Anectine)       Bezint (Faguerl)         B) diphenhydramine (Benadryl)       Bezint (Tertor)         D) aloperidol       Bezint (Faguerl)         D) aloperidol       Bezint (Faguerl)         D) aloperidol       Bezint (Faguerl)         D) perform a have biopsy and have the patient return if the biopsy indicates pathology       Bezint return if the biopsy indicates patholaging for the past 2 months. He says he is so busy that he is not sure when he can return to have it taken care of. In suc	<b>09-022</b> $\pm$ Non $\pm$ Cel Which one of the following is most associated with falls in	
A) Diphenhydramine (Benadryl)       benzodiaszpines, antidepressants, antigsychotics, antieplichtics, anticholinergics, sedative hypotics, muscle relaxants, and cardiovascular medications.         D) Memantine (Namenda)       Dimenhydramine (Semadryl)         D) Memantine (Namenda)       Dimenhydramine is one of the anticholinergic medications.         D) Hopsyndik (Muscle With a 2-hour history of severe muscle spasms in the neck and back. He was seen 2 days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous fluids, and sent home with a prescription for prochlorprazine (Compazine) suppositories.       Medication SE. Diphenhydramine, 10-192. Dystonia; dopamine blocking agent, ANSB-B. While rarely life threatening, an acute dystonic reaction can be acused by any agent that blocks dopamine, including prochlorprazine, metoclopramide, and typical neuroleptic agents such as haloperidol. The acute treatment of choice is diphenhydramine or benztropine.         D) diphenhydramine (Genadryl)       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy takes longer, it is the procular dy and itseretion when the son enterum to have it taken care of. In such cases the best approach would be to 0. A) erform a shave biopsy and neve the patient return if the biopsy indicates pathology.       Melanoma. 10-121. ANS=B. The diagnosis of melanoma a shous is likely to transect the lesion and destroy evidence concernuit is to king it difficult to 2. Selectrocautery to destroy the lesion and the surroouding tissue of the set with liquid nitogen         0. perform a shave biopsy and neve the patient return if the biopsy indica		
B) Atorvastatin (Lipitor)       scatture typonotics, muscle relaxants, and cardiovascular medications.         C) Metformin (Glucophage)       bipenhydramine i one of the anticholinergic medications.         D) Menantine (Namenda)       bipenhydramine i one of the anticholinergic medications.         Divel - Muscleux-1: P* An anxious and agitated 18-year-old white male presents to your office with a 2-hour history of severe muscle spasms in the neck and back. He was sen 2 days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous luids, and sent home with prescription for prochlorperazine (Compazine) suppositories.       Medication SE. Diphenhydramine. 10-192. Dystonia; dopamine blocking agent. ANS=B. While rarely life threatening, an acute dystonic reaction can be caused by any agent that blocks dopamine, including prochlorperazine, metoclopranide, and typical neuroleptic agents such as haloperidol.         D) atopridol       D) succinylcholine (Ancetine)       Distoreart that in a construct of choice is diphenhydramine or benztropine.         B) 61, +1n+Csp. A 32-year-old farmer comes to your office because of an upper respiratory infection. While he is there he points out a lesion on his forearm that in first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says hui ti so busy schedule, he has a potentially life-threatening problem that needs proper diagnosis. A purch pan excisional biopsy sched be used of a suspected melanoma, as this is likely to transect the lesion and the surrounding tissue patient ercuture to have the patient return if the biopsy indicates pathology.         D) perform a nelarging for the past 2 months. For sagns of		
C) Metformin (Glucophage)       Diphenphylramine is one of the anticholinergic medications associated with falls in older adults. The other drugs listed are not in the higher-risk groups of medications.         10-192. +Mus+Euc21?* An anxious and agitated 18-year-old white male presents to your office with a 2-hour history of severe muscle spasms in the neck and back. He was seen 2 days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous fluids, and sent home with a prescription for prochlopreazine(Comparine) suppositiones.       Medication SE. Diphenhydramine, 10-192. Dystonia; dopamine blocking agent. ANS=B. While rarely life threatening, an acute dystonic reaction can be frightening and painful to the patient and confusing to the treating physician who may be unaware of what medications the patient is taking. Dystonia can be caused by any agent that blocks dopamine, including prochorperazine, metoclopramide, and typical neuroleptic agents such as haloperidol.         D) slucenylcholie (Ancetine)       E) carbamazepine (Tegretol)         OB-107. +Int+Csp. A 32-year-old farmer comes to your office because of an upper lengtratory infection. While he is ither he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says tha it individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy takes longer, it is the procedure of choice when melanoma is suspected. After removal and diagnosis, Porput referral is essential for further evaluation and therapy. A shave biopsy should be to         A) perform a nulch biopsy and have the patient return if the biosys indicates pathology.       Men		
D) Memantine (Namenda)       in older adults. The other drugs listed are not in the higher-risk groups of medications.         D) 10-192. +Must-Euc>L?* An anxious and agitated 18-year-old white male presents to your office with a 2-hour history of severe muscle spasms in the neck and back. He was seen 2 days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous fluids, and sent home with a prescription for prochlorperazine (Compazine) suppositories.       Medication SE. Diphenhydramine. 10-192. Dystonia; dopamine blocking agent, ANS=B. While rarely life threatening, an acute dystonic reaction can be raised by any agent that blocks dopamine, including prochlorperazine, metoclopramide, and typical neuroleptic agents such as haloperidol. The acute treatment of choice is diphenhydramine or benztropine.         B) diphenhydramine (Benadryl)       D) succinylcholine (Anectine)       Distornylcholine (Anectine)         B) atopridol       D) succinylcholine (Anectine)       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that he first noted approximately 1 year ago. It is a 1-em asymmetric nodule with a protend would be to         A) perform a punch biopsy and have the patient return if the biopsy indicates pathology       Melanoma. 08-167. Suspected, excision, or i substantial disfigurement would be cole or for suspected melanoma, as this is likely to transect the lesion is no larger for complete excision, or i substantial disfigurement would be cole or suspected melanoma, as soon as possible         B) perform a punch biopsy and have the patient stort with series with a light of the succing and suspective cancorous tissuberfom an unsampled		
10-192. +Mus+Euc>L?* An anxious and agitated 18-year-old white male presents to your office with a 2-hour history of severe muscle spasms in the need and back. He was seen 2 days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous fluids, and sent home with a prescription for prochlorperazine (Compazine) suppositories.       Medication SE. Diphenhydramine. 10-192. Dystonia: dopamine blocking agent. ANS=B. While rarely life threatening, an acute dystonic reaction can be agent. ANS=B. While rarely life threatening, an acute dystonic reaction can be reacted by any agent that blocks dopamine, including prochlorperazine. (Compazine) suppositories.         The best therapy for this problem is intravenous administration of (2) haloperidol       Dystonia can be caused by any agent that blocks dopamine, including prochlorperazine. (Including prochlorperazine, including prochlorperazine, i		
presents to your office with a 2-hour history of severe muscle spasms in the neck and back. He was seen 2 days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous fluids, and sent home with a prescription for prochlorperazine (Compazine) suppositories. The best therapy for this problem is intravenous administration of A) attorpine       agent. ANS=B. While rarely life threatening, an acute dystonic reaction can be caused by any agent that blocks dopamine, including prochlorperazine, metoclopramide, and typical neuroleptic agents such as haloperidol. D) succinylcholine (Anectine)         B) diphenhydramine (Benadryl)       (Chaloperidol D) succinylcholine (Anectine)       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy takes longer, it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should neve to have it taken care of. In such cases the best approach would be to A) perform a punch biopsy and have the patient return if the biopsy indiceates pathology       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy takes longer, it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should here to excision, as show is likely to transect the lesion and destroy evidence concerning its depth, thus making it difficult to assess the prognosis. A punch biopsy should be used for a suspected melanoma.         D) perform a nal		medications.
and back. He was seen 2 days ago in a local emergency department with symptoms of gastroenteritis, treated with intravenous fluids, and sent home with a prescription for prochlorperazine (Compazine) suppositories. The best therapy for this problem is intravenous administration of A) atropinefrightening and painful to the patient is taking. Dystonia can be may be unaware of what medications the patient is taking. Dystonia can be may be unaware of what medications the patient is taking. Dystonia can be may be unaware of what medications the patient is taking. Dystonia can be may be unaware of what medications the patient is taking. Dystonia can be may be unaware of what medications the patient is taking. Dystonia can be may be unaware of what medications the patient is taking. Dystonia can be caused by any agent that blocks dopamine, including prochlorperazine, metoclopramide, and typical neuroleptic agents such as haloperidol. The acute treatment of choice is diphenhydramine or benztropine.08-167. +Int+Csp. A 32-year-old farmer comes to your office because of an uper respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cen asymmetric nodule with a it is the procedure of choice when melanoma is suspected. After removal and tiagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should he to A) perform a punch biopsy and have the patient return if the biopsy indicates pathologyB) perform a punch biopsy and have the patient return if the biopsy indicates pathologyPerform a punch biopsy and have the patient return if the biopsy indicates pathologyB) perform a nelliptical excision as soon as possible E) freeze the site with liquid nitrogenPerform a elliptical excision as soon as possible E) freeze the site with l	10-192. +Mus+Euc.>L?* An anxious and agitated 18-year-old white male	Medication SE. Diphenhydramine. 10-192. Dystonia; dopamine blocking
symptoms of gastroenteritis, treated with intravenous fluids, and sent home with a prescription for prochlorperazine (Compazine) suppositories. The best therapy for this problem is intravenous administration of A) atropine B) diphenhydramine (Benadryl) C) haloperidol D) succinylcholine (Anectine) E) carbamazepine (Tegretol) <b>08-167.</b> +Int+Csp. A 32-year-old farmer comes to your office because of an upper respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says that is not sure when he can return to have it taken care of. In such cases the best approach would be to A) perform a punch biopsy and have the patient return if the biopsy indicates pathology B) perform a shave biopsy and recheck in 2 months for signs of recurrence C) use electrocautery to destroy the lesion and the surrounding tissue D) perform an elliptical excision as soon as possible E) freeze the site with liquid nitrogen <b>10-121.</b> +Int+Csp-L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in <b>10-121.</b> Alnt+Csp-L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in		
prescription for prochlorperazine (Compazine) suppositories.       caused by any agent that blocks dopamine, including prochlorperazine, metoclopramide, and typical neuroleptic agents such as haloperidol. The acute treatment of choice is diphenhydramine or benztropine.         B) diphenhydramine (Benadryl)       C) haloperidol         D) succinylcholine (Anectine)       E) carbamazepine (Tegretol)         B• 107 + Int+Csp. A 32-year-old farmer comes to your office because of an upper respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says that it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy and have the patient return if the biopsy indicates pathology         B) perform a shave biopsy and have the patient return if the biopsy indicates pathology       B) perform a shave biopsy and recheck in 2 months for signs of recurrence C) use electrocautery to destroy the lesion and the surrounding tissue pl) perform an elliptical excision as soon as possible       Melanoma. 10-121. AINS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be used for a subjected melanoma is used to read subject direct succeause of an upper is the surrouce and to a large lesion that might be malignant, it would be safest to refer succh melanoma.         B) perform a nelliptical excision as soon as possible       Page 93 of 10		
The best therapy for this problem is intravenous administration of       metoclopramide, and typical neuroleptic agents such as haloperidol. The acute treatment of choice is diphenhydramine or benztropine.         B) diphenhydramine (Benadryl)       choice is diphenhydramine or benztropine.         C) haloperidol       D) succinylcholine (Anectine)         E) carbamazepine (Tegretol)       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy takes longer, it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should be to         A) perform a punch biopsy and have the patient return if the biopsy indicates pathology       B) perform a shave biopsy and have the patient return if the biopsy indicates pathology         B) perform a nelliptical excision as soon as possible       2 metor cautery to destroy the lesion and the surrounding tissue ploperform an elliptical excision as soon as possible         D) perform an elliptical excision as soon as possible       2 melanoma. 10-121. +Int+Csp-SL A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in         Mario A. Jimenez, M.D., B.S.E.       Mario A. Jimenez, M.D., B.S.E. "Jess did for us and teaches us that it in giving that we		
A) atropine       acute treatment of choice is diphenhydramine or benztropine.         B) diphenhydramine (Benadryl)       acute treatment of choice is diphenhydramine or benztropine.         B) diphenhydramine (Benadryl)       b) succinylcholine (Anectine)         E) carbamazepine (Tegretol)       b) diphenhydramine or benztropine.         08-167. +Int+CSp. A 32-year-old farmer comes to your office because of an upper respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says that it iches and has been enlarging for the past 2 months. He says he is so busy that he is not sure when he can return to have it taken care of. In such cases the best pathology       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should be to         A) perform a punch biopsy and have the patient return if the biopsy indicates pathology       making it difficult to assess the pergonosis. A punch biopsy should be used only with discretion when the lesion and the surrounding tissue         D) perform a nelliptical excision as soon as possible       patients. Neither cryotherapy nor electrocautery should be used for a suspected melanoma.         E) freeze the site with liquid nitrogen       Melanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided because         Copyrighted		
B) diphenhydramine (Benadryl)       C) haloperidol         D) succinylcholine (Anectine)       Disuccinylcholine (Anectine)         E) carbamazepine (Tegretol)       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy takes longer, it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy and have the patient return if the biopsy indicates pathology         B) perform a punch biopsy and have the patient return if the biopsy indicates pathology       much biopsy and recheck in 2 months. He surrounding tissue         D) perform a elliptical excision as soon as possible       patients. Neither cryotherapy nor electrocautery should be used for a suspected melanoma. Its largest dimension is 0.5 cm. What should be the first step in         10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in       Mario A. Jimenez, M.D., B.S.E.F. "Jesus died for us and teaches us that it is in giving that use		
C) haloperidol       D) succinylcholine (Anectine)         E) carbamazepine (Tegretol)       Melanoma. 08-167. Suspected, excisional biopsy. ANS=D. Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy takes longer, it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should be to         A) perform a punch biopsy and have the patient return if the biopsy indicates pathology       D) perform a shave biopsy and recheck in 2 months for signs of recurrence         C) use electrocautery to destroy the lesion and the surrounding tissue       D) perform an elliptical excision as soon as possible       Signe for a large lesion that might be malignant, it would be safest to refer such patient. Neither cryotherapy nor electrocautery should be used for a suspected melanoma.         10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in       Melanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided because		acute treatment of choice is dipnennydramine or benztropine.
D) succinylcholine (Anectine) E) carbamazepine (Tegretol) 08-167. +Int+Csp. A 32-year-old farmer comes to your office because of an upper respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says that it itches and has been enlarging for the past 2 months. He says he is so busy that he is not sure when he can return to have it taken care of. In such cases the best approach would be to A) perform a punch biopsy and have the patient return if the biopsy indicates pathology B) perform a shave biopsy and recheck in 2 months for signs of recurrence C) use electrocautery to destroy the lesion and the surrounding tissue D) perform an elliptical excision as soon as possible E) freeze the site with liquid nitrogen 10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in Copyrighted Material. ITE Personal Notes. Not for Sale. Page 93 of 170 Melanoma. <b>10-121</b> . MSEB. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avaided because		
E) carbamazepine (Tegretol) <b>08-167.</b> +Int+Csp. A 32-year-old farmer comes to your office because of an upper respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says that it it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should he to A) perform a punch biopsy and have the patient return if the biopsy indicates pathologyMelanoma. <b>08-167.</b> Suspected, excisional biopsy. <b>ANS=D.</b> Despite this individual's busy schedule, he has a potentially life-threatening problem that needs proper diagnosis and treatment. Though an excisional biopsy takes longer, it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should never be done for suspected melanoma, as this is likely to transect the lesion is too large for complete excision, or if substantial disfigurement would occur. Since this may not actually retrieve cancerous tissue from an unsampled area of a large lesion that might be malignant, it would be safest to refer such patients. Neither cryotherapy nor electrocautery should be used for a suspected melanoma. <b>10-121.</b> +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step inMelanoma. <b>10-121.</b> ANS= <b>B.</b> The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided becauseCopyrighted Material. ITE Personal Notes. Not for Sale.Page 93 of 170Mario A. Jimenez, M.D., B.S.E.E. "Lesus died for us and teach	/ 1	
<b>08-167.</b> +Int+Csp. A 32-year-old farmer comes to your office because of an upper respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says that it it is not sure when he can return to have it taken care of. In such cases the best approach would be to A) perform a punch biopsy and have the patient return if the biopsy indicates pathology B) perform a shave biopsy and recheck in 2 months for signs of recurrence C) use electrocautery to destroy the lesion and the surrounding tissue D) perform an elliptical excision as soon as possible E) freeze the site with liquid nitrogenMelanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided becauseCopyrighted Material. ITE Personal Notes. Not for Sale.Page 93 of 170Melanoma. 10.5 cm. What should be the first step in		
respiratory infection. While he is there he points out a lesion on his forearm that he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says that it itches and has been enlarging for the past 2 months. He says he is so busy that he is not sure when he can return to have it taken care of. In such cases the best approach would be to A) perform a punch biopsy and have the patient return if the biopsy indicates pathology B) perform a shave biopsy and recheck in 2 months for signs of recurrence C) use electrocautery to destroy the lesion and the surrounding tissue D) perform an elliptical excision as soon as possible E) freeze the site with liquid nitrogen <b>10-121.</b> +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in Copyrighted Material. ITE Personal Notes. Not for Sale. Page 93 of 170		Melanoma, <b>08-167</b> , Suspected, excisional biopsy. <b>ANS=D</b> . Despite this
he first noted approximately 1 year ago. It is a 1-cm asymmetric nodule with an irregular border and variations in color from black to blue. The patient says that it is the procedure of choice when melanoma is suspected. After removal and diagnosis, prompt referral is essential for further evaluation and therapy. A shave biopsy should be to (A) perform a punch biopsy and have the patient return if the biopsy indicates pathology (B) perform a shave biopsy and recheck in 2 months for signs of recurrence (C) use electrocautery to destroy the lesion and the surrounding tissue (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D) perform an elliptical excision as soon as possible (D)		
irregular border and variations in color from black to blue. The patient says that it itches and has been enlarging for the past 2 months. He says he is so busy that he is not sure when he can return to have it taken care of. In such cases the best approach would be to A) perform a punch biopsy and have the patient return if the biopsy indicates pathology B) perform a shave biopsy and recheck in 2 months for signs of recurrence C) use electrocautery to destroy the lesion and the surrounding tissue D) perform an elliptical excision as soon as possible E) freeze the site with liquid nitrogen <b>10-121.</b> +Int+CSp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in Copyrighted Material. ITE Personal Notes. Not for Sale. Page 93 of 170 Mario A. Jimenz, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>		
<ul> <li>itches and has been enlarging for the past 2 months. He says he is so busy that he is not sure when he can return to have it taken care of. In such cases the best approach would be to</li> <li>A) perform a punch biopsy and have the patient return if the biopsy indicates pathology</li> <li>B) perform a shave biopsy and recheck in 2 months for signs of recurrence</li> <li>C) use electrocautery to destroy the lesion and the surrounding tissue</li> <li>D) perform an elliptical excision as soon as possible</li> <li>E) freeze the site with liquid nitrogen</li> <li>IO-121. +Int+CSp.&gt;L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in</li> <li>Copyrighted Material. ITE Personal Notes. Not for Sale.</li> <li>Page 93 of 170</li> <li>Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i></li> </ul>		
approach would be to A) perform a punch biopsy and have the patient return if the biopsy indicates pathologythe lesion and destroy evidence concerning its depth, thus making it difficult to assess the prognosis. A punch biopsy should be used only with discretion when the lesion is too large for complete excision, or if substantial disfigurement would occur. Since this may not actually retrieve cancerous tissue from an unsampled area of a large lesion that might be malignant, it would be safest to refer such patients. Neither cryotherapy nor electrocautery should be used for a suspected melanoma.D) perform an elliptical excision as soon as possiblearea of a large lesion that might be malignant, it would be safest to refer such patients. Neither cryotherapy nor electrocautery should be used for a suspected melanoma.D-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step inMelanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided becauseCopyrighted Material. ITE Personal Notes. Not for Sale.Page 93 of 170Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we		
A) perform a punch biopsy and have the patient return if the biopsy indicates pathologyassess the prognosis. A punch biopsy should be used only with discretion when the lesion is too large for complete excision, or if substantial disfigurement would occur. Since this may not actually retrieve cancerous tissue from an unsampled area of a large lesion that might be malignant, it would be safest to refer such patients. Neither cryotherapy nor electrocautery should be used for a suspected melanoma.10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step inMelanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided becauseCopyrighted Material. ITE Personal Notes. Not for Sale.Page 93 of 170Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>		
pathologythe lesion is too large for complete excision, or if substantial disfigurement would occur. Since this may not actually retrieve cancerous tissue from an unsampled area of a large lesion that might be malignant, it would be safest to refer such patients. Neither cryotherapy nor electrocautery should be used for a suspected melanoma.10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step inMelanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided becauseCopyrighted Material. ITE Personal Notes. Not for Sale.Page 93 of 170Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>		
B) perform a shave biopsy and recheck in 2 months for signs of recurrence       occur. Since this may not actually retrieve cancerous tissue from an unsampled         C) use electrocautery to destroy the lesion and the surrounding tissue       area of a large lesion that might be malignant, it would be safest to refer such         D) perform an elliptical excision as soon as possible       patients. Neither cryotherapy nor electrocautery should be used for a suspected         E) freeze the site with liquid nitrogen       melanoma.         10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could       Melanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by         simple excision with clear margins. A shave biopsy should be avoided because       simple excision with clear margins. A shave biopsy should be avoided because		
C) use electrocautery to destroy the lesion and the surrounding tissue       area of a large lesion that might be malignant, it would be safest to refer such         D) perform an elliptical excision as soon as possible       area of a large lesion that might be malignant, it would be safest to refer such         E) freeze the site with liquid nitrogen       melanoma.         10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could       Melanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by         simple excision with clear margins. A shave biopsy should be avoided because       copyrighted Material. ITE Personal Notes. Not for Sale.         Page 93 of 170       Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we		
D) perform an elliptical excision as soon as possible       patients. Neither cryotherapy nor electrocautery should be used for a suspected melanoma.         E) freeze the site with liquid nitrogen       melanoma.         10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in       Melanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided because         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 93 of 170		
E) freeze the site with liquid nitrogen       melanoma.         10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in       Melanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided because         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 93 of 170         Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we		
10-121. +Int+Csp.>L A patient presents with a pigmented skin lesion that could be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in       Melanoma. 10-121. ANS=B. The diagnosis of melanoma should be made by simple excision with clear margins. A shave biopsy should be avoided because         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 93 of 170         Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>		
be a melanoma. Its largest dimension is 0.5 cm. What should be the first step in       simple excision with clear margins. A shave biopsy should be avoided because         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 93 of 170         Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we		
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 93 of 170 Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we		
	Copyrighted Material. ITE Personal Notes. Not for Sale. Page 93 of 170 receive."	watto A. Jintenez, WLD., D.S.E.E. Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
management? A) A shave biopsy B) Excision with a 1-mm margin C) Wide excision with a 1-cm margin D) Wide excision with a 2-cm margin E) Excision with sentinel node dissection	determining the thickness of the lesion is critical for staging. Wide excision with or without node dissection is indicated for confirmed melanoma, depending on the findings from the initial excisional biopsy.
<ul> <li><b>07-081.</b> +Pbc+Com. A 14-year-old male presents to your office with a high fever that began suddenly. He has a diffuse petechial rash and some nuchal rigidity on examination. A lumbar puncture is performed, and gram-negative diplococci are found. You admit him to the hospital. Which one of the following would be most appropriate at this time?</li> <li>A) Immediate chemoprophylaxis for his entire school</li> <li>B) Immediate vaccination of all contacts</li> <li>C) Chemoprophylaxis for family members and very close contacts only</li> <li>D) Isolation of all family members for 1 week</li> <li>E) No preventive measures until culture results are available</li> </ul>	Meningitis. <b>07-081.</b> Prophylaxis. Meningococcal disease remains a leading cause of sepsis and meningitis. <b>ANS=C</b> . Those in close contact with patients who have presumptive meningococcal disease are at heightened risk. While secondary cases have been reported, they are rare because of prompt chemoprophylaxis of household members and anyone directly exposed to the index patient's oral secretions. There is no need to isolate family members. The risk for secondary disease among closest contacts is highest during the first few days after the onset of illness in the index patient, mandating immediate chemoprophylaxis of those exposed. The delay in immunity post vaccination makes it necessary to use other preventive measures instead. <b>Uptodate:</b> Chemoprophylaxis should be administered to close contacts as early as possible after the primary case has been identified (ideally within 24 hours of identification of the index patient), but is of little value if administered more than two weeks after the index case. (See 'Antimicrobial chemoprophylaxis' above.) Regimens for antimicrobial prophylaxis have been defined by the Centers for Disease Control and Prevention, and include rifampin, ciprofloxacin, and ceftriaxone (table 1). (See 'Antimicrobial chemoprophylaxis' above.) Among patients with invasive meningococcal disease, systemic antimicrobial therapy with agents other drugs have been used for treatment, the index patient should receive chemoprophylaxis for eradication of nasopharyngeal carriage before discharge from the hospital in order to prevent subsequent transmission to close contacts. (See 'Nasopharyngeal carriage' above.)
<ul> <li>08-087. +Neu+Adm. One day after a nurse performs CPR on an emergency-department patient, she learns that the patient had meningococcal meningitis. Which one of the following is the most appropriate chemoprophylaxis for this condition?</li> <li>A) Penicillin G benzathine (Bicillin), 1.2 million units intramuscularly</li> <li>B) Rifampin (Rifadin), 600 mg every 12 hours for 2 days</li> <li>C) Oral prednisone, 40 mg daily for 5 days</li> <li>D) Quadrivalent meningococcal vaccine</li> <li>E) No prophylaxis</li> </ul>	Nasopharyngeal carriage above.) Meningitis. <b>08-087.</b> Prophylaxis. <b>ANS=B.</b> Health-care workers exposed to a patient with meningococcal meningitis are at increased risk of developing systemic disease and should receive chemoprophylaxis, especially if the contact is intimate. Secondary cases usually occur within 4 days of the initial case. Therefore, prophylactic treatment should begin as soon as possible. Rifampin has been shown to be 90% effective in eliminating meningococcus from the nasopharynx. Other appropriate chemoprophylactic agents include minocycline and ciprofloxacin. Even high doses of penicillin may not eradicate nasopharyngeal meningococci. Prednisone has no place in chemoprophylaxis. Meningococcal vaccine appears to have clinical efficacy, but it usually takes more than 5 days to become effective.
<ul> <li>07-044. +End+Cfp. A 49-year-old female complains of disabling hot flashes. Her last menstrual period was 6 months ago. Which one of the following nonhormonal treatments has been shown to be helpful in alleviating menopausal hot flashes?</li> <li>A) Paroxetine (Paxil)</li> <li>B) Black cohosh</li> <li>C) Regular exercise</li> <li>D) Phytoestrogens</li> <li>E) Clonidine (Catapres)</li> </ul>	Menopause. 07-044. Hot flashes. ANS=A. The rate of self-reported improvement with placebo treatment of hot flash symptoms after menopause is significant; thus randomized, controlled trials are important when determining efficacy of treatment. There is no evidence that regular exercise, dietary soy, various phytoestrogen preparations, black cohosh, or other alternative therapies are effective in improving menopausal hot flashes. Studies have shown little or no benefit from clonidine. Paroxetine has been shown to have modest value in the treatment of hot flashes.
<b>07-102.</b> +Pbc+Cca. The mother of a newborn has agreed to your suggestion that she breastfeed for at least the first 6 months of her daughter's life. Before being discharged from the hospital, she asks you to clarify some advice she received from friends about the storage and handling of expressed breast milk. Which one of the following would be accurate advice? A) Breast milk can safely be stored at room temperature for up to 8 hours B) Frozen breast milk should be thawed quickly, preferably in a microwave oven C) Once thawed, breast milk may safely be refrozen within 4 hours D) If stored breast milk has separated, it is spoiled E) OSHA guidelines prohibit the storage of human milk in a common refrigerator in the workplace	Milk; breast. 07-102. ANS=A. With many nursing mothers returning to work it is frequently necessary to shift lactation and feeding schedules using techniques such as expressing milk with pumps and storing the excess. Human breast milk may safely be stored up to 10 hours at room temperature, up to 8 days in the refrigerator, and up to 12 months when frozen. When frozen, it should be thawed slowly to preserve nutritious proteins and should not be refrozen. Human breast milk naturally separates and can easily be re-emulsified by shaking. Exposure to human milk is not an occupational hazard under OSHA standards.
<ul> <li>08-027. +Pbc+Cca. A mother brings in her 2-month-old infant for a routine checkup. The baby is exclusively breastfed, and the mother has no concerns or questions. Which one of the following would you recommend at this time in addition to continued breastfeeding?</li> <li>A) Iron supplementation</li> <li>B) Vitamin D supplementation</li> <li>C) A multivitamin</li> <li>D) 8 oz of water daily</li> <li>E) 4 oz of cereal daily</li> </ul>	Milk; breast. <b>08-027. ANS=B.</b> Although breast milk is the ideal source of nutrition for healthy term infants, <u>supplementation with 200 IU/day of vitamin</u> <b>D</b> is recommended beginning at 2 months of age and continuing until the child is consuming at least 500 mL/day of formula or milk containing vitamin <b>D</b> (SOR B). The purpose of supplementation is to prevent rickets. Unless the baby is anemic or has other deficiencies, neither iron nor a multivitamin is necessary. Parents often mistakenly think babies need additional water, which can be harmful because it decreases milk intake and can cause electrolyte disturbances. <u>Cereal should not be started until 4 months of age.</u>
08-145. +Pbc+Cca. Cow's milk should be withheld from a child's diet until what age?         A) 4 months         B) 6 months         C) 9 months         D) 12 months         Copyrighted Material. ITE Personal Notes. Not for Sale.	Milk; cow's. <b>08-145. ANS=D.</b> Whole cow's milk does not supply infants with enough vitamin E, iron, and essential fatty acids, and overburdens their system with too much protein, sodium, and potassium. Skim and low-fat milk lead to the same problems as whole milk, and also fail to provide adequate calories for growth. For these reasons cow's milk is not recommended for children under 12 months of age. Human breast milk or iron-fortified formula, with introduction of Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Document copy for the sole personal use of Dr. Mario Alberto Jimenez certain solid foods and juices after 4–6 months of age if desired, is appropriate for
the first year of life. Mountain sickness. <b>07-144.</b> Acute mountain sickness (AMS). <b>ANS=D.</b> This patient experienced AMS, which is the most common altitude illness. It occurs in 40%–50% of persons from low altitudes who ascend to 14,000 feet. The onset can occur within 8 to 96 hours of arrival at altitudes above 8000 feet, although the altitudes at which symptoms begin vary significantly. AMS is a clinical diagnosis, with the most common symptoms consisting of headache, poor sleep, anorexia, fatigue, nausea, and vomiting. Slow ascent is the best way to avoid AMS. Adequate hydration may be helpful. <u>Acetazolamide and dexamethasone help</u> prevent or mitigate the symptoms of AMS. Individuals who have had AMS in the past should probably be treated prophylactically with acetazolamide. Acetazolamide is a carbonic anhydrase inhibitor that causes a hyperchloremic metabolic acidosis through the loss of bicarbonate, sodium, and potassium in the urine. Respiration is stimulated by the acidosis, which leads to a compensatory respiratory alkalosis. Pretreatment with this agent mimics the acclimated state of acid-base balance, so that during the first day of altitude exposure, subjects taking this drug have values for pH, partial pressure of arterial carbon dioxide, and minute ventilation that are not typically observed until day 5 in control subjects.
Mountain sickness. <b>08-078.</b> Acute. The patient described initially showed signs of acute mountain sickness. <b>ANS=A.</b> These include headache in an unacclimatized person who recently arrived at an elevation >2500 m (8200 ft), plus the presence of one or more of the following: anorexia, nausea, vomiting, insomnia, dizziness, or fatigue. The patient's condition then deteriorated to high-altitude cerebral edema, defined as the onset of ataxia and/or altered consciousness in someone with acute mountain sickness. The management of choice is a combination of descent and supplemental oxygen. Often, a descent of only 500–1000 m (1600–3300 ft) will lead to resolution of acute mountain sickness. Simulated descent with a portable hyperbaric chamber also is effective, but descent should not be delayed while awaiting helicopter delivery. If descent and/or administration of oxygen is not possible, medical therapy with dexamethasone and/or acetazolamide may reduce the severity of symptoms. Nifedipine has also been shown to be helpful in cases of high-altitude pulmonary edema where descent and/or supplemental oxygen is unavailable.
Multiple myeloma. <b>09-031.</b> Ans=D. This patient has typical symptoms and laboratory findings of multiple myeloma, which accounts for 1% of all malignant diseases and has a mean age at diagnosis of 61 years. The <u>diagnosis is confirmed</u> by a bone marrow examination showing >10% plasma cells in the marrow. The <u>serum level of monoclonal immunoglobulin is typically &gt;3 g/dL</u> . A bone scan is inferior to conventional radiography and should not be used. Tamoxifen is indicated for the treatment of breast cancer, which is unlikely given the physical and laboratory findings in this case.
Multiple myeloma. <b>10-207. ANS=A.</b> This patient has smoldering (asymptomatic) multiple myeloma. He does not have any organ or tissue damage related to this disease and has no symptoms. Early treatment of these patients does not improve mortality (SOR A) and may increase the likelihood of developing acute leukemia. The standard treatment for symptomatic patients under age 65 is autologous stem cell transplantation. Patients over 65 who are healthy enough to undergo transplantation would also be appropriate candidates. Patients who are not candidates for autologous stem cell transplantation generally receive melphalan and prednisolone with or without thalidomide. Radiotherapy can be used to relieve metastatic bone pain or spinal cord compression.
Murmur. 07-084. Aortic regurgitation (AR) is the result of incompetent aortic valve leaflets or dilatation of the aortic root. ANS=B. The most common etiology of valvular disease is rheumatic fever, but AR may also occur in patients with a congenital bicuspid aortic valve. Patients may remain asymptomatic for many years, until symptoms of heart failure develop due to left ventricular hypertrophy. The murmur is a diastolic decrescendo, "blowing" quality murmur, beginning right after the second heart sound. It is best heard at the left lower sternal border with the patient upright and leaning forward, placing the heart closest to the anterior chest wall. MURMURS REVIEW: Ø Early third heart sound, that is also called pericardial knock and the inspiratory increase in the jugular venous pressure (Kussmaul's sign), are important physical findings of? Constrictive pericarditis. Ø Cardiomyopathy, Restrictive: Characterized by 1-Severe Diastolic dysfunction due to a stiff ventricular wall. 2-Echo shows symmetrical thickening of the ventricular wall. 3-Kussmal sign. <u>4-Apical impulse palpable</u> . DDX:

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
Early Diastolic Image: State of the second s	Constrictive pericarditis no number 4; cxr shows calcification, and normal thickness of ventricular wall. **Tx of most causes of RCM is useless except hemochromatosis; phlebotomy and iron chelation with subcutaneous deferoxamine may result in substantial improvement. **Since heart can't relax filling is compromised so both Liver and Lung are congested. **X-ray shows mild cardiac silhouette. Echo shows symmetrically thickened vent wall and near normal systolic function. "Speckled Pattern" is specific for amyloidosis. Systolic Ejection Pansystolic at the systolic Click Systolic Click Systolic Electron Systolic Click Systolic Stenosis (Strady Click Stenosis) (Strady Strady Click Stenosis) (Strady Strady Strad
<ul> <li>08-057. +Car+Cca. An asymptomatic 3-year-old male presents for a routine check-up. On examination you notice a systolic heart murmur. It is heard best in the lower precordium and has a low, short tone similar to a plucked string or kazoo. It does not radiate to the axillae or the back and seems to decrease with inspiration. The remainder of the examination is normal. Which one of the following is the most likely diagnosis?</li> <li>A) Eisenmenger's syndrome</li> <li>B) Mitral stenosis</li> <li>C) Peripheral pulmonic stenosis</li> <li>D) Still's murmur</li> <li>E) Venous hum</li> </ul>	Murmur. <b>08-057.</b> benign murmurs of childhood. <b>ANS=D.</b> There are several benign murmurs of childhood that have no association with physiologic or anatomic abnormalities. Of these, Still's murmur best fits the murmur described. The cause of Still's murmur is unknown, but it may be due to vibrations in the chordae tendinae, semilunar valves, or ventricular wall. A venous hum consists of a continuous low-pitched murmur caused by collapse of the jugular veins and their subsequent fluttering, and it worsens with inspiration or diastole. The murmur of physiologic peripheral pulmonic stenosis (PPPS) is caused by physiologic changes in the newborn's pulmonary vessels. PPPS is a systolic murmur heard loudest in the axillae bilaterally that usually disappears by 9 months of age. Mitral stenosis causes a diastolic murmur, and Eisenmenger's syndrome involves multiple abnormalities of the heart that cause significant signs and symptoms, including shortness of breath, cyanosis, and organomegaly, which should become apparent from a routine history and examination.
<b>07-033.</b> +Neu+Adm. A high-school football player reports a history of progressive inability to participate over a month's time. Initially he had double vision following a practice. He was better the following morning, but his symptoms recurred during the next day's practice. Now he has double vision most of the time, except right after sleeping. He says his strength and agility are declining, and his coach thinks he is playing too poorly to remain on the team. On examination he has mild ptosis, which increases if he tries to maintain an upward gaze. His arm strength is initially 5/5, but he tires very rapidly. After a few minutes of isotonic exertion he cannot lift his arms against gravity. His deep tendon reflexes are normal. What is the most likely diagnosis? A) Guillain-Barré syndrome B) Psychophysiologic weakness C) Second impact syndrome D) Myasthenia gravis E) Myotonic dystrophy	Myasthenia gravis. <b>07-033</b> . Myasthenia gravis is a disease of the motor end plate, most often affecting the cranial nerves, especially the oculomotor nerves and the eyelids. <b>ANS=D</b> . The disease begins with weakness and fatigue, but can progress over days to months. Confirmatory testing consists of acetylcholine receptor antibody testing or electromyography when the situation is not urgent. When the diagnosis must be made promptly, the old-fashioned Tensilon test gives immediate and dramatic results. Deep tendon reflexes are lost in Guillain-Barré syndrome, which is an autoimmune polyneuropathy affecting the longest nerves preferentially. Myasthenia seems so odd that it can be mistaken for hysterical or stress-related symptoms. Myotonic dystrophy becomes progressively symptomatic in its victims, and is not always diagnosed before adulthood, but it does not cause double vision, and affected individuals would not be athletes at any point in their lives. They have general weakness and a typical facial appearance. Second impact syndrome is a potentially lethal response to repeated head injury.
<ul> <li>08-211. +Neu+Adm. A 24-year-old gravida 1 para 1 who is 2 weeks post partum complains of double vision, shortness of breath, and almost dropping her baby while trying to hold her. She says her symptoms worsen as the day progresses. She has no family history of neurologic or muscular illness. A physical examination is normal except for unilateral ptosis and 4/5 proximal weakness of both arms. Breath sounds are generally decreased. Routine blood tests, including TSH and creatine kinase levels, are normal. A chest radiograph and an MRI of the brain and cervical spine are also normal. Of the following, this presentation is most consistent with <ul> <li>A) fibromyalgia syndrome</li> <li>B) Sheehan's syndrome (postpartum hypopituitarism)</li> <li>C) polymyositis</li> <li>D) myasthenia gravis</li> <li>E) stroke</li> </ul> </li> </ul>	Myasthenia gravis. <b>08-211.</b> Common neurologic disorders in young women include multiple sclerosis, Guillain-Barré syndrome, and myasthenia gravis. <b>ANS=D.</b> Myasthenia gravis is part of the differential diagnosis for sudden neurologic weakness, and Guillain-Barré syndrome must also be considered in this patient. Multiple sclerosis would not result in respiratory compromise. Myasthenia gravis is an autoimmune neuromuscular disease characterized by varying degrees of skeletal muscle weakness. Symptoms, which vary in type and severity, may include ptosis of one or both eyelids; blurred vision; diplopia; unstable gait; weakness in the arms, hands, fingers, legs, and neck; difficulty swallowing; shortness of breath; and impaired speech (dysarthria). In most cases, the first noticeable symptom is weakness of the eye muscles. Muscles that control respiration and neck and limb movements may also be affected. Symptoms typically worsen through the day or as the muscles are repetitively used, and improve with rest. Fibromyalgia does not produce objective neurologic findings, and Sheehan's syndrome would not cause a localized neurologic deficit. In addition, the TSH level would be low or zero, and the MRI of the brain would be abnormal. An MRI of the brain would also be abnormal if stroke symptoms had been present for 2 weeks. The patient is unlikely to have unilateral symptoms with polymyositis, and creatine kinase would be elevated.
<b>07-037.</b> +Car+Adm. Having all patients over age 50 take low-dose (81 mg) aspirin daily would result in <ul> <li>A) a decrease in cardiovascular mortality in men and women</li> </ul>	Myocardial infarction. <b>07-037.</b> Prophylaxis. Aspirin. <b>ANS=C.</b> A meta-analysis of six well controlled clinical trials of aspirin prophylaxis showed a 32% decrease in myocardial infarctions in men taking aspirin. There was no decrease in Mario A limenez M.D. B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007 B) a decrease in hemorrhagic stroke in women C) a decrease in myocardial infarction in men D) a decrease in strokes in men E) no increase in major bleeding episodes				Document copy for the sole personal use of Dr. Mario Alberto Jimenez cardiovascular mortality or all-cause mortality in either sex, and there was a trend toward increased risk of stroke, primarily hemorrhagic stroke. There was a 24% decrease in ischemic stroke in women, however. The risk of major bleeding disorders was around 76% higher in aspirin users. The analysis suggests that aspirin may do more harm than good in healthy persons without cardiovascular risk factors. Myocardial infarction. <b>08-020.</b> Acute; indication for thrombolytic therapy. <b>ANS=B</b> In patients with ischemic chest pain, the EKG is important for determining the need for fibrinolytic therapy. In addition to ST elevation ≥1 mm in two or more contiguous standard limb leads and ≥2 mm in two or more contiguous precordial leads, patients should also have new left bundle branch block. In a patient with a presumed MI, left bundle branch block suggests occlusion of the left anterior descending artery, placing a significant portion of the left ventricle in jeopardy. Thrombolytic therapy could be harmful in patients with ST-segment depression only. Frequent unifocal ventricular ectopy may warrant antiarrhythmic therapy, but not thrombolytic therapy.
<ul> <li>08-020. +Car+Adm. In a patient who presents with symptoms of acute myocardial infarction, which one of the following would be an indication for thrombolytic therapy?</li> <li>A) New-onset ST-segment depression</li> <li>B) New-onset left bundle branch block</li> <li>C) New-onset first degree atrioventricular block</li> <li>D) New-onset Wenckebach second degree heart block</li> <li>E) Frequent unifocal ventricular ectopic beats</li> </ul>		n indication for thrombolytic		
etting her hair fer blood press w minutes aff bllowing is the	done and arriv sure is elevated ter her arrival is e most likely dia C) Acute inferio	es at the emergency , but other vital sign s shown in. Based o agnosis? A) Pulmon	ps pain in her chest while / department within 15 minutes. ns are normal. An EKG taken a n the EKG, which one of the nary embolism B) High lateral tion D) Right bundle branch	Myocardial infarction. <b>08-232.</b> Acute inferior. <b>ANS=C.</b> This EKG tracing is most consistent with acute inferior myocardial infarction with ST-T-wave elevations is inferior leads II, III, and aVF. The ST-T-segment changes in lead II appear more nonspecifically abnormal, but with clear elevations of the ST-T segments in lead III and aVF, acute myocardial infarction is most likely. This can be corroborated by the so-called reciprocal ST-T-segment depressions in leads I and aVL. The ST-T-segment depressions in leads I, aVL, and to a lesser extent V6, might be seen in high lateral wall ischemia, but the inferior leads would not exhibit the ST
1	ļ	Y	1	T elevations if this were just ischemia. Although the QRS complex is slightly widened in this tracing (107 msec), right bundle branch block is not present. Wit P waves before each QRS, the rhythm is sinus, not atrial flutter. None of the findings in this EKG are characteristic of pulmonary embolism.
A	-trt	7	the state	
and the last	sa la la		and the second	
	- And	- La fr	- And	
a start and a start and a start a star	- Janda	the second	- Andrew Marine	
	- And -	at the	and the second	
2	- mark	5	the second se	
lisease with the when applied to A) A 19-year-o	e Framingham l o which one of old female with	Heart Study Score S the following indiv a strong family hist	of developing coronary heart Sheet would be most reliable iduals? iory of cardiac disease previous myocardial infarction	Myocardial infarction. <b>10-050.</b> Framingham Heart Study. <b>ANS=C.</b> The 10-year risk of developing coronary heart disease can be effectively predicted with the algorithmic calculator developed using multivariable data collected over a period of more than half a century as part of the Framingham Heart Study. This iconic study defined what are now commonly known as major risk factors: elevated

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>C) An otherwise healthy 36-year-old white male smoker</li> <li>D) A postmenopausal 54-year-old female with angina</li> <li>E) A 78-year-old male with a history of hypertension</li> </ul>	blood pressure, cigarette smoking, cholesterol levels, diabetes mellitus, and advancing age. Using measurements of each of these risk factors and consideration of the gender of the individual, a reliable determination of risk can be obtained in individuals 30–74 years of age who have no overt coronary heart disease. The largely white study population presumptively makes the risk determination most accurate for white patients.
<ul> <li>10-070. +Car+Euc.&gt;L* A 78-year-old male presents for a routine follow-up visit for hypertension. He is a smoker, but has no known coronary artery disease and is otherwise healthy. On examination you note an irregular pulse. An EKG reveals multiple premature ventricular contractions (PVCs), but no other abnormalities. Current guidelines recommend which one of the following? A) Amiodarone (Cordarone) for suppression of PVCs</li> <li>B) Flecainide (Tambocor) for suppression of PVCs</li> <li>C) Evaluation for underlying coronary artery disease</li> <li>D) No further evaluation or treatment</li> </ul>	Myocardial infarction. <b>10-070.</b> Premature ventricular contractions (PVCs). <b>ANS=C.</b> In patients with no known coronary artery disease (CAD), the presence of frequent PVCs is linked to acute myocardial infarction and sudden death. The Framingham Heart Study defines frequent as >30 PVCs per hour. The American College of Cardiology and the American Heart Association recommend evaluation for CAD in patients who have frequent PVCs and cardiac risk factors, such as hypertension and smoking (SOR C). Evaluation for CAD may include stress testing, echocardiography, and ambulatory rhythm monitoring (SOR C). Strong evidence from randomized, controlled trials suggests that PVCs should not be suppressed with antiarrhythmic agents. The CAST I trial showed that using encainide or flecainide to suppress PVCs increases mortality (SOR A).
<ul> <li>10-105. +Car+Adm. The U.S. Preventive Services Task Force (USPSTF) has stated that the potential cardiovascular benefits of daily aspirin use outweigh the potential harms of gastrointestinal hemorrhage in certain populations. The USPSTF currently recommends daily aspirin use for which one of the following populations?</li> <li>A) Males 25–44 years of age</li> <li>B) Males over 80 years of age</li> <li>C) Females 25–44 years of age</li> <li>D) Females over 45 years of age</li> <li>E) Females 55–79 years of age</li> </ul>	Myocardial infarction. <b>10-105.</b> Prophylaxis. <b>ANS=E.</b> The U.S. Preventive Services Task Force (USPSTF) recommends daily aspirin use for males 45–79 years of age when the potential benefit of a reduction in myocardial infarction outweighs the potential harm of an increase in gastrointestinal hemorrhage, and for females 55–79 years of age when the potential benefit of a reduction in ischemic strokes outweighs the potential harm of an increase in gastrointestinal hemorrhage (SOR A, USPSTF A Recomendation). The USPSTF has concluded that the current evidence is insufficient to assess the balance of benefits and harms of aspirin for cardiovascular disease prevention in men and women 80 years of age or older (USPSTF I Recommendation). It recommends against the use of aspirin for stroke prevention in women younger than 55, and for myocardial infarction prevention in men younger than 45 (USPSTF D Recommendation).
<ul> <li>10-108. +Car+Adm. In the secondary prevention of ischemic cardiac events, which one of the following is most likely to be beneficial in a 68-year-old female with known coronary artery disease and preserved left ventricular function?</li> <li>A) ACE inhibitors</li> <li>B) Hormone therapy</li> <li>C) Calcium channel blockers</li> <li>D) Vitamin E</li> <li>E) Oral glycoprotein IIb/IIIa receptor inhibitors</li> </ul>	Myocardial infarction. <b>10-108.</b> Secondary prevention of cardiac events consists of long-term treatment to prevent recurrent cardiac morbidity and mortality in patients who have either already had an acute myocardial infarction or are at high risk because of severe coronary artery stenosis, angina, or prior coronary surgical procedures. <b>ANS=A.</b> Effective treatments include aspirin, B-blockers after myocardial infarction, ACE inhibitors in patients at high risk after myocardial infarction, angiotensin II receptor blockers in those with coronary artery disease, and amiodarone in patients who have had a myocardial infarction and have a high risk of death from cardiac arrhythmias. Oral glycoprotein IIb/IIIa receptor inhibitors appear to increase the risk of mortality when compared with aspirin. Calcium channel blockers, class I anti-arrhythmic agents, and stalol all appear to increase mortality compared with placebo in patients who have had a myocardial infarction. Contrary to decades of large observational studies, multiple randomized, controlled trials show no cardiac benefit from hormone therapy in postmenopausal women.
<ul> <li>10-176. +Car+Euc.&gt;L* A 45-year-old male is seen in the emergency department with a 2-hour history of substernal chest pain. An EKG shows an ST-segment elevation of 0.3 mV in leads V4–V6. In addition to evaluation for reperfusion therapy, which one of the following would be appropriate?</li> <li>A) Enteric aspirin, 81 mg</li> <li>B) Intravenous metoprolol (Lopressor)</li> <li>C) Oral clopidogrel (Plavix)</li> <li>D) Warfarin (Coumadin), after blood is drawn to establish his baseline INR</li> <li>E) Delaying treatment pending results of two sets of cardiac enzyme measurements</li> <li>10-224. +Car+Euc.&gt;L* Occlusion of the circumflex artery is most likely to cause EKG changes in A) V1 and V2</li> <li>B) V3 and V4</li> </ul>	Myocardial infarction. <b>10-176.</b> ST-segment elevation myocardial infarction (STEMI). <b>ANS=C.</b> This patient has an STEMI. STEMI is defined as an ST- segment elevation of greater than 0.1 mV in at least two contiguous precordial or adjacent limb leads. The most important goal is to begin fibrinolysis less than 30 minutes after the first contact with the health system. The patient should be given oral clopidogrel, and should also chew 162–325 mg of aspirin. Enteric aspirin has a delayed effect. Intravenous B-blockers such as metoprolol should not be routinely given, and warfarin is not indicated. Delaying treatment until cardiac enzyme results are available in a patient with a definite myocardial infarction is not appropriate. Myocardial infarction. <b>10-224.</b> Circumflex occlusion causes changes in I, AVL, and possibly V5 and V6 as well. <b>ANS=D.</b> Left anterior descending coronary artery occlusion causes changes in V1 to V6. Right coronary occlusion causes changes in II, III, and AVF.
<ul> <li>C) II, III, and AVF</li> <li>D) I and AVL</li> <li><b>09-222.</b> +Car+Csp. Which one of the following surgical procedures is associated with the highest risk for perioperative myocardial ischemia? A) Femoropopliteal bypass B) Pulmonary lobectomy C) Hip arthroplasty D) Transurethral resection of the prostate E) Mastectomy</li> </ul>	Myocardial ischemia. <b>09-222.</b> Perioperative <b>ANS=A.</b> When deciding whether or not to recommend preoperative noninvasive cardiac testing, both patient risk factors and surgical risk factors should be taken into account. Surgical procedures associated with a high (>5%) risk of perioperative myocardial ischemia include aortic and peripheral vascular surgery and emergent major operations, especially in patients over 75 years of age. Head and neck surgery, intraperitoneal and intrathoracic surgery, orthopedic surgery, and prostate surgery carry an intermediate risk (1%–5%). Endoscopic procedures and cataract and breast surgeries are considered low-risk (<1%) procedures.
<b>08-024.</b> +Mus+Adm. A 44-year-old African-American female reports diffuse aching, especially in her upper legs and shoulders. The aching has increased, and she now has trouble going up and down stairs because of weakness. She has no visual symptoms, and a neurologic examination is normal except for proximal muscle weakness. Laboratory tests reveal elevated levels of serum creatine kinase and aldolase. Her symptoms improve significantly when she is Copyrighted Material. ITE Personal Notes. Not for Sale. Page 98 of 170	Myopathy. 08-024. ANS=E. The patient described has an inflammatory myopathy of the polymyositis/dermatomyositis group. Proximal muscle involvement and elevation of serum muscle enzymes such as creatine kinase and aldolase are characteristic. Corticosteroids are the accepted treatment of choice. It is extremely unlikely that Duchenne's muscular dystrophy would present after age 30. In amyotrophic lateral sclerosis, an abnormal neurologic examination with findings Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
treated with corticosteroids. Which one of the following is the most likely diagnosis? A) Duchenne's muscular dystrophy	of upper motor neuron dysfunction is characteristic. Patients with myasthenia gravis characteristically have optic involvement, often presenting as diplopia. The predominant symptom of aseptic necrosis of the femoral head is pain rather than
B) Myasthenia gravis C) Amyotrophic lateral sclerosis	proximal muscle weakness. Elevated muscle enzymes are not characteristic.
D) Aseptic necrosis of the femoral head E) Polymyositis	
<b>09-170.</b> +Mus+Cel An 80-year-old female is seen for progressive weakness over the past 8 weeks. She says she now has difficulty with normal activities such as getting out of a chair and brushing her teeth. Her medical problems include hypertension, diabetes mellitus, and hyperlipidemia. Her medications include glipizide (Glucotrol), simvastatin (Zocor), and lisinopril (Prinivil, Zestril). Findings on examination are within normal limits except for diffuse proximal muscle weakness and normal deep tendon reflexes. A CBC, urinalysis, erythrocyte sedimentation rate, TSH level, and serum electrolyte levels are normal. Her blood glucose level is 155 mg/dL, and her creatine kinase level is 1200 U/L (N 40–150). Which one of the following is the most likely diagnosis? A) Statin-induced myopathy B) Polymyalgia rheumatica C) Guillain-Barré syndrome D) Diabetic ketoacidosis	Myopathy. 09-170. Drug-induced. ANS=A. This patient is most likely suffering from a drug-induced myopathy caused by the simvastatin, which is associated with elevated creatine kinase. Polymyalgia rheumatica is usually associated with an elevated erythrocyte sedimentation rate. Guillain-Barré syndrome is associated with depressed deep tendon reflexes. This case has no clinical features or laboratory findings that suggest ketoacidosis.
<b>09-025.</b> +Psy+Mhe. A 40-year-old obese African-American male presents with a history of excessive daytime drowsiness. He readily falls asleep when reading or watching television. He admits to nearly crashing his car twice in the past month because he briefly fell asleep behind the wheel. Most frightening to the patient have been episodes characterized by sudden loss of muscle tone, lasting about 1 minute, associated with laughing. An overnight sleep study shows decreased sleep latency and no evidence of obstructive sleep anea. Appropriate treatment includes which one of the following? A) Methylphenidate (Ritalin) B) Zolpidem (Ambien) at bedtime C) Carbidopa/levodopa (Sinemet) D) Weight reduction E) Avoidance of daytime napping	Narcolepsy. <b>09-025.</b> The clinical history and laboratory findings presented are consistent with a diagnosis of narcolepsy. Methylphenidate and other stimulant drugs remain the pharmacologic agents of choice in managing this disorder. Since there is no evidence of obstructive sleep apnea, weight reduction would not be expected to address his sleep problem. In general, sedatives, hypnotics, and alcohol should be avoided. Periodic daytime naps may help to reduce symptoms.
<ul> <li>07-085. +Sen+Cca. A 4-month-old male is brought to your office for a routine examination. He has experienced normal growth and development and is current on all vaccines. The mother's only concern is persistent tearing in his left eye. Which one of the following would be the most appropriate course of action?</li> <li>A) Referral to an ophthalmologist for immediate tear duct dilation B) Topical corticosteroid drops to facilitate tear duct opening C) Topical antibiotics to prevent tear duct infection</li> <li>D) Reassuring the parents that this condition usually resolves spontaneously by 1 year of age</li> </ul>	Nasolacrimal duct obstruction. 07-085. ANS=D. This infant has nasolacrimal duct obstruction. This condition occurs in up to 20% of children during the first year of life. Spontaneous resolution occurs by 6 months of age in 90% of children, but the chance of spontaneous resolution decreases to less than 1% if the obstruction is still present at 1 year of age. This condition usually has a benign course. Referral to an ophthalmologist is indicated only if the tear duct remains clogged at 1 year of age. Antibiotics are necessary only if signs of infection arise, and daily tear duct massage can help prevent infection. Topical corticosteroids would be used only after surgery, to help keep the tear duct open.
<ul> <li>10-174. +Gas+Mac.* Which one of the following is considered first-line therapy for nausea and vomiting of pregnancy?</li> <li>A) Ginger</li> <li>B) Blue cohosh</li> <li>C) Cranberry</li> <li>D) Vitamin B6</li> <li>E) Fenugreek</li> </ul>	Nausea and vomiting of pregnancy. <b>10-174. ANS=D.</b> A number of alternative therapies have been used for problems related to pregnancy, although vigorous studies are not always possible. For nausea and vomiting, however, vitamin B6 is considered first-line therapy, sometimes combined with doxylamine. Other measures that have been found to be somewhat useful include ginger and acupressure. Cranberry products can be useful for preventing urinary tract infections, and could be recommended for patients if this is a concern. Blue cohosh is used by many midwives as a partus preparator, but there are concerns about its safety. Fenugreek has been used to increase milk production in breastfeeding mothers, but no rigorous trials have been performed.
<b>07-014.</b> +Pbc+Mac. Amnioinfusion during labor is indicated for which one of the following conditions? A) Moderate or thick meconium-stained amniotic fluid B) Prolonged rupture of membranes C) Persistent late fetal heart rate decelerations D) Fetal tachycardia E) Uterine hyperstimulation	Neonatal respiratory distress. <b>07-014.</b> Amniotic fluid. <b>ANS=A.</b> Amnioinfusion has been shown to be helpful in improving perinatal outcomes in patients with moderate or thick meconium-stained amniotic fluid. It also is useful for suspected umbilical cord compression during labor. Amnioinfusion has been used for preterm rupture of membranes and oligohydramnios, but there is not enough evidence to support its use. It also is not considered a therapeutic option for prolonged rupture of membranes, persistent late fetal heart rate decelerations, fetal tachycardia, or uterine hyperstimulation.
<ul> <li>08-077. +Res+Cca. A male infant is delivered by cesarean section because of dystocia due to macrosomia. Apgar scores are 8 at 1 minute and 10 at 5 minutes. However, at about 1 hour of age he begins to have tachypnea without hypoxemia. A chest radiograph shows diffuse parenchymal infiltrates and fluid in the pulmonary fissures. The symptoms resolve without treatment within 24 hours. The most likely diagnosis is</li> <li>A) transient tachypnea of the newborn</li> <li>B) intracranial hemorrhage</li> <li>C) laryngotracheomalacia</li> <li>D) meconium aspiration syndrome</li> <li>E) hyaline membrane disease</li> </ul>	Neonatal respiratory distress. <b>08-077.</b> Transient tachypnea of the newborn. <b>ANS=A.</b> This child had transient tachypnea of the newborn, the most common cause of neonatal respiratory distress. It is a benign condition due to residual pulmonary fluid remaining in the lungs after delivery. Risk factors include cesarean delivery, macrosomia, male gender, and maternal asthma and/or diabetes mellitus. The other conditions listed cause neonatal respiratory distress, but do not resolve spontaneously. They also cause additional significant abnormal findings on physical examination and/or ancillary studies such as imaging and laboratory studies.
<b>08-157.</b> +Res+Cca. A male infant is delivered at 41 weeks gestation by spontaneous vaginal delivery. The amniotic fluid is meconium stained. Apgar scores are 7 at 1 minute and 7 at 5 minutes. The baby is noted to have respiratory distress from birth and is hypoxic by pulse oximetry. Respiration improves with supplemental oxygen, as does the hypoxia, but does not return to normal. Which one of the following would most likely be seen on a chest radiograph? A) A normal heart and lungs B) Fluid in the pulmonary fissures C) Homogeneous opaque infiltrates with air bronchograms D) Patchy atelectasis Copyrighted Material. ITE Personal Notes. Not for Sale. Page 99 of 170	Neonatal respiratory distress. <b>08-157.</b> Meconium aspiration. <b>ANS=D.</b> The <b>chest</b> <b>radiograph of a child with meconium aspiration syndrome will show patchy</b> <b>atelectasis or consolidation</b> . If the child has a normal chest film and respiratory distress, a noncardiopulmonary source should be considered (i.e., a neurologic or metabolic etiology). The chest film of a child with <u>transient tachypnea of the</u> <u>newborn</u> will show a <u>"wet silhouette" around the heart, diffuse parenchymal infiltrates, or intralobar fluid accumulation. Homogeneous opaque infiltrates with air bronchograms on a chest radiograph are seen with <u>hyaline</u> Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i></u>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
--------------------------------	--

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>08-065. +Nep+Adm. A 62-year-old male is admitted to the hospital with acute renal failure. A renal biopsy confirms the diagnosis of acute interstitial nephritis (AIN). Infection and immune-associated causes are ruled out, and you consider medications as a potential cause. Which one of the following would be most likely to cause AIN?</li> <li>A) Chronic daily use of metoprolol (Lopressor)</li> <li>B) Twice-daily use of ibuprofen for 2 weeks</li> <li>C) Initiation of lisinopril (Prinivil, Zestril) therapy 1 week ago</li> <li>D) A 5-day course of azithromycin (Zithromax) 6 months ago</li> <li>E) Intermittent use of acetaminophen, up to 4 g/day</li> <li>10-229. +Nep+Adm. The most common cause of acute interstitial nephritis is A) hypertension</li> <li>B) pyelonephritis</li> <li>C) collagen vascular disease</li> <li>D) dehydration</li> <li>E) hypersensitivity to medications</li> </ul>	<ul> <li>membrane disease.</li> <li>Nephritis. 08-065. Acute interstitial nephritis, Acute interstitial nephritis (AIN) is often drug-induced. ANS=B. Discontinuation of medications that are likely to cause AIN is the most important first step in management. If these medications are withdrawn early, most patients can be expected to recover normal renal function. Of the medications listed, ibuprofen is the most likely offending agent, because all NSAIDs are known to be associated with AIN. Development of AIN usually becomes evident approximately 2 weeks after starting a medication and is not dose-related. Other medications strongly associated with AIN include various antibiotics (particularly cephalosporins, penicillins, sulfonamides, aminoglycosides, and rifampin), diuretics, and miscellaneous medications such as allopurinol.</li> <li>Nephritis. 10-229. Acute interstitial. ANS=E. Approximately 85% of cases of acute interstitial nephritis result from a drug-related hypersensitivity reaction; other cases are due to mechanisms such as an immunologic response to infection or an idiopathic immune syndrome. Hypertension and dehydration do not cause interstitial nephritis. Medications that most commonly cause acute interstitial nephritis through hypersensitivity reactions include penicillins, sulfa drugs, and NSAIDs. Urinalysis typically reveals moderate to minimal proteinuria, except in NSAID-induced acute interstitial nephritis, in which proteinuria may reach the nephrotic range. Other typical findings include sterile pyura, the absence of red blood cell casts, and frequently eosinophiluria, but none of these findings is pathognomonic. Withdrawal of the causative agent leads to resolution of the problem within 7–10 days in the majority of cases, and most patients have a good recovery.</li> </ul>
<ul> <li>10-162. +Non+Adm.&gt;L* A 62-year-old male on hemodialysis develops a pruritic rash on his arms and chest, with erythematous, thickened plaques and edema. He had brain imaging with a gadolinium-enhanced MRI for neurologic symptoms 10 days ago. Which one of the following is true regarding this problem?</li> <li>A) A skin biopsy is diagnostic</li> <li>B) The problem is limited to the skin</li> <li>C) Immediate treatment is critical</li> <li>D) The disease is more common in males</li> <li>E) Death from the disease is unusual</li> </ul>	Nephrogenic systemic fibrosis. <b>10-162.</b> Gadolinium-associated. <b>ANS=A.</b> This patient has gadolinium-associated nephrogenic systemic fibrosis, which is associated with the use of gadolinium-based contrast material in patients with severe renal dysfunction, often on dialysis. Associated proinflammatory states, such as recent surgery, malignancy, and ischemia, are often present as well. This condition occurs without regard to gender, race, or age. Dermatologic manifestations are usually seen, but multiple organ systems may be involved. There is no effective treatment, and mortality is approximately 30%. A deep biopsy of the affected skin is diagnostic.
<ul> <li>07-125. +Nep+Adm. An 81-year-old male is scheduled to have an abdominal CT with contrast to assess for a possible tumor. His medical history is significant for COPD and type 2 diabetes mellitus. His serum creatinine level is 1.5 mg/dL (N 0.6–1.5). Which one of the following would decrease the likelihood of contrast-related nephropathy in this patient?</li> <li>A) Oral acetylcysteine (Mucomyst) begun 24 hours before the procedure</li> <li>B) Oral acetylcysteine begun 24 hours after the procedure</li> <li>C) Oral enalapril (Vasotec) begun 24 hours before the procedure</li> <li>D) Oral enalapril begun 24 hours after the procedure</li> </ul>	Nephropathy. 07-125. Contrast-related nephropathy, prevention of. ANS=A. Several interventions have been shown to reduce the risk of contrast-related nephropathy (elevation of serum creatinine after contrast is administered). <u>Oral</u> <u>acetylcysteine lowers the risk if it is taken 24 hours before administration of</u> <u>the contrast</u> . It is not effective if given after the procedure. <u>Medications with</u> <u>renal effects, such as the ACE inhibitor enalapril, can increase the risk of</u> <u>contrast-related nephropathy and should be stopped before administering</u> <u>the contrast</u> . <u>Hyperosmolar media are more likely to cause contrast</u> <u>nephropathy than are hypo-osmolar contrast media.</u>
<ul> <li>E) Use of a hyperosmolar contrast medium</li> <li>08-110. +Nep+Cel. A 75-year-old patient with underlying chronic renal failure requires cardiac catheterization. Which one of the following interventions is most likely to help prevent acute renal failure due to contrast-induced nephropathy?</li> <li>A) Hydration with normal saline and mannitol</li> <li>B) Hydration with sodium bicarbonate</li> <li>C) Hydration plus a loop diuretic</li> <li>D) Administering fenoldopam (Corlopam) prior to the procedure</li> <li>E) Infusion of natriuretic peptides prior to the procedure</li> </ul>	Nephropathy. <b>08-110.</b> Contrast-induced. <b>ANS=B.</b> Several studies have demonstrated that hydration with sodium bicarbonate reduces the risk of contrast-induced nephropathy in those undergoing cardiac catheterization. Studies of interventions to prevent renal failure in patients at high risk have shown that mannitol plus hydration does not reduce acute renal failure compared to hydration alone. Randomized, controlled trials have shown that fenoldopam does not decrease the need for dialysis or improve survival. One systematic review found that low-osmolality contrast media reduced nephrotoxicity in persons with underlying renal failure requiring studies using contrast. One systematic review and one subsequent randomized, controlled trial found that adding loop diuretics to fluids alone. A large randomized, controlled trial found no significant difference between natriuretic peptides and placebo in preventing acute renal failure induced by contrast media.
<b>09-023.</b> +Nep+Adm. A 78-year-old white male is scheduled to undergo CT with contrast. His current diagnoses include type 2 diabetes mellitus, heart failure, anemia of chronic disease, and renal insufficiency. Evidence supports the use of which one of the following to reduce the risk of contrast-induced nephropathy in this patient? A) Intravenous furosemide B) Ascorbic acid C) Calcium antagonists D) Isotonic bicarbonate infusion E) High osmolar contrast media	Nephropathy. <b>09-023.</b> Contrast-induced nephropathy. Low-osmolar or iso- osmolar contrast media should be used <u>to prevent contrast-induced</u> <u>nephropathy</u> in at-risk patients. The volume of contrast medium should be as low as possible. Evidence also supports <u>hydration before the procedure, preferably</u> <u>with isotonic saline or isotonic sodium bicarbonate solution.</u>
<b>09-204.</b> +Gas+Cel. A 70-year-old white male with hypertension has several abnormal liver function tests on routine testing. He says he does not drink alcohol, and the prescription medications he is taking are unlikely to cause hepatotoxicity. However, during more extensive history taking, he tells you that he does use some over-the-counter medications. Which one of these is most likely responsible for the abnormal laboratory findings? A) Aspirin, used occasionally for headache B) A fiber supplement taken to promote regular bowel habits C) One long-acting niacin tablet per day D) One 250-mg vitamin C tablet daily E) Chewable simethicone after meals, almost daily	Niacin hepatotoxicity. <b>09-204.</b> Hepatotoxicity resulting from timed-release formulations of niacin has been reported in elderly individuals. <b>ANS=C.</b> Patients may be taking this supplement without their physician's knowledge, feeling it is safe because it is a vitamin. Aspirin and vitamin C can result in gastrointestinal iron loss and anemia. The other medications listed, if used in moderation, would not be expected to alter laboratory findings.
07-222. +Neu+Cel. An 81-year-old female is brought to your office by her son.           Copyrighted Material. ITE Personal Notes. Not for Sale.         Page 100 of 170	Normal pressure hydrocephalus. <b>07-222.</b> (NPH). <b>ANS=E.</b> Gait instability Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>
receive."	· ·

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
He reports a decrease in his mother's memory and prolonged delays in her responses to questions. She also has developed urinary incontinence. MRI shows dilated ventricles, but no other pathology, and a lumbar puncture reveals a normal opening pressure. Which one of the following would provide additional evidence of normal pressure hydrocephalus? A) Monocular visual loss B) Internuclear ophthalmoplegia C) Headache D) Motor weakness E) Apraxia of gait	(sometimes referred to as apraxia of gait), urinary incontinence, and dementia are typical signs and symptoms of NPH. A decrease in the absorption of cerebrospinal fluid (CSF) results in ventricular enlargement, but no significant increase in CSF pressure. Although it accounts for less than 5% of dementia cases, it is important to recognize NPH because it may be effectively treated by shunting in some patients. Monocular visual loss and headache are symptoms of benign intracranial hypertension (pseudotumor cerebri), and internuclear ophthalmoplegia is a sign of multiple sclerosis. Motor weakness is not a sign of NPH.
<ul> <li>B) Apraxia of gait</li> <li>10-147. +Neu+Cel. A previously alert, otherwise healthy 74-year-old African-American male has a history of slowly developing progressive memory loss and dementia associated with urinary incontinence and gait disturbance resembling ataxia. This presentation is most consistent with</li> <li>A) normal pressure hydrocephalus</li> <li>B) Alzheimer's disease</li> <li>C) subacute sclerosing panencephalitis</li> <li>D) multiple sclerosis</li> </ul>	Normal pressure hydrocephalus. <b>10-147. ANS=A.</b> In normal pressure hydrocephalus a mild impairment of memory typically develops gradually over weeks or months, accompanied by mental and physical slowness. The condition progresses insidiously to severe dementia. Patients also develop an unsteady gait and urinary incontinence, but there are no signs of increased intracranial pressure. In Alzheimer's disease the brain very gradually atrophies. A disturbance in memory for recent events is usually the first symptom, along with some disorientation to time and place; otherwise, there are no symptoms for some period of time. Subacute sclerosing panencephalitis usually occurs in children and young adults between the ages of 4 and 20 years and is characterized by deterioration in behavior and work. The most characteristic neurologic sign is mild clonus. Multiple sclerosis is characteristically marked by recurrent attacks of demyelinization. The clinical picture is pleomorphic, but there are usually sufficient typical features of incoordination, paresthesias, and visual complaints. Mental changes may occur in the advanced stages of the disease. About two-thirds
<ul> <li>10-019P. +Non+Adm. &gt;L* Which one of the following is true regarding NSAIDs?</li> <li>A) They are cardioprotective</li> <li>B) They should be avoided in persons with cirrhotic liver disease</li> <li>C) They are not safe in pregnancy</li> <li>D) They are not safe in lactating women</li> </ul>	of those affected are between the ages of 20 and 40. NSAIDs. <b>10-019</b> . NSAIDs are prescribed commonly and many are available over the counter. <b>ANS=B</b> . It is important for clinicians to understand when they are not appropriate for clinical use. They should be avoided, if possible, in persons with hepatic cirrhosis (SOR C). While hepatotoxicity with NSAIDs is rare, they can increase the risk of bleeding in cirrhotic patients, as they further impair platelet function. In addition, NSAIDs decrease blood flow to the kidneys and can increase the risk of renal failure in patients with cirrhosis. NSAIDs differ from aspirin in terms of their cardiovascular effects. They have the potential to increase cardiovascular morbidity, worsen heart failure, increase blood pressure, and increase events such as ischemia and acute myocardial infarction. There are no known teratogenic effects of NSAIDs in humans. This drug class is considered to be safe in pregnancy in low, intermittent doses, although discontinuation of NSAID use within 6–8 weeks of term is recommended. Ibuprofen, indomethacin, and naproxen are considered safe for harding and the pressure of the previous of the order of the previous of the order of the disterior of the order of the previous of the order of the
<b>07-206.</b> +Pbc+Com. Food with a higher glycemic index A) releases carbohydrates into the bloodstream as glucose more rapidly B) induces a slower insulin response C) is less likely to lead to reactive hypoglycemia D) is less likely to lead to metabolic syndrome E) leads to lower levels of circulating insulin	lactating women, according to the American Academy of Pediatrics. Obesity. 07-206. Nutrition. The higher the glycemic index of a food, the more rapidly its carbohydrates are released into the bloodstream as glucose. ANS=A. Foods with a high glycemic index induce a more rapid insulin response, are more likely to lead to reactive hypoglycemia and a metabolic syndrome, and lead to
<ul> <li>09-163. +Non+Cca. Overweight and obesity in children should be determined by which one of the following? A) Body weight B) BMI percentile for age and gender C) Individual BMI D) Abdominal girth E) Percentage of body fat</li> <li>07-066. +Psy+Mhe. Which one of the following is true concerning the treatment of patients with obsessive-compulsive disorder (OCD)? A) Behavioral therapy</li> </ul>	higher levels of circulating insulin. Obesity. 09-163. ANS=B. In children, overweight and obesity is determined by the BMI percentile for age and gender. In adults, BMI, body fat percentage, and abdominal girth are used to determine a patient's classification (SOR B). Obsessive-compulsive disorder. 07-066. (OCD). ANS=D. Stopping SSRIs causes a high rate of relapse of obsessive-compulsive symptoms. Obsessive-compulsive
fails to improve OCD B) SSRIs are ineffective for OCD in children C) Tricyclic antidepressants are more effective than SSRIs for treating OCD D) Discontinuing SSRIs is associated with a high rate of relapse	patients are usually very aware that their behavior is illogical, and behavioral therapy is very effective in treating obsessions. SSRIs are effective in both adults and children, and are more effective than tricyclic antidepressants for treating obsessive-compulsive disorder.
<ul> <li>09-215. +Psy+Mhe. Which one of the following is recommended for the treatment of patients with obsessive compulsive disorder?</li> <li>A) Cognitive-behavioral therapy B) Psychoanalytic therapy</li> <li>C) Family therapy D) Psychodynamic psychotherapy E) Motivational interviewing</li> </ul>	Obsessive-compulsive disorder. <b>09-215. ANS=A.</b> Cognitive-behavioral therapy is the recommended treatment for obsessive-compulsive disorder (OCD). Psychoanalytic therapy has not been shown to help treat OCD. Family therapy can help reduce family tensions that result from the disease. Psychodynamic psychotherapy and motivational interviewing may help patients overcome their resistance to treatment.
<ul> <li>07-080. +Res+Com. For adults with obstructive sleep apnea, which one of the following is the most effective treatment?</li> <li>A) Modafinil (Provigil)</li> <li>B) Weight reduction to achieve a body mass index (BMI) &lt;30 kg/m2</li> <li>C) Mandible-positioning oral appliances</li> <li>D) Continuous positive airway pressure (CPAP)</li> <li>E) Uvulopalatal surgery</li> </ul>	Obstructive sleep apnea. 07-080. Continuous positive airway pressure (CPAP) is the most effective treatment for obstructive sleep apnea in adults. Weight reduction is certainly beneficial in obese patients, but may not significantly decrease apneic episodes. ANS=D. Results with devices that move the tongue or mandible forward are variable and inconsistent. While modafinil has an indication for treating sleep apnea, its efficacy is inconsistent. Uvulopalatal surgery often reduces snoring but may not reduce the frequency of apneic episodes during sleep.
08-198. Rep+Adm. Patients with obstructive sleep apnea have an increased risk for         A) chronic renal failure         B) hypertension         C) hypokalemia         D) hypothyroidism         E) sepsis         Copyrighted Material. ITE Personal Notes. Not for Sale.	Obstructive sleep apnea. <b>08-198.</b> hypopnea syndrome is defined as the presence of at least five obstructive events per hour with associated daytime sleepiness. <b>ANS=B.</b> It is present in 2%–4% of the population. The prevalence in men is almost three times that seen in premenopausal women and twice that of postmenopausal women. Other factors associated with an increased prevalence are obesity, older age, and systemic hypertension.

Mario's ITE database V2010.007 <b>09-085.</b> +Res+Adm. The most common presenting symptom of obstructive sleep	Document copy for the sole personal use of Dr. Mario Alberto Jimenez Obstructive sleep apnea. <b>09-085. ANS=A.</b> The most common presenting symptom
apnea is A) excessive daytime sleepiness B) snoring C) morning headache D) gastroesophageal reflux E) enuresis	of obstructive sleep apnea is excessive daytime sleepiness (SOR A). Other symptoms include snoring, unrefreshing or restless sleep, witnessed apneas and nocturnal choking, morning headache, nocturia or enuresis, gastroesophageal
	reflux, and reduced libido.
<b>09-132.</b> +Res+Adm. A 55-year-old obese male with hypertension and daytime somnolence is found to have severe obstructive sleep apnea, with an apnea- hypopnea index of 32 on an overnight polysomnogram. Which one of the following is considered to be first-line therapy for this patient's condition? A) Continuous positive airway pressure (CPAP) B) An oral dental appliance C) Uvulopalatopharyngoplasty D) Sleep positioning therapy E) Tracheostomy	Obstructive sleep apnea. 09-132. ANS=A. Patients with severe sleep apnea (apnea-hypopnea index >29) and concomitant cardiovascular disease benefit the most from treatment for obstructive sleep apnea. Because it is relatively easy to implement and has proven efficacy, continuous positive airway pressure (CPAP) is considered first-line therapy for severe apnea.
<b>09-208.</b> +Ref+Cfp.A 19-year-old college freshman consults you at the request of her cross-country coach because she has not had a period in 2 of the last 3 months. She notes that her current training regimen is much more intense than in high school last year. She has an appropriate body image and denies caloric restriction. A pregnancy test at the student health center was negative. On examination she is lean and highly trained. Her examination is otherwise normal. Which one of the following would be the most appropriate recommendation for this patient? A) Estrogen supplementation B) Cyclic oral contraceptive pills C) Increased caloric intake D) Bisphosphonate therapy E) Discontinuation of elite-level athletics	Oligomenorrhea. <b>09-208.</b> Exercise-related. <b>ANS=C.</b> This patient has exercise- related oligomenorrhea, but does not have the eating disorder that characterizes the female athlete triad. Menstrual problems in athletes do correlate with bone density loss and impaired recovery from exercise. Additionally, menstrual irregularity of varying severity is extremely common in female distance runners, perhaps affecting as many as 60%. Hormonal manipulation has not been shown to affect bone density, though it may produce withdrawal bleeding. Bisphosphonate therapy has been shown to be ineffective, and is not recommended in women of child-bearing age. The main issue in well-nourished female athletes seems to be that energy intake is not increased to match energy expenditures at high levels of training. Unlike those with the female athlete triad, there is little evidence that athletes without eating disorders suffer substantial harm from exercise-induced menstrual problems. Ending an athletic career for this reason alone is not justified.
<b>07-095.</b> +Car+Adm. A mildly hypertensive 54-year-old male with type 2 diabetes asks about the benefit of adding fish oil capsules to his daily medication regimen of atorvastatin (Lipitor), metformin (Glucophage), and aspirin. You advise that fish oil supplements have been shown to A) increase the risk of rhabdomyolysis B) lower triglycerides C) decrease cardiovascular risks in the general population D) have antiarrhythmic properties E) improve glycemic control	Omega-3. 07-095. Omega-3 polyunsaturated fatty acids found in fish oil have been shown to lower plasma triglycerides and reduce the risk of stroke after a myocardial infarction. ANS=B. Unlike niacin and gemfibrozil, they do not increase the risk of rhabdomyolysis in statin patients. However, they may worsen glycemic control in diabetics and have a proarrhythmic effect in coronary artery disease patients. There is no evidence that fish oil supplements prevent coronary disease in the general population.
<b>08-223.</b> +Car+Adm. Of the following dietary factors recommended for the	Omega-3. 08-223. Omega-3 fats contribute to the production of eicosapentaenoic
prevention and treatment of cardiovascular disease, which one has been shown to decrease the rate of sudden death?	acid (EPA) and docosahexaenoic acid (DHA), which inhibit the inflammatory immune response and platelet aggregation, are mild vasodilators, and may have
A) Increased intake of plant protein	antiarrhythmic properties. ANS=B. <u>The American Heart Association guidelines</u>
<ul><li>B) Increased intake of omega-3 fats</li><li>C) Increased intake of dietary fiber and whole grains</li><li>D) Increased intake of monounsaturated oils</li><li>E) Moderate alcohol consumption (1 or 2 standard drinks per day)</li></ul>	state that omega-3 supplements may be recommended to patients with preexisting disease, a high risk of disease, or high triglyceride levels, as well as to patients who do not like or are allergic to fish. The Italian GISSI study found that the use of 850 mg of EPA and DHA daily resulted in <u>decreased rates</u> of mortality, nonfatal myocardial infarction, and stroke, with particular
	decreases in the rate of sudden death.
<ul> <li>09-103. +Int+Adm. A 69-year-old female sees you for an annual examination. She asks you to look at her toes, and you note a fungal infection in five toenails. She says the condition is painful and limits her ability to complete her morning walks. She asks for treatment that will allow her to resume her daily walks as soon as possible. Her only other medical problem is allergic rhinitis which is well controlled. Which one of the following would be the most appropriate treatment for this patient? A) Oral griseofulvin ultramicrosize (Gris-PEG) daily for 12 weeks</li> <li>B) Oral terbinafine (Lamisil) daily for 12 weeks</li> <li>C) Topical terbinafine (Lamisil AT) daily for 12 weeks</li> <li>E) Topical ciclopirox (Penlac Nail Lacquer) daily for 12 weeks</li> </ul>	Onychomycosis. <b>09-103.</b> Fungal infection toenail. <b>ANS=B.</b> Continuous therapy with oral terbinafine for 12 weeks has the highest cure rate and best long-term resolution rate of the therapies listed. Other agents and pulsed dosing regimens have lower cure rates. Topical creams are not appropriate for onychomycosis because the infection resides in the cell of the toenail. Antifungal nail lacquers have a lower cure rate than systemic therapy and should be used only when oral agents would not be safe. Toenail removal is reserved for patients with an isolated infected nail or in cases involving a dermatophytoma.
<b>08-222.</b> +Int+Cca. A 4-year-old white male is brought to your office in late	Oral ulcerations. <b>08-222.</b> Hand, foot, and mouth disease is a <b>mild infection</b>
August. His mother tells you that over the past few days he has developed a rash on his hands and "sores" in his mouth. On examination you note a vesicular exanthem on his hands, with lesions ranging from 3 to 6 mm in diameter. The oral lesions are shallow, whitish, 4- to 8-mm ulcerations distributed randomly over the hard palate, buccal mucosa, gingiva, tongue, lips, and pharynx. Except for a temperature of 37.4°C (99.3°F), the remainder of the examination is normal. The most likely diagnosis is A) herpangina B) hand, foot, and mouth disease C) aphthous stomatitis D) herpetic gingivostomatitis E) streptococcal pharyngitis	occurring in young children, and is caused by coxsackievirus A16, or occasionally by other strains of coxsackie- or enterovirus. ANS=B. In addition to the oral lesions, vesicular lesions may occur on the feet and nonvesicular lesions may occur on the buttocks. A low-grade fever may also develop. Herpangina is also caused by coxsackieviruses, but it is a more severe illness characterized by severe sore throat and vesiculo-ulcerative lesions limited to the tonsillar pillars, soft palate, and uvula, and occasionally the posterior oropharynx. Temperatures can range to as high as 41°C (106°F). The etiology of aphthous stomatitis is multifactorial, and it may be due to a number of conditions. Systemic signs, such as fever, are generally absent. Lesions are randomly distributed. Herpetic gingivostomatitis also causes randomly distributed oral ulcers, but it is a more severe illness, regularly accompanied by a higher fever, and is extremely painful. Streptococcal pharyngitis is rarely accompanied by ulceration except in agranulocytic patients.
<b>09-060.</b> +Ref+Cfp. A 27-year-old Korean female consults you regarding several painful ulcers she has developed in the vaginal area. Your examination reveals multiple 0.5-cm to 1.5-cm oval ulcers with sharply defined borders and a yellowish-white membrane. She denies recent sexual activity. Except for recurring	Oral ulcerations. <b>09-060.</b> Behçet's syndrome vs. Reiter's. <b>ANS=B</b> . The original description of <b>Behçet's syndrome</b> included recurring genital and oral <b>ulcerations and relapsing uveitis</b> . It is more common in Japan, Korea, and the <b>Eastern Mediterranean area, and affects primarily young adults</b> . The cause is
jene men white memorane. One demos recent sexual activity. Except for recurring	- and an and an and an and an and an and an

## Mario's ITE database V2010.007

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
aphthous ulcers of her mouth, her past history is unremarkable. You obtain blood for a CBC and serology. A Tzanck smear and culture of her ulcer is negative for herpes simplex virus. Two days later she returns to discuss her laboratory findings. She draws your attention to a pustule with an erythematous margin at the site where the venipuncture was done. At this time the most likely diagnosis is A) Reiter's syndrome B) Behçet's syndrome C) syphilis D) mucocutaneous lymph node syndrome (Kawasaki disease) E) AIDS	unknown. Two-thirds of patients will develop ocular involvement that may progress to blindness. Patients may develop arthritis, vasculitis, intestinal manifestations, or neurologic manifestations. This disease is also associated with cutaneous hypersensitivity; 60%–70% of patients will develop a sterile pustule with an erythematous margin within 48 hours of an aseptic needle prick. <u>Reiter's syndrome (the association of urethritis, iridocyclitis-</u> inflammation of both iris and ciliary body-, mucocutaneous lesions, and arthritis, sometimes with diarrhea; one or more of these conditions may recur at intervals of months or years, but the arthritis may be persistent) is not associated with genital ulcers. The ulcers of syphilis are characteristically painless.
Ciliary body Retina	Mucocutaneous lymph node syndrome (Kawasaki disease) primarily affects children under 6 years of age. While AIDS causes distinctive skin lesions, genital ulcers are not a common manifestation of this disease. <u>http://www.uveitis.org/patient/glossary/t_z.html</u> Uveitis is inflammation inside the eye, specifically affecting one or more of the
Pupil Entrained artery & vein	three parts of the eye that make up the uvea: the iris (the colored part of the eye), the ciliary body (behind the iris, responsible for manufacturing the fluid inside the eye) and the choroid (the vascular lining tissue underneath the retina). The structures of the uvea, marked here in red, are collectively known as the uveal tract. Uveitis is a serious ocular condition. It is the third leading cause of blindness worldwide, accounting in the United States for 10-15% of all blindness. Untreated or under-treated uveitis, or repeated episodes of inflammation within the eye, can lead to scarring and blinding consequences. Uveitis is a treatable condition.
Iridocyclitis is a term used to denote inflammation in two parts ofthe uveal tract of the eye; the iris and the ciliary body. It derives its name from combining iritis (inflammation of the iris) and cyclitis (inflammation of the ciliary body). Iridocyclitis may also be referred to as anterior uveitis, or a form of intermediate uveitis, depending upon the classification system employed by the physician.Chronic, nongranulomatous Iridocyclitis is an important complication	
of juvenile rheumatoid arthritis. <b>10-022.</b> +Res+Cca.? A 4-year-old white male is brought to your office because he	Oral ulcerations. <b>10-022.</b> Herpangina is a febrile disease caused by
<ul> <li>has had a low-grade fever and decreased oral intake over the past few days. On examination you note shallow oral ulcerations confined to the posterior pharynx. Which one of the following is the most likely diagnosis?</li> <li>A) Herpangina</li> <li>B) Herpes</li> <li>C) Mononucleosis</li> <li>D) Roseola infantum</li> <li>E) Rote lub</li> </ul>	coxsackieviruses and echoviruses. Vesicles and subsequent ulcers develop in the posterior pharyngeal area (SOR C). <b>ANS=A.</b> Herpes infection causes a gingivostomatitis that involves the anterior mouth. Mononucleosis may be associated with petechiae of the soft palate, but does not usually cause pharyngeal lesions. The exanthem in roseola usually coincides with defervescence. Mucosal involvement is not noted. Rubella may cause an enanthem of pinpoint petechiae involving the soft palate (Forschheimer spots), but not the pharynx.
E) Rubella <b>07-008.</b> +Mus+Adm. Which one of the following is characteristic of osteoarthritis of the knee? A) Greater frequency in men than in women B) Increased pain with rest C) A direct correlation between radiographic changes and pain severity D) Reduction of pain with repair of associated meniscal tears E) Reduction of pain with muscle strengthening	Osteoarthritis of the knee. <b>07-008.</b> Osteoarthritis of the knee is more common in women than in men. <b>ANS=E.</b> Rest improves the pain of osteoarthritis, and increasing muscle strength improves joint stability and reduces pain. Meniscal tears are extremely common in advanced osteoarthritis, but repairing them fails to improve the course of the disease. Radiographic changes correlate poorly with pain severity in osteoarthritis.
<ul> <li>08-071. +Mus+Adm. A 55-year-old African-American male with osteoarthritis of the knees asks for advice on improving the function of his knees and controlling arthritis pain. Which one of the following would be appropriate advice?</li> <li>A) Topical capsaicin (Zostrix) applied twice daily will improve both pain and function</li> <li>B) Glucosamine will improve both pain and function</li> <li>C) A therapeutic exercise program will improve both pain and function</li> <li>D) An intra-articular corticosteroid injection will provide at least 6 months of pain relief</li> <li>E) NSAIDs will slow the progression of the disease</li> </ul>	Osteoarthritis of the knee. <b>08-071.</b> A therapeutic exercise program will reduce both pain and disability in patients with osteoarthritis of the knee (SOR A). <b>ANS=C.</b> There is no evidence to support the use of capsaicin cream, but NSAIDs will reduce pain and there are proven therapies that will improve function of the patient's knee. While intra-articular corticosteroids are effective in relieving pain in the short term (up to 4 weeks), there is no evidence for long-term efficacy. There is not good evidence to support the use of glucosamine for treating osteoarthritis of the knee. One systematic review found it no more effective than placebo.
<b>09-029.</b> +Mus+Adm. Which one of the following dietary supplements has the best evidence of efficacy in the treatment of osteoarthritis of the knee? A) Methylsulfonylmethane (MSM) B) Glucosamine sulfate C) <i>Harpagophytum procumbens</i> (devil's claw) D) <i>Curcuma longa</i> (turmeric) E) <i>Zingiber officinale</i> (ginger)	Osteoarthritis of the knee. <b>09-029.</b> Glucosamine sulfate may be used to reduce symptoms and possibly slow disease progression in patients with osteoarthritis of the knee (SOR B). Methylsulfonylmethane, devil's claw, turmeric, and ginger are not recommended because of insufficient evidence of their effectiveness.
<ul> <li>10-036. +Mus+Adm.* A 62-year-old diabetic with stage 2 renal dysfunction is evaluated for knee pain that has mildly interfered with his usual activities over the past 3 months. On examination he is mildly tender over the medial joint line. A knee radiograph shows moderate medial joint space narrowing. In addition to low-impact exercise, which one of the following would you recommend initially?</li> <li>A) Intra-articular hyaluronic acid</li> <li>B) Intra-articular corticosteroids</li> <li>C) Celecoxib (Celebrex)</li> <li>D) Naproxen</li> </ul>	Osteoarthritis of the knee. <b>10-036.</b> Intra-articular injections should not be considered first-line treatment for symptomatic osteoarthritis of the knee. They are recommended for short-term pain control, with the evidence for hyaluronic acid being somewhat weak. Renal dysfunction is a contraindication to the use of NSAIDs. Acetaminophen is the first-line treatment in this case. <b>ANS=E.</b>
E) Acetaminophen 07-185. +Mus+Cel. A hospitalized 75-year-old white female requests treatment	Osteoarthritis. 07-185. ANS=A. The main factor limiting the use of NSAIDs is
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 103 of 170	Ŭ

Mario's ITE database V2010.007	Decument easy for the cole personal use of Dr. Marie Alberta Limenza
<ul> <li>Mario's ITE database V2010.007</li> <li>for joint pain from osteoarthritis. She currently takes aspirin, 81 mg daily, and has already tried maximum doses of acetaminophen and over-the-counter topical medications without relief. She has no history of peptic ulcer disease, gastroesophageal reflux disease, or dyspepsia. You review with her the benefits and risks of NSAIDs. Which one of the following is true regarding the potential for gastrointestinal (GI) complications?</li> <li>A) NSAIDs can increase the risk of GI problems distal to the duodenum, as well as proximal to the duodenum</li> <li>B) Most individuals who develop gastric ulcers while using NSAIDs have GI symptoms</li> <li>C) The main mechanism by which NSAIDs induce GI complications is through a direct physical irritating effect of the pill on the gastric mucosa as it is absorbed</li> <li>D) Low-dose enteric-coated aspirin (81 mg daily) does not increase the risk of GI complications if other NSAIDs are not used concomitantly</li> <li>E) Most individuals who develop gastric ulcers while using NSAIDs have a positive test for <i>Helicobacter pylori</i></li> <li><b>07-195</b>. +Mus+Cel. A 65-year-old female presents with a complaint of slowly increasing discomfort in her knees of 3 years' duration. An examination and radiograph are consistent with noninflammatory osteoarthritis. She says that the pain is well-controlled with acetaminophen, but she wants to know what can be done to prevent further damage to the joint. You recommend</li> <li>A) referral to a rheumatologist for disease-modifying agents such as methotrexate B) hyaluranon injections to preserve cartilage</li> <li>C) corticosteroid injections</li> <li>D) symptomatic measures only</li> </ul>	Document copy for the sole personal use of Dr. Mario Alberto Jimenez gastrointestinal (GI) toxicity. Endoscopic studies have shown that patients who regularly take NSAIDs have an ulcer prevalence of 15%–30%. NSAIDs also may cause an increase in clinical events beyond the duodenum. In one study, 13% of GI hospitalizations in patients with rheumatoid arthritis taking NSAIDs were for lower GI events and 32% of GI hospitalizations in patients with osteoarthritis were for lower GI events. Most NSAID users with GI complications have no antecedent symptoms. Any dose of aspirin has the potential to cause upper GI events, including enteric-coated or buffered aspirin. The use of enteric-coated or buffered aspirin does not decrease the risk of major upper GI bleeding compared with plain aspirin at dosages of □325 mg daily. The primary mechanism by which aspirin and other NSAIDs induce GI complications is systemic rather than topical. The weight of current evidence does not suggest that <i>Helicobacter pylori</i> infection potentiates the risk of ulcer formation in NSAID users. Some data even suggests that <i>H. pylori</i> may protect against gastric ulcer disease. Certainly, both NSAID use and <i>H. pylori</i> are independent risk factors for ulcer disease. <i>H. pylori</i> may potentiate the effect of low-dose aspirin with respect to ulcer bleeding. Osteoarthritis, 07-195. Osteoarthritis is a common finding in older people; some studies show that 25% of patients over age 65 have osteoarthritic changes. <b>ANS=D.</b> Unfortunately, <u>no pharmacologic treatments have been found to</u> <u>prevent the progression of joint destruction</u> . Acetaminophen is the first choice for joint pain in someone with noninflammatory osteoarthritis. <u>NSAIDs</u> provide better pain relief but can cause renal damage, fluid retention, and GI bleeding, and are therefore reserved as a second-line treatment. Narcotics usually are reserved for short-term use during flares of arthritis. <u>Studies show</u> that injections of corticosteroids or hyaluranons improve
<b>08-054.</b> +Mus+Cel. A 75-year-old white female presents with severe pain of the carpometacarpal joint at the base of her thumb. Examination of her hands also reveals hypertrophic changes of the distal interphalangeal and proximal interphalangeal joints of her fingers. These findings are most consistent with A) rheumatoid arthritis B) gout	agents, such as methotrexate, can help inflammatory arthritic joints, as in psoriatic arthritis and rheumatoid arthritis, but have not been shown to be of benefit in osteoarthritis. Osteoarthritis. 08-054. Osteoarthritis causes changes predominantly in the proximal interphalangeal (PIP) and distal interphalangeal (DIP) joints of the hands, and the carpometacarpal joints of the thumbs. ANS=E. While rheumatoid arthritis commonly causes subluxations in the metacarpophalangeal joints, this patient's subluxation is most likely due to osteoarthritis. The other choices are less likely to cause this problem.
C) systemic lupus erythematosus D) scleroderma E) osteoarthritis	
<ul> <li>08-197. +Mus+Adm. Which one of the following is a risk factor for osteoarthritis of the hip?</li> <li>A) Low bone mass</li> <li>B) Young age</li> <li>C) Participation in swimming</li> <li>D) Hyperthyroidism</li> <li>E) Obesity</li> </ul>	Osteoarthritis. <b>08-197. H</b> ip. <b>ANS=E.</b> Risk factors for osteoarthritis of the hip include obesity, high bone mass, old age, participation in weight-bearing sports, and hypothyroidism.
<ul> <li>Drotestry</li> <li>07-060. +Mus+Cel. A 68-year-old white female has a bone mineral density that is 2.7 standard deviations below the reference mean for healthy, young white women. You prescribe alendronate (Fosamax), 70 mg orally once a week, and counsel the patient that the medication should be taken A) on an empty stomach B) at bedtime C) with her other medications D) with no more than 4 oz of water</li> <li>07-216. +Mus+Cel. A 73-year-old female who is a patient in the skilled-care wing of an extended-care facility is nearly ready for discharge. Her extended rehabilitation stay was a result of surgery for a hip fracture, so she asks what she can do to prevent further fractures. A dual-energy x-ray absorptiometry (DEXA) scan reveals her T score to be -1.4 in both the hip and the spine. Which one of the following statements is true regarding treatment of this patient's condition?</li> <li>A) No treatment is indicated</li> <li>B) Raloxifene (Evista) can help prevent further hip fractures</li> <li>C) Calcitonin is the most effective drug available for the treatment of osteoporosis D) Bisphosphonates can reduce fracture risk even if bone density is not substantially increased</li> </ul>	Osteoporosis. 07-060. Alendronate. ANS=A. Absorption of alendronate can be reduced by food and certain minerals. It should be taken with 6–8 oz of water at least 30 minutes before the first food, drink (other than water), or medication of the day. Furthermore, because of an increased risk of gastroesophageal irritation, the patient should remain upright for at least 30 minutes after taking alendronate. Osteoporosis. 07-216. ANS=D. Anyone with established disease, such as osteoporotic hip fracture, is a candidate for osteoporosis treatment, regardless of their T score. Raloxifene is effective for prevention of vertebral fractures in patients with osteoporosis, but not for other fractures. Other agents are more effective than calcitonin for the treatment of osteoporosis. Increases in bone mineral density during treatment with bisphosphonates contribute only a small part to fracture prevention. Epocrates: Raloxifene: estrogen receptor modulator: selectively binds to estrogen receptors, inhibiting bone resorption and turnover. Subclass: Hormonal Oncologics 6: Other.
substantially increased         08-093. +Mus+Adm. Osteoporotic bone loss can be caused or accelerated by prolonged use of which one of the following medications?         A) Hydrochlorothiazide         B) Phenytoin         C) Raloxifene (Evista)         D) Diazepam (Valium)         E) Fluoxetine (Prozac)	Osteoporosis. <b>08-093. ANS=B.</b> Secondary osteoporosis can result from a variety of endocrine, nutritional, or genetic disorders, as well as from prolonged use of certain medications. Anticonvulsants such as phenytoin increase the hepatic metabolism of vitamin D, thereby reducing intestinal calcium absorption. Other medications that adversely affect bone mineral density include glucocorticoids, cyclosporine, phenobarbital, and heparin. Thiazide diuretics reduce urinary calcium loss and are believed to preserve bone density with long-term use. Benzodiazepines and SSRIs have not been associated with increases in bone loss or in hip fractures. <b>Raloxifene, a selective estrogen receptor modulator, is indicated for the prevention and treatment of osteoporosis in postmenopausal women.</b>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<b>08-171.</b> +Mus+Adm. A 70-year-old female consults you about osteoporosis treatment. Two years ago her T score was –2.6, and she began taking risedronate	Osteoporosis. <b>08-171.</b> treatment. <b>ANS=A.</b> There is not a linear correlation between bone mineral density and fracture risk. Bone architecture may be
(Actonel), 35 mg/week. Her BMI is 24 kg/m2, she takes appropriate doses of calcium and vitamin D, and she takes walks almost every day. Her current T score is –2.5, and she is concerned about the minimal change in spite of therapy. She	changed by bisphosphonate therapy, which may result in a decreased fracture risk. This patient has not had a fracture and is on adequate medical therapy that should be continued.
has never had a fracture, but asks if more could be done to reduce her fracture risk. Which one of the following would be the most appropriate recommendation?	
A) Continue current treatment	
B) Stop risedronate and start alendronate (Fosamax) C) Stop risedronate and start teriparatide (Forteo)	
D) Add raloxifene (Evista) E) Order a bone biopsy to evaluate bone architecture	
<ul> <li>08-231. +End+Adm. In addition to calcium and vitamin D supplementation, patients who are beginning long-term treatment with prednisone (≥3 months at a dosage ≥5 mg/day) should also receive</li> <li>A) bisphosphonate therapy</li> <li>B) calcitonin</li> <li>C) estrogen replacement therapy</li> <li>D) recombinant human parathyroid hormone</li> <li>E) raloxifene (Evista)</li> </ul>	Osteoporosis. <b>08-231.</b> glucocorticoid-induced. The American College of Rheumatology recommends that patients who are beginning long-term treatment with prednisone ( $\geq$ 3 months at a dosage $\geq$ 5 mg/day), or an equivalent, receive bisphosphonate therapy in addition to calcium and vitamin D supplementation, regardless of their T score. <b>ANS=A.</b> The other treatments are not recommended for prevention of glucocorticoid-induced osteoporosis.
<b>09-034.</b> +Mus+Adm. In which one of the following patients can a diagnosis of osteoporosis be made? A) A 58-year-old female who fractured her wrist when she	Osteoporosis. 09-034. Defined as a fragility or low-impact fracture, or as a spine or hip bone mineral density (BMD) ≥2.5 standard deviations below the
slipped and fell on her outstretched hand onto a carpeted floor B) A 62-year-old female who sustained a pelvic fracture in a motor vehicle accident C) A 52-year-	mean for young, healthy women. A <u>fracture of the radius caused by a fall</u> from a standing position would be considered a low-impact fracture. A
old female with a T-score of $+2.5$ on bone mineral density (BMD) testing of her hip D) A 67-year-old female with a T-score of $-1.7$ on BMD testing of her spine	fracture resulting from a motor vehicle accident would be considered a high- impact fracture, which is not diagnostic for osteoporosis. <u>A T-score of -2.5 or</u>
E) A 72-year-old female with a T-score of -2.0 on BMD testing of her spine	less is considered osteoporosis, a T-score between –1.0 and –2.5 is considered osteopenia, and a T-score of –1.0 or higher is considered normal.
<b>09-138.</b> +Mus+Adm. Secondary causes of osteoporosis in males include which one of the following? A) Weekly consumption of 3–6 alcoholic drinks B) Male hormone supplementation C) Vitamin D excess	Osteoporosis. <b>09-138.</b> in men. <b>ANS=E.</b> Corticosteroids are among the common secondary causes of osteoporosis in men. Other causes include excessive alcohol use, hypogonadism, vitamin D deficiency, and decreased body mass index.
D) Obesity E) Corticosteroid use 09-172. +Mus+Adm. Which one of the following has the best evidence of	Osteoporosis. 09-172. ANS=D. Of the options listed, treatment with
effectiveness for preventing fractures in postmenopausal women with osteoporosis?	bisphosphonates to prevent osteoporotic hip and vertebral fractures is the only one supported by consistent patient-oriented, high-quality clinical evidence (SOR A).
A) Home-hazard assessment	While each of the other recommendations has merit, the overall level of evidence
B) Daily supplementation with vitamin D C) Treatment with calcitonin	for effectiveness is less compelling for these treatments than for treatment with bisphosphonates (SOR B).
D) Treatment with alendronate (Fosamax) 09-212. +Mus+Adm. The most effective daily doses of vitamin D and calcium for	Osteoporosis. 09-212. Hip fracture prevention. ANS=D. The most effective daily
hip fracture prevention in postmenopausal women are A) 800 IU vitamin D and 500 mg calcium B) 400 IU vitamin D and 500 mg calcium C) 400 IU vitamin D and 1000 mg calcium D) 800 IU vitamin D and 1200 mg calcium	dose of vitamin D for hip fracture prevention in postmenopausal women is 800 IU, and the recommended daily dose of calcium is 1200 mg.
<ul> <li>10-231. +Mus+Adm. A 60-year-old Chinese female asks you about being tested for osteoporosis. She is postmenopausal and has never used hormone therapy. She does not consume dairy products because she has lactose intolerance. She is on no medications, is otherwise healthy, and has no history of falls or fractures. Her mother had osteoporosis and vertebral compression fractures. Her BMI is 20 kg/m2. Which one of the following tests would be best to determine whether this patient has osteoporosis?</li> <li>A) A central DXA scan of the lumbar spine and hips</li> <li>B) A forearm DXA scan</li> <li>C) Quantitative CT of the lumbar spine</li> </ul>	Osteoporosis. <b>10-231.</b> Risk factors. <b>ANS=A.</b> This patient has several risk factors for osteoporosis: Asian ethnicity, low body weight, positive family history, postmenopausal status with no history of hormone replacement, and low calcium intake. The best diagnostic test for osteoporosis is a central DXA scan of the hip, femoral neck, and lumbar spine. Quantitative CT is accurate, but cost and radiation exposure are issues. Peripheral DXA and calcaneal sonography results do not correlate well with central DXA. Measurement of biochemical markers is not recommended for the diagnosis of osteoporosis.
D) Quantitative calcaneal ultrasonography E) Measurement of biochemical markers of bone turnover in the urine	
<b>09-221.</b> +Sen+Cca. On examination a 2-year-old child is found to have otalgia, a temperature of 39.0°C (102.2°F), and a bulging, red tympanic membrane. She weighs 17 kg (35 lb). Which one of the following would be the appropriate dosage of amoxicillin (Amoxil) for this child? A) 375 mg/day B) 500 mg/day C) 750 mg/day D) 1000 mg/day E) 1500 mg/day	Otitis media. <b>09-221.</b> Acute. <b>ANS=E.</b> For treating acute otitis media in this patient, the current recommended dosage of amoxicillin is 80–90 mg/kg/day.
<b>10-089.</b> +Sen+Cca.>L?* Which one of the following is the most common cause of recurrent and persistent acute otitis media in children?	Otitis media. <b>10-089.</b> Acute. ANS=C. Streptococcus pneumoniae, Haemophilus influenzae, and Moraxella catarrhalis are the most common bacterial isolates
<ul> <li>A) Haemophilus influenzae</li> <li>B) Moraxella catarrhalis</li> </ul>	from the middle ear fluid of children with acute otitis media. <u>Penicillin-resistant</u> <i>S. pneumoniae</i> is the most common cause of recurrent and persistent acute
<ul> <li>D) Morazena calarmans</li> <li>C) Penicillin-resistant Streptococcus pneumoniae</li> <li>D) Pseudomonas aeruginosa</li> </ul>	otitis media.
E) Staphylococcus aureus	
<b>10-123.</b> +Sen+Cca. A 20-month-old male presents with a history of a fever up to 38.5°C (101.3°F), pulling at both ears, drainage from his right ear, and a poor appetite following several days of nasal congestion. This is his first episode of acute illness, and he has no history of drug allergies. The fever is confirmed on examination and the child is found to be fussy but can be distracted. He is eating adequately and shows no signs of dehydration. Positive findings include mild nasal congestion, a purulent discharge from the right auditory canal, and a red, bulging, immobile tympanic membrane in the left auditory canal. Which one of	Otitis media. <b>10-123</b> . Presumed tympanic membrane perforation <b>ANS=C</b> . This patient has acute bilateral otitis media, with presumed tympanic membrane perforation, and qualifies by any criterion for treatment with antibiotics. Amoxicillin, 80–90 mg/kg/day, should be the first-line antibiotic for most children with acute otitis media (SOR B). The other medications listed are either ineffective because of resistance (e.g., penicillin), are second-line treatments (e.g., amoxicillin/clavulanate), or should be used in patients with a penicillin allergy or in other special situations.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 105 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
the following would be first-line treatment for this patient?	
A) Ceftriaxone (Rocephin) B) Amoxicillin/clavulanate (Augmentin)	
C) Amoxicillin	
D) Azithromycin (Zithromax) E) Penicillin VK	
07-156. +Pbc+Euc. Activated charcoal is ineffective for the treatment of acute	Overdose. 07-156. charcoal. ANS=C. Activated charcoal is widely used for
ingestions of which one of the following?	gastrointestinal decontamination following drug overdose. There is no evidence to
<ul><li>A) Acetaminophen</li><li>B) Enteric-coated aspirin</li></ul>	support or exclude its use more than 1 hour after the ingestion, however, and potential complications such as aspiration should be weighed against benefits. It is
C) Ferrous sulfate	given orally or via nasogastric tube at a recommended dose of 1 g/kg body weight.
D) Amitriptyline	Charcoal absorbs >90% of most toxins in vitro if the amount used is ten times the
E) Digoxin	amount of the toxin. The charcoal-toxin complex is later evacuated in the stool.
	However, charged (ionized) chemicals and dissociated salts such as iron, lithium, fluoride, cyanide, mineral acids, alkalis, and some other inorganic
	<u>compounds are poorly absorbed by charcoal</u> . Even multiple-dose therapy is not
	effective in the treatment of poisoning due to these agents. For toxic iron
	ingestions useful treatments include gastric evacuation with ipecac or lavage,
	whole bowel irrigation with polyethylene glycol, and chelation with
10 162 Non Euro N * A 2 year old male is brought to the amarganey	deferoxamine.
<b>10-163.</b> +Non+Euc.>L* A 3-year-old male is brought to the emergency department by his parents, who report seeing him swallow a handful of adult	<b>Overdose. 10-163.</b> charcoal. <b>ANS=B.</b> A single dose of <b>activated charcoal is the</b> <b>decontamination treatment of choice for most medication ingestions.</b> It
ibuprofen tablets 20 minutes ago. Which one of the following would be the most	should be used within 1 hour of ingestion of a potentially toxic amount of
appropriate initial management of this patient?	medication (SOR C). Gastric lavage, cathartics, or whole bowel irrigation is best
A) Oral ipecac	for ingestion of medications that are poorly absorbed by activated charcoal (iron,
B) Oral activated charcoal C) Gastric lavage	lithium) or medications in sustained-release or enteric-coated formulations. Ipecac has no role in home use or in the health care setting (SOR C).
D) Whole-bowel irrigation	has no role in nome use of in the hearth care setting (SOR C).
E) Close observation	
<b>09-042.</b> +Gas+Cel. An 86-year-old mildly demented male nursing-home resident	Overflow incontinence (rectal). 09-042. Overflow incontinence (rectal) is
rarely leaves the facility. He has frequent fecal incontinence that is disturbing to	common in the institutionalized elderly, and is often due to constipating
both him and his family. He has diet-controlled diabetes mellitus and hypertension, and a history of transurethral resection of the prostate (TURP) for	medications. Reduced storage capacity is usually seen with inflammatory bowel disease. Mild diabetes mellitus does not cause decreased rectal sensation, and
benign prostatic hypertrophy. An examination is remarkable only for an empty	puborectalis and internal sphincter weakness are uncommon in males, as they
rectum and no focal neurologic findings. Which one of the following is the most	usually result from vaginal delivery.
likely cause of this patient's fecal incontinence? A) Decreased rectal sensation	
secondary to diabetes mellitus B) Decreased rectal storage capacity C) Internal sphincter weakness D) Puborectalis weakness E) Overflow	
<b>09-198.</b> +Car+Adm. A 58-year-old male complains of leg claudication.	PAD (Peripheral arterial disease). 09-198. Peripheral arterial disease (PAD) is a
Subsequent tests reveal that he has significant bilateral peripheral arterial disease.	common malady that has several proven treatments. ANS=C. The outcomes of
His current medications include atenolol (Tenormin), 50 mg/day, and aspirin, 325	these treatments can be separated into two primary categories: reducing PAD
mg/day. His blood pressure is 128/68 mm Hg, and his pulse rate is 64 beats/min. His LDL-cholesterol level is 123 mg/dL. The addition of which one of the	symptoms and preventing death due to systemic cardiovascular events (CVEs), especially myocardial infarction. Routine exercise up to near-maximal pain on a
following could reduce this patient's symptoms? A) Epoetin alfa (Epogen) B)	regular basis has been shown to be one of the most effective treatments for
Nifedipine (Procardia) C) Simvastatin (Zocor) D) Testosterone supplementation	symptoms of PAD. Smoking cessation and aspirin are also standard
E) Warfarin (Coumadin) titrated to an INR of 2.0–3.0	recommendations, and can both prevent CVEs and slow the rate of progression of
	PAD symptoms. Statin drugs (specifically simvastatin and atorvastatin) have been shown to be beneficial for treatment of PAD symptoms and prevention of CVEs
	through the reduction of cholesterol, but they also appear to have other properties
	that help reduce leg pain in patients with PAD. Although lowering abnormally
	high blood pressure is recommended in PAD patients, only ACE inhibitors have
	been shown to reduce symptoms of PAD directly. Furthermore, the combination
	of atenolol and nifedipine has actually been shown to worsen symptoms of PAD. The addition of warfarin to aspirin has no additional benefit in either reduction of
	PAD symptoms or prevention of CVEs, but it may have a role in preventing clots
	in patients who have undergone revascularization.
<b>10-117.</b> +Mus+Adm. Which one of the following is true concerning Paget's	Paget's disease. <b>10-117.</b> Paget's disease of bone is a focal disorder of skeletal
disease of bone? A) It is a precursor of multiple myeloma	metabolism in which all elements of skeletal remodeling (resorption, formation, and mineralization) are increased. <b>ANS=B.</b> There is no known relationship
B) Both bone formation and bone resorption are increased	between Paget's disease and multiple myeloma, although most cases of sarcoma
C) The treatment of choice for symptomatic disease is a calcium channel blocker	in patients over 50 arise in pagetic bone. The preferred treatment for nearly all
D) Pagetic bone pain is difficult to relieve and resistant to medical treatment	patients with symptomatic disease is one of the newer bisphosphonates. Treatment
E) Extracellular calcium homeostasis is typically abnormal	of bone pain resulting from Paget's disease is generally very satisfactory, and in fact, relief may continue for many months or years after treatment is stopped,
	lending support for intermittent symptomatic therapy. Finally, despite the massive
	bone turnover, extracellular calcium homeostasis is almost invariably normal.
07-220. +Neu+Adm. Which one of the following would be appropriate for pain	Pain control. 07-220. In ICU. ANS=D. Hydromorphone, morphine sulfate, and
control in a critically ill patient in the intensive-care unit?	fentanyl are the three most commonly used opioid analgesics for pain control
A) Meperidine (Demerol) B) Ketorolac (Toradol)	in the intensive-care unit (ICU). The other drugs listed are considered inappropriate for analgesia in the ICU. Meperidine is not recommended
C) Butorphanol (Stadol)	because its analgesia is not superior to that of morphine. Also, its metabolite
D) Hydromorphone (Dilaudid)	normeperidine is eliminated through the kidneys and has neurotoxic effects,
E) Methadone (Dolophine)	including seizures and delirium. NSAIDs such as ketorolac are not
	recommended, because they are not superior to opiates. In addition, they cause platelet inhibition and have an antiprostaglandin effect that increases the risk of
	practice innotation and have an antiprostagrandin critici that increases the fISK 01

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	stress ulcers and renal injury. Opiate agonist-antagonists such as butorphanol may precipitate withdrawal in chronic opiate users or in ICU patients who have received opiates for a prolonged period of time. They also may reverse opiate analgesic effects. Methadone has an extended duration of activity that increases the risk of accumulation and adverse effects with repeated dosing.
<ul> <li>08-119. +Pbc+Adm. Which one of the following is true regarding the use of opiates in terminally ill patients?</li> <li>A) They are frequently addictive</li> <li>B) They are indicated for relieving dyspnea</li> <li>C) A medication "contract" is required by law</li> <li>D) Respiratory depression is the first sign of excessive dosage</li> <li>E) Gastrointestinal hypermotility is a common side effect</li> </ul>	Pain control. <b>08-119.</b> Terminally ill patients. <b>ANS=B.</b> In terminally ill patients, the most common physical symptoms are pain, fatigue, and dyspnea. Opiates are useful for controlling pain and relieving dyspnea as well. Even small doses of a weaker opiate can reduce the sensation of shortness of breath in cancer patients and in those with heart failure or chronic obstructive lung disease. Addiction is rare in terminally ill patients who are being treated with opiates for pain and/or dyspnea. A medication contract between physician and patient is not required by law and generally is not necessary in this situation, unless diversion of the medication from the patient by the caregivers is suspected. Constipation due to decreased gastrointestinal motility is a very common, if not universal, side effect. Respiratory depression is a late, not early, sign of excessive opiate dosage. Another sign of opiate excess, pinpoint pupils, occurs before respiratory depression and is therefore a useful parameter for monitoring these patients.
<b>09-037.</b> +Res+Cel. You are caring for a 70-year-old male with widespread metastatic prostate cancer. Surgery, radiation, and hormonal therapy have failed to stop the cancer, and the goal of his care is now symptom relief. He is being cared for through a local hospice. Over the past few days he has been experiencing respiratory distress. His oxygen saturation is 94% on room air and his lungs are clear to auscultation. His respiratory rate is 16/min. Which one of the following would be best at this point? A) Morphine B) Oxygen C) Albuterol (Proventil, Ventolin) D) Haloperidol	Pain control. <b>09-037.</b> Terminally ill patients. Dyspnea is a frequent and distressing symptom in terminally ill patients. In the absence of hypoxia, oxygen is not likely to be helpful. Opiates are the mainstay of symptomatic treatment. <b>Ans=A.</b>
<ul> <li>08-086. +Gas+Csp. An obviously intoxicated 50-year-old white male is brought to the emergency department after the car he was driving hit a telephone pole. He has a fracture of the femur, and is confused and uncooperative. His pulse rate is 120 beats/min, his blood pressure is 80/40 mm Hg, and his skin is clammy. Initial physical examination of his abdomen does not indicate significant intra-abdominal injury. Which one of the following would be best for determining whether laparotomy is needed?</li> <li>A) CT of the abdomen</li> <li>B) MRI of the abdomen</li> <li>C) Upright and lateral decubitus radiographs of the abdomen</li> <li>D) Contrast duodenography</li> <li>E) Peritoneal lavage</li> <li>08-162. +Gas+Euc. A 42-year-old previously healthy white female presents to your office with her third episode of abdominal pain. This episode began 2 hours ago, and the pain is improving. She describes colicky right upper quadrant and epigastric pain. On examination you note mild right upper quadrant tenderness, with otherwise unremarkable findings. Renal function tests are normal. Which one of the following would be most appropriate at this point?</li> </ul>	<ul> <li>Pain, abdominal. 08-086. Physical examination of the abdomen is often unreliable for detecting significant intra-abdominal injury, especially in the head-injured or intoxicated patient. ANS=E. In a hemodynamically unstable patient with a high-risk mechanism of injury and altered mental status, peritoneal lavage is the quickest, most reliable modality to determine whether there is a concomitant intra-abdominal injury requiring laparotomy. CT of the abdomen and contrast duodenography may complement lavage in stable patients with negative or equivocal lavage results, but in an unstable or uncooperative patient these studies are too time-consuming or require ill-advised sedation. Ultrasonography may also complement lavage in selected patients, but its usefulness is limited in the acute situation. MRI is extremely accurate for the anatomic definition of structural injury, but logistics limit its practical application in acute abdominal trauma.</li> <li>Pain, abdominal. 08-162. right upper quadrant. ANS=B. Ultrasonography of the right upper quadrant is recommended as the initial imaging study for right upper quadrant pain (SOR C). KUB films can detect kidney stones but may miss gallstones. CT also may miss gallstones, and is more invasive than ultrasonography. Abdominal CT with intravenous and oral contrast is to see the store right lower quadrant pain, and abdominal CT with intravenous and oral contrast is</li> </ul>
<ul> <li>A) KUB films</li> <li>B) Ultrasonography of the right upper quadrant</li> <li>C) Abdominal CT with intravenous contrast</li> <li>D) Abdominal CT with intravenous and oral contrast</li> <li>E) MRI of the abdomen</li> <li>09-174. +Mus+Adm. A 39-year-old female presents with lower abdominal/pelvic</li> </ul>	preferred for left lower quadrant pain. MRI is preferred for detecting tumors, and is inappropriate as the initial imaging study for right upper quadrant pain. Pain, abdominal. <b>09-174.</b> Carnett's sign. <b>ANS=B.</b> <u>Carnett's sign is the easing of</u>
pain. On examination, with the patient in a supine position, you palpate the tender area of her abdomen. When you have her raise both legs off the table while you palpate the abdomen, her pain intensifies. Which one of the following is the most likely diagnosis? A) Appendicitis B) A hematoma within the abdominal wall musculature C) Diverticulitis D) Pelvic inflammatory disease E) An ovarian cyst	the pain of abdominal palpation with tightening of the abdominal muscles. If the cause is visceral, the taut abdominal muscles could guard the source of pain from the examining hand. In contrast, intensification of pain with this maneuver points to a source of pain within the abdominal wall itself.
<ul> <li>10-029. +Psy+Cca. An 11-year-old female has been diagnosed with "functional abdominal pain" by a pediatric gastroenterologist. Her mother brings her to see you because of concerns that another diagnosis may have been overlooked despite a very thorough and completely normal evaluation for organic causes. Which one of the following would you recommend?</li> <li>A) A trial of inpatient hospital admission</li> <li>B) Increased testing and levels of referral until a true diagnosis is reached</li> <li>C) Removing the child from school and activities whenever symptoms occur</li> <li>D) Medications to eradicate symptoms</li> <li>E) Stress reduction and participation in usual activities as much as possible</li> <li>07-005. +Mus+Cca. A 15-year-old white male complains of bilateral foot pain. He</li> </ul>	Pain, abdominal. <b>10-029.</b> functional abdominal. <b>ANS=E.</b> The diagnosis of functional abdominal pain is made when no structural, infectious, inflammatory, or biochemical cause for the pain can be found. It is the most common cause of recurrent abdominal pain in children 4–16 years of age. The use of medications may be helpful in reducing (but rarely eradicating) functional symptoms, and remaining open to the possibility of a previously unrecognized organic disorder is appropriate. However, continuing to focus on organic causes, invasive tests, or physician visits can actually perpetuate a child's complaints and distress. It is estimated that approximately 30%–50% of children with functional abdominal pain will have resolution of their symptoms within 2 weeks of diagnosis. Recommendations for managing this problem include focusing on participation in normal age-appropriate activities, reducing stress and addressing emotional distress, and teaching the family to cope with the symptoms in a way that prevents secondary gain on the part of the child. Pain, ankle. 07-005. Tarsal coalition is the fusion of two or more of the tarsal
does not recall any injury, and the pain improves with rest. Examination reveals tenderness over the lateral and anterior ankle, along with a rigid flatfoot, peroneal tighypertensioness, and pain on foot inversion. The most likely diagnosis is A) tarsal coalition B) stress fracture C) plantar fasciitis D) turf toe E) foot sprain	bones. <b>ANS=A.</b> It is congenital, and 50% of the time is bilateral. It is asymptomatic until early adolescence. On clinical examination there is tenderness over the subtalar joint (lateral and anterior ankle), rigid flatfoot, limited subtalar motion, peroneal tighypertensioness, and pain on foot inversion. Treatment is conservative. A stress fracture would present with pain in the forefoot, warmth,
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 107 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<b>07-174.</b> +Mus+Adm. A 16-year-old male comes to your office after suffering an eversion injury to his ankle while being tackled in a football game 3 days ago. He was not able to bear weight after the injury and now has tenderness at the distal tibiofibular joint with no swelling. Compression of the fibula against the tibia at the mid-calf elicits pain anterior to the lateral malleolus and proximal to the ankle joint. Stabilizing the leg and rotating the foot externally elicits pain at the same location. Radiographs are negative. Which one of the following would be most appropriate at this point? A) Application of an elastic wrap to the ankle for 2 weeks B) Therapeutic ultrasound C) Stress radiographs D) A CT scan E) Long-term semirigid support	mild swelling, and point tenderness over the affected metatarsals, most commonly the second or third. Radiographs are often negative initially, but a callus is usually evident by the third week of symptoms. Plantar fasciitis presents with pain in the heel or sole of the foot and is most painful with the first step after arising from bed or prolonged sitting. It may be associated with pes planus (flat foot), but in plantar fasciitis the flat foot is flexible, not rigid. Turf toe is inflammation of the first metatarsophalangeal joint due to acute and/or repetitive hyperextension injury resulting from sudden toe-off against an unyielding surface, such as artificial turf. The patient may present acutely with a tender, red, swollen first metatarsophalangeal joint, with pain on passive extension. Others may develop a chronic condition and present with hallux rigidus. Foot sprain is a nonspecific term for an acute ligamentous injury. Pain, ankle. <b>07-174. Ankle sprains.</b> Syndesmotic (high ankle) sprains account for as many as 11% of ankle sprains. <b>Syndesmotic</b> (high ankle) sprains account for as many as 11% of ankle sprains. <b>ANS=E</b> . The mechanism of injury is dorsiflexion and/or eversion of the ankle, most commonly in contact sports. The syndesmotic structures include the anterior, posterior, and transverse tibiofibular ligaments, as well as the interosseous membrane. These injuries can cause chronic ankle instability, resulting in recurrent sprains and hypertrophic ossification. The diagnosis can be made by several tests. <b>The squeeze test can be performed by</b> <b>compressing the fibula against the tibia at mid-calf. A positive test occurs</b> <b>when this elicits pain in the region of the anterior tibiofibular ligament</b> . A <b>positive external rotation stress test causes pain at the same site. It is</b> <b>performed by stabilizing the leg and externally rotating the foot</b> . The crossed- leg test can also detect this injury. The patient places the involved ankle, which causes pain at the syndesmosis. While ankle support is often u
<ul> <li>08-005. +Mus+Adm. An 18-year-old female basketball player comes to your office the day after sustaining an inversion injury to her ankle. She says she treated the injury overnight with rest, ice, compression, and elevation. You examine her and diagnose a moderate to severe lateral ankle sprain. In addition to rehabilitative exercises, you advise</li> <li>A) a short-term cast</li> <li>B) a posterior splint that allows no flexion or extension</li> <li>C) a semi-rigid stirrup brace (Air-Stirrup)</li> <li>D) an elastic bandage</li> </ul>	Pain, ankle. <b>08-005</b> . Ankle sprains. ANS=C. <u>In acute ankle sprains, functional</u> <u>treatment with a semi-rigid brace (Aircast) or a soft lace-up brace is</u> <u>recommended over immobilization</u> . Casting or posterior splinting is no longer recommended. Elastic bandaging does not offer the same lateral and medial support. External ankle support has been shown to improve proprioception.
<ul> <li>E) no external brace or support</li> <li>08-045. +Mus+Adm. A 56-year-old African-American male has pain and tingling in the medial aspect of his ankle and the plantar aspect of his foot. He jogs 3 miles daily and has no history of any injury. The symptoms are aggravated by activity, and sometimes keep him awake at night. The only findings on examination are paresthesias when a reflex hammer is used to tap just inferior to the medial malleolus. This patient probably has</li> <li>A) a stress fracture</li> <li>B) a herniated nucleus pulposus at L5 or S1</li> <li>C) plantar fasciitis</li> <li>D) diabetic neuropathy</li> <li>E) tarsal tunnel syndrome</li> </ul>	Pain, ankle. <b>08-045.</b> Tunnel syndrome, tarsal. <b>ANS=E.</b> Entrapment of the posterior tibial nerve or its branches as the nerve courses behind the medial malleolus results in a neuritis known as tarsal tunnel syndrome. Causes of compression within the tarsal tunnel include varices of the posterior tibial vein, tenosynovitis of the flexor tendon, structural alteration of the tunnel secondary to trauma, and direct compression of the nerve. Pronation of the toot causes pain and paresthesias in the medial aspect of the ankle and heel, and sometimes the plantar surface of the foot. The usual site for a stress fracture is the shaft of the second, third, or fourth metatarsals. A herniated nucleus pulposus would produce reflex and sensory changes. Plantar fasciitis is the most common cause of heel pain in runners and often presents with pain at the beginning of the workout. The pain decreases during running only to recur afterward. Diabetic neuropathy is usually bilateral and often produces paresthesias and burning at night, with absent or decreased deep tendon reflexes.
<ul> <li>09-126. +Mus+Euc. A 41-year-old male trips on a curb while running, sustaining an inversion ankle injury. According to the Ottawa ankle rules, which one of the following would be an indication for radiographic evaluation?</li> <li>A) Tenderness at the anterior talofibular ligament</li> <li>B) Point tenderness over the cuboid</li> <li>C) Inability to take four steps either immediately after the injury or while in your office</li> <li>D) Bony tenderness at the anterior aspect of the distal tibia</li> <li>E) Point tenderness over the base of the fourth metatarsal</li> </ul>	Pain, ankle. 09-126. Ottawa ankle rules have been designed and validated to reduce unnecessary radiographs. ANS=C. Radiographs should be obtained for all patients with an acute ankle injury who meet any of the following criteria: inability to take four steps, either immediately after the injury or when being evaluated; localized tenderness of the navicular bone or the base of the fifth metatarsal; or localized tenderness at the posterior edge or tip of either malleolus.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
ANKLE RULES	ANKLE RULES
<ul> <li>a) An ankle x-ray series is only required if there is any pain in malleolar zone and any of these findings:</li> <li>a) bone tenderness at A OR</li> <li>bone tenderness at B OR</li> <li>c) bone tenderness at B OR</li> <li>c) bone tenderness at B OR</li> <li>c) bone tenderness is only required if there is any pain in midfoot zone and any of these findings:</li> <li>b) A foot x-ray series is only required if there is any pain in midfoot zone and any of these findings:</li> <li>c) bone tenderness at C OR</li> <li>c) bone tenderness at D OR</li> <li>c) bone t</li></ul>	A)Posterior tigo f lateral analolus Control of the control of the control of two or more tarsal bones. ANS=E. It occurs in mid- to late adolescence and is bilateral in 50% of those affected. Pain occurs around the ankle, and there is decreased range of motion of
foot also is observed. Which one of the following is the most likely diagnosis? A) Non-ossification of the os trigonum B) Sever's apophysitis C) Plantar fasciitis D) Navicular stress fracture E) Tarsal coalition	the hindfoot and pain on foot inversion on examination. Os trigonum results from non-ossification of cartilage. It usually is unilateral and causes palpable tenderness of the heel. Sever's apophysitis is inflammation of the calcaneal apophysis, and causes pain in the heel. Plantar fasciitis causes tenderness over the anteromedial heel. Navicular stress fractures are tender over the dorsomedial navicular.
<ul> <li>10-040. +Mus+Adm.&gt;L* A 45-year-old female presents to your office with a 1-month history of pain and swelling posterior to the medial malleolus. She does not recall any injury, but reports that the pain is worse with weight bearing and with inversion of the foot. Plantar flexion against resistance elicits pain, and the patient is unable to perform a single-leg heel raise. Which one of the following is true regarding this problem?</li> <li>A) The patient most likely has a medial ankle sprain</li> <li>B) NSAIDs will improve the long-term outcome</li> <li>C) Injecting a corticosteroid into the tendon sheath of the involved tendon is recommended</li> <li>D) A lateral heel wedge should be prescribed</li> <li>E) Immobilization in a cast boot for 3 weeks is indicated</li> </ul>	Pain, ankle. <b>10-040.</b> tendinopathy of the posterior tibial tendon. The diagnosis of tendinopathy of the posterior tibial tendon is important, in that the tendon's function is to perform plantar flexion of the foot, invert the foot, and stabilize the medial longitudinal arch. An injury can, over time, elongate the midfoot and hindfoot ligaments, causing a painful flatfoot deformity. <b>ANS=E.</b> The patient usually recalls no trauma, although the injury may occur from twisting the foot by stepping in a hole. This is most commonly seen in women over the age of 40. Without proper treatment, progressive degeneration of the tendon is often noted, and is misdiagnosed as a medial ankle sprain. With the patient standing on tiptoe, the heel should deviate in a varus alignment, but this does not occur on the involved side. A single-leg toe raise should reproduce the pain, and if the process has progressed, this maneuver indicates progression of the problem. While treatment with acetaminophen or NSAIDs provides short-term pain relief, neither affects long-term outcome. Corticosteroid injection into the synovial sheath of the posterior tibial tendon is associated with a high rate of tendon rupture and is not recommended. The best initial treatment is immobilization in a cast boot or short leg cast for 2–3 weeks.
<ul> <li>10-138. +Mus+Euc.&gt;L A patient is sent to you by his employer after falling down some steps and twisting his ankle and foot. Which one of the following would be the most appropriate reason to obtain foot or ankle radiographs?</li> <li>A) Notable swelling and discoloration over the anterior talofibular ligament</li> <li>B) A complaint of marked pain with weight bearing as he walks into the examining room</li> <li>C) Pain in the maleolar zone and bone tenderness of the posterior medial malleolus</li> <li>D) The absence of passive plantar foot flexion when the calf is squeezed (Thompson test)</li> </ul>	Pain, ankle. <b>10-138.</b> Ottawa ankle and foot rules are prospectively validated decision rules that help clinicians decrease the use of radiographs for foot and ankle injuries without increasing the rate of missed fracture. <b>ANS=C.</b> The rules apply in the case of blunt trauma, including twisting injuries, falls, and direct blows. According to these guidelines, an ankle radiograph series is required only if there is pain in the malleolar zone and bone tenderness of either the distal 6 cm of the posterior edge or the tip of either the lateral malleolus or the medial malleolus. Inability to bear weight for four steps, both immediately after the injury and in the emergency department, is also an indication for ankle radiographs. Foot radiographs are required only if there is pain in the matarsal or the navicular, or if the patient is unable to bear weight both immediately after the injury and in the emergency department. A positive Thompson sign, seen with Achilles tendon rupture, is the absence of passive plantar foot flexion when the calf is squeezed.
<ul> <li>07-127. +Mus+Adm. A 72-year-old white female is experiencing pain due to a vertebral compression fracture. Pain control with opioid analgesics and calcitonin therapy is not adequate. Which one of the following would make vertebroplasty an appropriate option?</li> <li>A) Fracture duration &lt;6 months B) Degree of vertebral collapse 80% C) Radiologic evidence of destruction of the posterior vertebral wall D) New-onset bladder dysfunction thought to have a neurologic etiology E) New-onset bilateral lower-extremity paresis</li> </ul>	Pain, back. 07-127. Vertebroplasty is a reasonable therapeutic consideration for vertebral compression fractures if pain is not adequately controlled with analgesics and conservative therapy. ANS=A Some studies indicate a <u>better</u> response with less chronic fractures. Treatment of fractures less than 6 <u>months old is acceptable</u> . More prolonged conservative therapy with an inadequate response is not appropriate. <u>Neurologic dysfunction, including</u> <u>bladder dysfunction, paralysis, and sensory deficits, is a relative</u> <u>contraindication to vertebroplasty</u> . Spinal cord compression requires other treatment, and <u>high degrees of compression (&gt;67%) are not amenable to this</u> <u>therapy</u> . Destruction of the posterior wall is a contraindication to this therapy because the injected polymethyl methacrylate should not directly contact the spinal cord. Coagulopathies and infectious processes are also

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	contraindications.
07-138. +Mus+Cca+Adm. A high-school gymnast presents to your office with a	Pain, back. 07-138. Spondylolysis. ANS=C. Complete fracture and
history of back pain for the past 3–4 weeks. She reports that symptoms are worse	spondylolisthesis with prolonged disability may occur if spondylolysis is not
with any hyperextension activity. Examination demonstrates a hyperlordotic	diagnosed early and treated appropriately. Most athletes respond to conservative
posture with mild tenderness in the lower lumbar spine. Radiographs demonstrate	management and return to full activity approximately 6 months after diagnosis.
the classic "Scotty dog with a collar" appearance of spondylolysis. Which one of	Treatment for low-grade spondylolisthesis (up to 50% slippage) is similar to
the following statements about this diagnosis is true? A) Most athletes can resume	treatment for spondylolysis. Patients should be followed with serial radiographs at
full activity in 4–6 weeks B) Spondylolisthesis >25% requires referral to a spine	6-month intervals until they reach skeletal maturity. Patients with a high-grade
surgeon C) Inadequate treatment can lead to complete fracture and	slippage (>50%) may need to be comanaged by an orthopedic or spine surgeon to
spondylolisthesis with prolonged disability D) Adolescents should be followed	guide treatment and assist in return-to-play decisions.
with serial CT every 6 months until they reach skeletal maturity	
07-150. +Mus+Adm. Adult ankylosing spondylitis	Pain, back. 07-150. Ankylosing spondylitis. ANS=D. Symptoms of ankylosing
A) commonly begins after age 45	spondylitis usually begin in late adolescence or early adulthood. Only about 5% of
B) is more common in women than in men	cases begin after age 40. Back complaints are the initial complaint in 75% of
C) is most commonly initially manifested in knees and hands	patients with adult-onset ankylosing spondylitis. This disease is three to five times
D) typically causes early morning pain and stiffness that improves with activity	more common in men than in women. Backache and stiffness tend to be present
	after periods of inactivity and tend to improve with activity.
<b>08-107.</b> +Mus+Euc. A 36-year-old male presents with pain over the lumbar	Pain, back. 08-107. low back. ANS=D. Multiple studies have demonstrated that
paraspinal muscles. He says the pain began suddenly while he was shoveling	bed rest is detrimental to recovery from low back pain. Patients should be
snow. Which one of the following is true regarding this patient's injury?	encouraged to remain as active as possible. Exercises designed specifically for the
A) Systemic corticosteroids speed recovery	treatment of low back pain have not been shown to be helpful. Neither opioids nor
B) Exercises specific to low back injuries speed recovery	trigger-point injections have shown superiority over placebo, NSAIDs, or
C) Opioids have significant advantages for symptom relief when compared with	acetaminophen in relieving acute back pain. There is no good evidence to suggest
NSAIDs or acetaminophen D) Continued activity rather than had ract halps speed recovery	that systemic corticosteroids are effective for low back pain with or without sciatica.
D) Continued activity rather than bed rest helps speed recovery	sciatica.
E) Trigger-point injections are superior to placebo in relieving acute back pain	Dain back 00.052 low back Controlled substance Conferencedal ANG E There
<b>09-053.</b> +Mus+Adm. A 28-year-old male is seen for follow-up of acute low back	Pain, back. <b>09-053.</b> low back. Controlled substance, Carisoprodol. <b>ANS=E.</b> There is limited data regarding the effectiveness of muscle relevants in musculoskeletal
pain. He has a past history of substance abuse. Ibuprofen and acetaminophen have helped some, but he is experiencing muscle spasms. It is best to avoid which one	is limited data regarding the effectiveness of muscle relaxants in musculoskeletal conditions, but strong evidence regarding their toxicity. Because the evidence for
of the following when treating this patient's problem?	comparable effectiveness is weak, drug selection should be based on patient
A) Chlorzoxazone (Parafon Forte DSC)	preference, side-effect profile, drug interactions, and abuse potential.
B) Metaxalone (Skelaxin)	
C) Cyclobenzaprine (Flexeril)	Carisoprodol is metabolized to meprobamate, which is a class III controlled
D) Methocarbamol (Robaxin)	substance. It has been shown to produce both physical and psychologic
E) Carisoprodol (Soma)	dependence.
<b>09-225.</b> +Mus+Mac. During a routine prenatal visit, a patient at 28 weeks	Pain, back. 09-225. low back. Low back pain and pelvic pain are commonly
gestation describes a worsening pain in her lower back and pelvic area. She is	encountered in pregnancy, a time when medication or physical modality use may
averse to analgesics but is eager to try exercise to relieve the pain. Additional	prove undesirable or difficult. <b>ANS=C.</b> A properly prescribed exercise program is
patient history and an examination confirm that the pain is not due to underlying	a generally safe and effective method to treat this pain. The most appropriate
medical problems. Which one of the following would be the most appropriate	exercises for pregnancy related pelvic pain and low back pain target the low back,
exercise prescription for this patient? A) Isometric exercise B) Concentric	trunk, and abdominal muscles to increase core stability. Examples of such
exercise C) Core stability exercise D) Closed kinetic chain exercise E) Isotonic	exercises include Pilates, back extension exercises, and abdominal crunches.
exercise	Isometric and isotonic exercises work muscle groups against either an external
	force or opposing muscle groups, and are best suited for the development of
	muscle tone, strength, and conditioning in the extremities. Likewise, concentric
	and closed kinetic chain exercises involve working muscles against resistance, and
	are best suited for rehabilitating and strengthening the extremities.
10-075. +Mus+Adm.>L* A 45-year-old male presents with a 4-month history of	Pain, back. <b>10-075. Chronic. ANS=E.</b> Most chronic back pain (up to 70%) is
low back pain that he says is not alleviated with either ibuprofen or	nonspecific or idiopathic in origin. Treatment options that have the best evidence
acetaminophen. On examination he has no evidence of weakness or focal	for effectiveness include analgesics (acetaminophen, tramadol, NSAIDs),
tenderness. Laboratory studies, including a CBC, erythrocyte sedimentation rate,	multidisciplinary rehabilitation, and acupuncture (all SOR A). Other treatments
C-reactive protein, and complete metabolic profile, are all normal. MRI of the	likely to be beneficial include herbal medications, tricyclics, antidepressants,
lumbosacral region shows mild bulging of the L4-L5 disc without impingement	exercise therapy, behavior therapy, massage, spinal therapy, opioids, and short-
on the thecal sac. Which one of the following has been shown to be beneficial in	term muscle relaxants (all SOR B). There is conflicting data regarding the
this situation?	effectiveness of back school, low-level laser therapy, lumbar supports, viniyoga,
A) Traction	antiepileptic medications, prolotherapy, short-wave diathermy, traction,
B) Ultrasound	transcutaneous electrical nerve stimulation, ultrasound, and epidural corticosteroid
C) Epidural corticosteroid injection	injections (all SOR C).
D) A back brace	
E) Acupuncture	
<b>10-114.</b> +Psy+Mhe.>L?* A 45-year-old male with chronic nonmalignant back	Pain, back. 10-114. chronic nonmalignant. ANS=E. The use of narcotics for
pain is on a chronic narcotic regimen. Which one of the following behaviors is	chronic nonmalignant pain is becoming more commonplace. Guidelines have
LEAST likely to be associated with pseudoaddiction, as opposed to true	been developed to help direct the use of these medications when clinically
addiction?	appropriate. However, even when given appropriately, the use of opioid
A) Requesting a specific drug	medications for pain relief can cause both the physician and the patient to be
B) Aggressive complaining about needing more medication	concerned about the possibility of addiction. Addiction is a neurobiologic,
C) Hoarding drugs during periods of reduced symptoms	multifactorial disease characterized by impaired control, compulsive drug use, and
D) Requesting medication exactly at prescribed times when hospitalized	continued use despite harm. <i>Pseudoaddiction</i> is a term used to describe patient
E) Concurrent abuse of alcohol or illicit drugs	behaviors that may occur when pain is undertreated. Patients with unrelieved pain
	may become focused on obtaining specific medications, seem to watch the clock,
	or engage in other behaviors that appear to be due to inappropriate drug seeking.
	Pseudoaddiction can be distinguished from true addiction because the behaviors
	will resolve when the pain is effectively treated. The concurrent use of alcohol
	and/or illicit drugs complicates the management of chronic pain in patients. If
	these are known problems, patients should be referred for psychiatric or pain
Convrighted Material ITE Personal Notes Not for Sale Page 110 of 170	Mario A limenez M.D. RSEE "lesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	specialty evaluation before the decision is made to use opioids. Agreements for use of chronic opioids should include the expectation that alcohol and illicit drugs will not be used concurrently, and doing so suggests addiction rather than pseudoaddiction.
<ul> <li>10-208. +Mus+Adm. A 35-year-old male presents with a 4-month history of pain in the lower lumbar region without radiation. He works in retail sales, and the pain and stiffness prevent him from working. He estimates the pain to be 7 on a 10-point scale. He has been under the care of a chiropractor and has experienced some relief with spinal manipulation. His history is negative for red flags indicating a serious cause for his pain. The only positive findings on a physical examination are diffuse mild tenderness over the lumbar region and mild limitation of lumbar mobility on forward and lateral flexion/extension maneuvers. Appropriate laboratory tests and imaging studies are all within normal limits. In addition to appropriate analgesics, which one of the following modalities has the best evidence of long-term benefit in this situation?</li> <li>A) Transdermal electric nerve stimulation (TENS)</li> <li>B) Epidural corticosteroid injections</li> <li>C) SSRIs</li> <li>D) Multidisciplinary rehabilitation</li> </ul>	Pain, back. <b>10-208.</b> chronic. <b>ANS=D.</b> This patient has nonspecific chronic back pain, most likely a lumbar strain or sprain. In addition to analgesics (e.g., acetaminophen or NSAIDs) (SOR A) and spinal manipulation (SOR B), a multidisciplinary rehabilitation program is the best choice for management (SOR A). This program includes a physician and at least one additional intervention (psychological, social, or vocational). Such programs alleviate subjective disability, reduce pain, return the person to work earlier, and reduce the amount of sick time taken in the first year by 7 days. Benefits persist for up to 5 years. Back school, TENS, and SSRIs have been found to have negative or conflicting evidence of effectiveness (SOR C). There is no evidence to support the use of epidural corticosteroid injections in patients without radicular signs or symptoms (SOR C).
<ul> <li>07-086. +Mus+Cca. A 6-year-old female is brought to your office for recurring limb pain. For the past 2 weeks she has complained of cramping pain in her thighs and calves, which has caused her to awaken at times. Massage and occasional acetaminophen help. In the morning the symptoms are gone and daily activity is unimpaired. Her physical examination is normal. On examination she has no inflammatory signs and no joint or muscle tenderness. Which one of the following would be most appropriate at this point?</li> <li>A) Radiographs of the hips and knees</li> <li>B) An erythrocyte sedimentation rate</li> <li>C) A CBC</li> <li>D) Antinuclear antibody (ANA) testing</li> <li>E) No further testing</li> <li>07-027. +Car+Adm. A 44-year-old female comes to your office with chest pain of</li> </ul>	Pain, benign nocturnal. <b>07-086. ANS=E.</b> This patient is experiencing benign nocturnal pains of childhood, formerly called "growing pains." These are cramping pains of the thigh, shin, and calf, and affect approximately 35% of children 4–6 years of age. The pain typically occurs in the evening or at night, may awaken the child from sleep, and disappears by morning. This classic presentation in the absence of other inflammatory or chronic signs and symptoms should reinforce the benign nature of this condition. Physical findings are normal, so in the absence of worrisome complaints or anatomic abnormalities no further diagnostic testing is required. Parents should be reassured that there are no long-term sequelae. If activity is impaired, the physical examination is abnormal, or any constitutional or systemic complaints are present, then further evaluation with additional testing is indicated, and may include an erythrocyte sedimentation rate, CBC, antinuclear antibody, or radiographs of affected bones or joints.
several days' duration. She describes the pain as sharp and stabbing, and indicates that it is located at the left sternal border; it is increased by coughing and palpation. There is no family history of heart disease, nor is there a personal history of diabetes, hypertension, smoking, or hyperlipidemia. A physical examination, an EKG, and chest radiographs are all normal. Further diagnostic studies should include A) a treadmill exercise test with EKG and blood pressure monitoring B) a stress echocardiogram C) stress myocardial perfusion imaging D) referral for cardiac catheterization E) no additional tests	and has no risk factors for coronary artery disease (CAD). Since the likelihood of coronary disease is very low, stress testing is not indicated. For patients with typical chest pain and risk factors, the probability of CAD is high and it is usually best to proceed directly to cardiac catheterization. In individuals with an intermediate probability of CAD who are able to exercise, the choice is treadmill testing if they have an interpretable EKG, no evidence of left ventricular dysfunction, and no history of previous coronary artery bypass surgery. If the baseline EKG is not interpretable (due to left bundle branch block, early repolarization, left ventricular hypertrophy, or digoxin use) then an exercise test with imaging (nuclear or echocardiographic) is indicated. Those unable to exercise can have pharmacologic stress testing with imaging.
<ul> <li>07-192. +Mus+Adm. Chest pain associated with cocaine use</li> <li>A) should be treated with B-blockers</li> <li>B) has an onset that has a consistent relationship with time of use</li> <li>C) is associated with characteristic EKG changes</li> <li>D) is mainly vasospastic in origin</li> </ul>	Pain, chest. 07-192. cocaine use. ANS=D. While chest pain related to cocaine use and withdrawal may be due to atherosclerosis, the main mechanism is believed to be a dopamine-depleted state, resulting in coronary vasospasm. This vasospasm can occur at even low doses. Coronary artery vasospasm is exacerbated by B- blockade, and is likely mediated through A-adrenergic receptors. Therefore, B- blockers are contraindicated for patients with chest pain associated with cocaine use, because of concerns about unopposed A-adrenergic stimulation worsening coronary and peripheral vasoconstriction, and hypertension. The temporal relationship of cocaine use to the onset of chest pain is highly variable, which may indicate a chronic abnormality predisposing to myocardial ischemia. The EKG abnormalities are variable. A significant number of patients with cocaine- associated chest pain have evidence of persistent ST-segment elevation rather than the transient changes typical of coronary artery spasm.
<b>08-156.</b> +Non+Euc. A 42-year-old female presents with a 2-day history of chest pain. She describes the pain as sharp, located in the right upper chest, and worsened by deep breathing or coughing. She also complains of shortness of breath. She was previously healthy and has no recent history of travel. Her vital signs are normal. A pleural friction rub is noted on auscultation of the lungs. The remainder of the examination is normal. An EKG, cardiac enzymes, oxygen saturation, and a D-dimer level are all normal. Which one of the following would be most appropriate at this point? A) No further testing B) A chest radiography C) An antinuclear antibody test D) Echocardiography E) Pulmonary angiography	Pain, chest. 08-156. Pleurisy. ANS=B. This patient has pleurisy. Patients presenting with pleuritic chest pain may have life-threatening disorders, and pulmonary embolism, acute myocardial infarction, and pneumothorax should be excluded. While 5%–20% of patients with pulmonary embolism present with pleuritic chest pain, this patient has no risks for pulmonary embolism and the normal D-dimer level obviates the need for further evaluation. Moderate- to high-risk patients may need a helical CT scan or other diagnostic testing. An EKG and chest radiograph are recommended in the evaluation of acute/subacute pleuritic chest pain. The chest radiograph will exclude pneumothorax, pleural effusion, or pneumonia. An echocardiogram would not be indicated if the cardiac examination and EKG are normal. An antinuclear antibody level could be considered in recurrent pleurisy or if other symptoms or signs of lupus were present, but it would not be indicated in this patient. Most cases of acute pleurisy are viral and should be treated with NSAIDs unless the workup indicates another problem.
<b>09-072.</b> +Car+Adm. A 50-year-old male presents with a 1-day history of fever and chest pain. The chest pain is worse when he is in a supine position and with	Pain, chest. 09-072. Pericarditis, acute. ANS=A. This patient demonstrates classic clinical features of acute pericarditis. Although the EKG findings appear specific

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
deep inspiration, and improves when he leans forward. He has no shortness of breath and has never had this problem before. His vital signs are normal except for a temperature of 37.8°C (100.0°F). He has no other medical problems or allergies, and takes no medications. An EKG reveals widespread ST-segment elevation, upright T waves, and PR-segment depression. His troponin level is normal. An echocardiogram is pending. Which one of the following would be the most appropriate treatment for this patient? A) Aspirin B) Prednisone C) Heparin D) Enoxaparin (Lovenox)	for the early stages of pericarditis, myocardial infarction would also be included in the differential diagnosis. However, unlike with acute pericarditis, the EKG in myocardial infarction typically demonstrates ST elevation that is localized and convex, often has Q waves, and rarely shows PR-segment depression. A friction rub can be heard in up to 85% of patients with acute pericarditis. An echocardiogram is often performed to determine the type and amount of effusion. <b>Conventional therapy for acute pericarditis includes NSAIDs</b> , such as aspirin and ibuprofen. Recent studies demonstrate that adding colchicine to aspirin may be beneficial in reducing the persistence and recurrence of symptoms.
<b>09-106.</b> +Res+Euc. A 40-year-old white female presents with pain on inspiration and dyspnea since this morning. She has no chronic medical problems, takes no medications, has not traveled, and has no history of trauma. On examination the patient is afebrile, has a heart rate of 90 beats/min and a respiratory rate of 20/min, and her lungs are clear to auscultation. The pain is worse in the supine position. Which one of the following would you do initially? A) Order a CBC with differential B) Order a chest film and EKG C) Prescribe ibuprofen D) Prescribe omeprazole (Prilosec) E) Prescribe a bronchodilator	Pain, chest. <b>09-106.</b> Pleuritic and dyspnea. <b>ANS=B.</b> This patient has pleuritic chest pain, and the fact that it is worse when supine and is accompanied by dyspnea creates additional concern. <b>Supine pain could be due to pericarditis, which may be evident on an EKG</b> . Dyspnea increases suspicion for pneumonia, pulmonary embolism, pneumothorax, and myocardial infarction, and a chest film and EKG are recommended to evaluate these possibilities. The lack of any significant medical history does not rule out any of these problems. Once these problems have been ruled out, a diagnosis of pleurisy would be reasonable and can be treated with an NSAID. A CBC would only indicate the possibility that infection or anemia is the cause of the problem. Omeprazole or a bronchodilator would be inappropriate treatment, as asthma and reflux are not likely in this patient.
<b>09-146.</b> +Car+Euc. A 52-year-old female presents to the emergency department with a complaint of chest pain. The symptoms began 2 hours ago while she was shopping. She describes the pain as a tighypertensioness on the left side of her chest that radiates to her left shoulder. She has some shortness of breath with the pain, but no nausea or diaphoresis. Her past medical history is significant for panic disorder. Her vital signs and a physical examination are within normal limits. Which one of the following would be the most appropriate next step in the management of this patient? A) Admit to a monitored bed for further evaluation B) Obtain a CBC, a blood chemistry profile, liver function tests, and an EKG C) Administer a short-acting benzodiazepine and observe for 60 minutes D) Consult with a cardiologist for immediate heart catheterization E) Obtain a troponin I measurement and an EKG	Pain, chest. <b>09-146.</b> acute coronary syndrome. <b>ANS=E.</b> This patient has symptoms that suggest acute coronary syndrome, which includes chest pain with activity that radiates to the shoulder. An EKG is essential early in the evaluation of a patient with chest pain, and the initial evaluation should also include a troponin I measurement. The patient should neither be admitted nor given a benzodiazepine until the EKG is performed. The diagnosis of acute coronary syndrome should be established prior to heart catheterization. Other laboratory tests may be appropriate, but they are not the most important initial tests.
<b>09-177.</b> +Car+Adm. A 63-year-old female with type 2 diabetes mellitus presents to the emergency department with unstable angina. Her blood pressure is 150/90 mm Hg, her pulse rate is 70 beats/min, and her lungs are clear to auscultation. The patient expresses a preference for conservative (i.e., noninvasive) therapy. In addition to aspirin, which one of the following agents should be administered at this time? A) Clopidogrel (Plavix) orally B) Indomethacin (Indocin) orally C) Nifedipine (Procardia) immediate-release, orally D) Abciximab (ReoPro) intravenously E) Enalaprilat intravenously	Pain, chest. <b>09-177.</b> Unstable angina/NSTEMI, clopidogrel. <b>ANS=A</b> An oral loading dose of clopidogrel should be administered as soon as possible in patients with unstable angina/NSTEMI who are to be treated conservatively. The standard dosage should then be prescribed, to be taken daily for at least 1 month along with aspirin (SOR B). Immediate-release calcium channel antagonists such as nifedipine are not indicated. If b-blockers are contraindicated, verapamil or diltiazem would be the preferred agents. Intravenous ACE inhibitors may induce shock and should be avoided in the first 24 hours. Abciximab is used for patients who will undergo rapid catheterization with a significant chance of acute coronary intervention. NSAIDs are contraindicated because they may weaken areas of damaged myocardium and increase the risk of infarction or extension. They have been used in the past for treatment of associated pericarditis, which most frequently develops a few days after presentation, but are now avoided.
<b>09-200.</b> +Car+Euc. A 35-year-old white male presents to the emergency department with chest pain of 30 minutes duration. He describes the pain as feeling like pressure on his chest, and says it radiates into his left arm. It is accompanied by dyspnea, diaphoresis, anxiety, and palpitations. His past medical history is unremarkable and he has no family history of premature heart disease. He smokes 2 packs of cigarettes per day and admits to intranasal cocaine use 2 hours ago. Vital signs include a blood pressure of 180/110 mm Hg, a pulse rate of 110 beats/min, a respiratory rate of 24/min, and a temperature of 37.2°C (99.0°F). Other than the anxiety and diaphoresis, the general examination is unremarkable. An EKG shows sinus tachycardia with an early repolarization pattern. Aspirin and nitroglycerin have been administered, as well as oxygen via nasal cannula. Which one of the following would be most appropriate at this point? A) Nifedipine (Procardia) B) Enalaprilat intravenously C) Lorazepam (Ativan) intravenously D) Metoprolol (Toprol) intravenously E) Thrombolytic therapy	Pain, chest. <b>09-200</b> . cocaine. <b>ANS=C</b> . Treatment of cocaine-associated chest pain is similar to that of acute coronary syndrome, unstable angina, or acute myocardial infarction, but there are exceptions. The hypertension, tachycardia, and chest pain will often respond to intravenous benzodiazepines as early management. While B-blockers are recommended for acute myocardial infarction, they can exacerbate coronary artery spasm in cocaineassociated chest pain. Fibrinolytic therapy should be given only to patients who clearly have an STsegment elevation myocardial infarction and cannot receive immediate direct percutaneous coronary intervention. Calcium channel blocker use in the setting of cocaine-induced ischemia has not been studied, but may be considered if there is no response to benzodiazepines and nitroglycerin. There are no recommendations regarding the use of ACE inhibitors, but these agents would not address the tachycardia.
<b>09-207.</b> +Car+Euc. A 54-year-old male presents to the emergency department with an acute onset of chest pain. His cardiac risk factors include hypertension, hyperlipidemia, and a positive family history. His temperature is 37.0°C (98.6°F), pulse rate 80 beats/min, blood pressure 155/86 mm Hg, and respiratory rate 22/min. His oxygen saturation is 95% on room air. An EKG shows rare unifocal PVCs and nonspecific ST-T-wave changes. Initial cardiac markers are negative. Which one of the following would be most appropriate at this point? A) Helical (spiral) CT of the chest B) Echocardiography C) PA and lateral chest films D) A ventilation-perfusion scan E) Magnetic resonance angiography	Pain, chest. <b>09-207. ANS=C.</b> <u>PA and lateral chest radiographs are still</u> <u>valuable in the early evaluation of patients with chest pain</u> . While they do not confirm or rule out the presence of myocardial ischemia, other causes of chest pain may be evident, such as pneumothorax, pneumonia, or heart failure. The chest film may also provide clues about other possible diagnoses, such as pulmonary embolism, aortic disease, or neoplasia. The other tests listed often have a role in the evaluation of chest pain, but none has supplanted <b>the plain chest film</b> <b>as the best initial imaging study</b> .
07-122. +Mus+Cca. Little League elbow refers to a problem located over the A) medial epicondyle B) lateral epicondyle C) olecranon D) capitellum E) ulnar groove	Pain, elbow. <b>07-122.</b> Little League elbow is an apophysitis of the medial epicondyle of the elbow. <b>ANS=A</b> . It occurs in throwing athletes between 9 and 12 years of age, and causes elbow pain during throwing. It may also affect velocity

or-og6. +Mus+Adm. A healthy 25-year-old female runner presents with a complaint of right heel pain for 2 months. The pain is most pronounced with the first steps of the day or after periods of rest, and is located around the medial calcaneal tuberosity. Which one of the following is NOT recommended for acute treatment?       Pain, heel. 07-096. Plantar fasciitis. ANS=A. These findings are classic for planta fasciitis. Treatments in the acute phase include insoles, night splints, corticosteroid iontophoresis, and NSAIDs. Based on current evidence, extracorporeal shock wave therapy         B) Prefabricated insoles (heel pad)       C) Night splints         D) Corticosteroid iontophoresis       Pain, heel. 07-096. Plantar fasciitis. ANS=A. These findings are classic for planta fasciitis. Treatments in the acute phase include insoles, night splints, corticosteroid iontophoresis, and NSAIDs. Based on current evidence, extracorporeal shock wave therapy is recommended only after 12 months of symptoms.	
complaint of right heel pain for 2 months. The pain is most pronounced with the first steps of the day or after periods of rest, and is located around the medial calcaneal tuberosity. Which one of the following is NOT recommended for acute treatment? A) Extracorporeal shock wave therapy B) Prefabricated insoles (heel pad) C) Night splintsfasciitis. Treatments in the acute phase include insoles, night splints, corticosteroid iontophoresis, and NSAIDs. Based on current evidence, extracorporeal shock wave therapy is recommended only after 12 months of symptoms.	
the first steps of the day or after periods of rest, and is located around the medial calcaneal tuberosity. Which one of the following is NOT recommended for acute treatment?corticosteroid iontophoresis, and NSAIDs. Based on current evidence, extracorporeal shock wave therapy is recommended only after 12 months of symptoms.A) Extracorporeal shock wave therapy B) Prefabricated insoles (heel pad) C) Night splintscorticosteroid iontophoresis, and NSAIDs. Based on current evidence, extracorporeal shock wave therapy is recommended only after 12 months of symptoms.	10
medial calcaneal tuberosity. Which one of the following is NOT recommended for acute treatment?extracorporeal shock wave therapy is recommended only after 12 months of symptoms.A) Extracorporeal shock wave therapy B) Prefabricated insoles (heel pad) C) Night splintsextracorporeal shock wave therapy is recommended only after 12 months of symptoms.	10
for acute treatment?     symptoms.       A) Extracorporeal shock wave therapy     B) Prefabricated insoles (heel pad)       C) Night splints     Image: Constraint of the symptom symp	10
<ul><li>A) Extracorporeal shock wave therapy</li><li>B) Prefabricated insoles (heel pad)</li><li>C) Night splints</li></ul>	10
C) Night splints	10
	1e
	ne
D) Corticosteroid iontophoresis E) NSAIDs	ne
<b>08-012.</b> +Mus+Adm. A 55-year-old male presents for an evaluation of heel pain. Pain, heel. <b>08-012.</b> Plantar fasciitis is an overuse injury due to microtrauma of the	ue l
He has a relatively sedentary office job, but exercises daily by jogging 3 miles. He plantar fascia where it attaches at the medial calcaneal tubercle. ANS=E. The	
has pain in the right heel at the medial aspect of the calcaneus and is tender on patient experiences heel or arch pain, which often is worse upon arising and	
examination. The pain is worse with the first few steps of the morning. Which one taking the first few steps of the morning. Examination reveals tenderness at the	
of the following would be the most appropriate initial treatment for this patient? site and pain with dorsiflexion of the toes. Stress fractures often cause pain at rest	
A) Corticosteroid injection that intensifies with weight bearing. Treatment strategies include relative rest, ice	
B) Extracorporeal shockwave therapy C) Surgical referral for bone spur removal NSAIDs, and prefabricated shoe inserts that provide arch support, as well as heel cord and plantar fascia stretching. Currently, there is evidence against the use of	
D) Non-weight bearing for 1 month extracorporeal shockwave therapy. If conservative therapy fails, a corticosteroid	
E) Stretching exercises for the Achilles tendon injection may be useful. Surgery is reserved for patients refractory to 6–12 month	
of uninterrupted conservative therapy.	
10-059. +Mus+Adm.?* A 35-year-old male amateur rugby player seeks your Pain, hip. 10-059. Femoroacetabular impingement. ANS=D. Gradually worsening	ng
advice because right hip pain of several months' duration has progressed to the anterolateral hip joint pain that is sharply accentuated when pivoting laterally on	
point of interfering with his athletic performance. The pain is accentuated when he the affected hip or moving from a seated to a standing position is consistent with	a
transitions from a seated to a standing position, and especially when he pivots on the bin while running, but he cannot recall any cignificant traume to the area and available running but he cannot recall any cignificant traume to the area and	
the hip while running, but he cannot recall any significant trauma to the area and finds no relief with over-the-counter analgesics. On examination his gait is stable. examination (FADIR test) is the most sensitive physical finding. Special	
The affected hip appears normal and is neither tender to palpation nor excessively radiographic imaging of the flexed and adducted hip can emphasize the anatomic	c
warm to touch. Although he has a full range of passive motion, obvious abnormalities associated with impingement that may go unnoticed on standard	-
discomfort is evident with internal rotation of the flexed and adducted right hip. radiographic series views. Although the pain associated with avascular necrosis is	is
Which one of the following is most strongly suggested by this clinical picture?similarly insidious and heightened when bearing weight, tenderness is usually	
A) Osteoarthritis evident with hip motion in any direction. Osteoarthritis of the hip generally occur	ırs
B) Avascular necrosisin individuals of more advanced age than this patient, and the pain produced isC) Bursitistypically localized to the groin area and can be elicited by flexion, abduction, and	d.
D) Impingement external rotation (FABER test) of the affected hip. Bursitis manifests as soreness	
E) Pathologic fracture after exercise and tenderness over the affected bursa.	5
07-030. +Mus+Adm. A 62-year-old white female presents to your office with Pain, knee. 07-030. Anserine bursitis is characterized by pain, particularly at	
moderately severe knee pain. She has a history of osteoarthritis and is not aware night, that occurs in the medial knee region over the upper tibia. ANS=D. It is	
of any recent injury. The pain bothers her both during the day and at night. located about 2–3 cm below the medial joint line. It can be bilateral. A diagnosis	
Examination reveals a moderately obese female with a normal knee examination of anserine bursitis requires local tenderness confined to a quarter-sized area of the model thick plateau and the model thick plateau and the model is the model of the model.	
except for tenderness in the medial tibial plateau region, approximately 3 cm (1½ in) below the medial joint line of the knee. The area of tenderness is about the size negative valgus stress maneuver, which indicates an intact medial collateral	
of a quarter. All ligaments of the knee are intact on examination. There is no knee ligament; and a normal radiograph of the tibia indicating no underlying pathology	σv.
effusion. A radiograph is negative except for minimal degenerative changes. De Quervain's tendinitis is located in the wrist region, not the knee. Prepatellar	55
Which one of the following should you suspect?         bursitis is characterized by knee swelling and pain over the front of the knee.	
A) De Quervain's tendinitis Bursitis that occurs adjacent to the medial collateral	
B) Prepatellar bursitis ligament typically presents with tenderness over the medial aspect of the knee.	
C) Bursitis of the medial collateral ligament D) Anserine bursitis Medial joint line pain is characteristic of osteoarthritis, second and third degree medial collateral ligament injuries, medial meniscal tears, and fractures of the	
E) Medial meniscus tear tibial plateau.	
<b>07-049.</b> +Mus+Cca. A 14-year-old male who is active in sports most of the year Pain, knee. <b>07-049.</b> Osgood-Schlatter disease is encountered in patients between	1
presents with bilateral anterior knee pain that is worse in the right knee. An 10 and 15 years of age. <b>ANS=A</b> . These patients are often active in sports that	
examination reveals tenderness and some swelling at the tibial tubercles. Which involve a lot of jumping. It is thought to be secondary to repetitive microtrauma	
one of the following is true regarding this patient's condition? A) It is almost and traction apophysitis of the tibial tuberosity. Bilateral symptoms are present in	in
never seen in adults B) Treatment with a straight leg cylinder cast for 6 weeks is often needed C) Corticatorial injection of the third tylescale is a sefe and	t
often needed C) Corticosteroid injection of the tibial tubercle is a safe and effective treatment D) Radiographs should always be ordered to rule out other patients are able to return to full activity within 2–3 weeks. Treatment includes	7SL
conditions E) Bilateral symptoms are unusual rest, ice, anti-inflammatory medications, a rehabilitation program, and an	
infrapatellar strap during activities. Casting and corticosteroid injections are not	
indicated.	
07-229. +Mus+Adm. A 25-year-old runner complains of nonfocal knee pain. She Pain, knee. 07-229. Patellofemoral pain syndrome causes nonfocal or anterior	
does not remember any specific injury. You suspect patellofemoral pain knee pain, and is often seen in runners. ANS=A. <u>Common symptoms include</u>	
syndrome. Which one of the following would be most consistent with this diagraphical setting. Barely is there explained and the syndrome are presented as the syndrome and the syndrome and the syndrome are presented as the syndrome and the syndrome are presented as the syndrom	•
diagnosis?stairs.A) Pain with prolonged sittinglikely to be associated with more profound problems such as a ligament or	e
B) Swelling cartilage tear.	
C) Locking	
D) Giving way	
08-081. +Mus+Adm. A 32-year-old female who is an avid runner presents with Pain, knee. 08-081. Patellofemoral pain syndrome is a clinical diagnosis and is the	he
knee pain. You suspect patellofemoral pain syndrome. Which one of the following most common cause of knee pain in the outpatient setting. ANS=D. It is	
signs or symptoms would prompt an evaluation for an alternative diagnosis? A) Peripatellar pain while running characterized by anterior knee pain, particularly with activities that overload the joint, such as stair climbing, running, and squatting. Patients complain of	,
A) Peripatellar pain while runningjoint, such as stair climbing, running, and squatting. Patients complain ofB) Knee stiffness with sitting"popping," "catching," "stiffness," and "giving way." On examination there will	1
C) A "popping" sensation in the knee be a positive "J" sign, with the patella moving from a medial to a lateral location	
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 113 of 170 Receive." Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>	

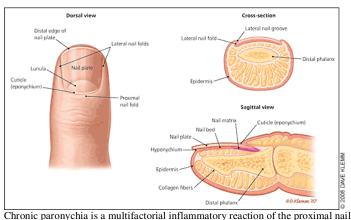
Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
D) "Locking" of the joint E) A positive "J" sign (lateral tracking of the patella when moved from flexion to full extension)	when the knee is fully extended from the 90° position. This is caused by an imbalance in the medial and lateral forces acting on the patella. "Locking" is not characteristic of patellofemoral pain syndrome, so loose bodies or a meniscal tear should be considered if this is found.
<ul> <li>09-158. +Mus+Adm. A 30-year-old male complains of the gradual onset of anterior right knee pain on climbing the stairs. On examination there is no effusion, but there is tenderness over the medial retinaculum. There is good ligament strength, and range of motion is normal. When the knee is extended from 90° flexion to full extension, the patella deviates laterally. Which one of the following would be the best initial treatment for this condition?</li> <li>A) Bracing B) Taping C) NSAIDs D) Arthroscopic surgery</li> <li>E) Physical therapy</li> </ul>	Pain, knee. <b>09-158.</b> Patellofemoral stress syndrome. <b>ANS=E.</b> This patient has patellofemoral stress syndrome. It is often called runner's knee or anterior knee pain. The patellofemoral joint comprises the patella and femoral trochlea. The best initial treatment is physical therapy. Bracing, taping, and medications are unlikely to have better outcomes. Arthroscopic surgery is not indicated.
<b>07-002.</b> +Mus+Adm. Which one of the following studies is indicated for patients with restless legs syndrome (RLS)? A) Antinuclear antibody (ANA) testing B) A creatine phosphokinase level C) A CBC D) A serum ferritin level E) Electromyography	Pain, leg. <b>07-002.</b> Restless legs syndrome (RLS). <b>ANS=D.</b> A high prevalence of iron deficiency has been found among patients with restless legs syndrome (RLS), and treatment of the deficiency has been reported to improve or resolve symptoms. A low serum ferritin level (<50 mg/L) has been associated with greater severity of RLS and with a reduction in the quantity of sleep as determined by polysomnography. In patients with a serum ferritin level <18 mg/L, treatment with oral iron supplements resulted in improvements in the severity of the symptoms of RLS and, in some patients, complete resolution of symptoms. Because RLS may be a symptom of iron deficiency and because iron deficiency is frequently present in the absence of anemia, iron status (serum ferritin and iron saturation) should be assessed. No other laboratory tests are routinely indicated.
<b>07-018.</b> +Car+Adm. A 65-year-old white female presents with symptoms and signs of intermittent claudication. She has a history of increasing angina pectoris leading to coronary artery bypass surgery 3 years ago. She has generally done well since the surgery, and you have provided appropriate medical management for postoperative coronary artery disease. She has reduced her cigarette smoking, but still smokes and leads a sedentary lifestyle. In addition to emphasizing smoking cessation and recommending an exercise program, which one of the following would be most effective for managing this patient's intermittent claudication? A) Cilostazol (Pletal) B) Clopidogrel (Plavix) C) Pentoxifylline (Trental) D) Ginkgo biloba E) Aspirin	Pain, leg. <b>07-018.</b> Claudication. <b>ANS=A.</b> <u>Of the medications currently</u> available for the treatment of intermittent claudication, cilostazol is the most <u>effective</u> . A meta-analysis of eight randomized, placebo-controlled trials of cilostazol for moderate to severe claudication found that 100 mg of the drug twice daily increased maximal and pain-free walking distances by 50% and 67%, respectively. Clopidogrel may be marginally more effective than aspirin as an antiplatelet agent, but is more expensive. Neither pentoxifylline nor ginkgo biloba, a non-FDA-approved dietary supplement with antiplatelet, vasodilating, and antioxidant activity, has been shown to be more effective than placebo. At best, they would be a weak intervention for peripheral artery disease. <b>Hint: Cilo esta zolo (cilostazol), he claudicated (claudication).</b>
<ul> <li>08-050. +Car+Adm. Which one of the following is most appropriate for the initial treatment of claudication?</li> <li>A) Regular exercise</li> <li>B) Chelation</li> <li>C) Vasodilating agents</li> <li>D) Warfarin (Coumadin)</li> </ul>	Pain, leg. <b>08-050.</b> Claudication. <b>ANS=A.</b> Claudication is exercise-induced lower- extremity pain that is caused by ischemia and relieved by rest. It affects 10% of persons over 70 years of age. However, up to 90% of patients with peripheral vascular disease are asymptomatic. Initial treatment should consist of vigorous risk factor modification and exercise. Patients who follow an exercise regimen can increase their walking time by 150%. A supervised program may produce better results. Risk factors include diabetes mellitus, hypertension, smoking, and hyperlipidemia. Unconventional treatments such as chelation have not been shown to be effective. Vasodilating agents are of no benefit. There is no evidence that anticoagulants such as aspirin have a role in the treatment of claudication.
<b>09-084.</b> +Car+Adm. Which one of the following is a risk factor for intermittent claudication? A) Hyperthyroidism B) Hypercalcemia C) Diabetes mellitus D) Hypogonadism E) Elevated angiotensin-converting enzyme	Pain, leg. <b>09-084.</b> Claudication, intermittent. <b>ANS=C.</b> Diabetes mellitus and cigarette smoking are significant risk factors for intermittent claudication, as are hypertension and dyslipidemia. Hyperthyroidism, hypercalcemia, and hypogonadism are not closely associated with intermittent claudication. Elevation of angiotensin-converting enzyme occurs with sarcoidosis.
<ul> <li>10-017. +Mus+Cel.?* A 70-year-old male complains of lower-extremity pain. Increased pain with which one of the following would be most consistent with lumbar spinal stenosis?</li> <li>A) Lumbar spine extension</li> <li>B) Lumbar spine flexion</li> <li>C) Internal hip rotation</li> <li>D) Pressure against the lateral hip and trochanter</li> <li>E) Walking uphill</li> <li>10-044. +Neu+Adm.? A 43-year-old female complains of a several-month history of unplacent carsetionse in bar large and an urge to move bar large. These</li> </ul>	Pain, leg. <b>10-017.</b> Lumbar spinal stenosis. <b>ANS=A.</b> Extension that increases lumbar lordosis decreases the cross-sectional area of the spinal canal, thereby compressing the spinal cord further. Walking downhill can cause this. Spinal flexion that decreases lordosis has the opposite effect, and will usually improve the pain, as will sitting. Pain with internal hip rotation is characteristic of hip arthritis and is often felt in the groin. Pain in the lateral hip is more typical of trochanteric bursitis. Increased pain walking uphill is more typical of vascular claudication. Pain, leg. <b>10-044.</b> Restless legs syndrome. <b>ANS=A.</b> This patient has restless legs
of unpleasant sensations in her legs and an urge to move her legs. These symptoms only occur at night and improve when she gets up and stretches. The sensations often awaken her, and she feels very tired. She has no other medical problems and takes no medication. Laboratory tests reveal a serum calcium level of 8.9 mg/dL (N 8.5–10.5), a serum potassium level of 4.1 mmol/L (N 3.5–5.0), a serum ferritin level of 15 ng/mL (N 10–200), and a serum magnesium level of 1.5 mEq/L (N 1.4–2.0). Which one of the following may improve her symptoms? A) Iron supplementation B) Magnesium supplementation C) Antihistamines D) Stopping calcium supplementation	syndrome, which includes unpleasant sensations in the legs and can cause sleep disturbances. The symptoms are relieved by movement. Recommendations for treatment include lower-body resistance training and avoiding or changing medications that may exacerbate symptoms (e.g., antihistamines, caffeine, SSRIs, tricyclic antidepressants, etc.). It is also recommended that patients with a serum ferritin level below 50 ng/mL take an iron supplement (SOR C). Magnesium supplementation does not improve restless legs syndrome. Ropinirole may be used if nonpharmacologic therapies are ineffective.
E) Amitriptyline 08-117. +Int+Adm. A middle-aged hairdresser presents with a complaint of soreness of the proximal nail folds of several fingers on either hand, which has slowly worsened over the last 6 months. The nails appear thickened and distorted. Otherwise she is healthy and has no evidence of systemic disease. Copyrighted Material. ITE Personal Notes. Not for Sale. Page 114 of 170 receive	Pain, nail. <b>08-117.</b> Paronychia, <b>chronic. ANS=C.</b> Chronic paronychia is a common condition in workers whose hands are exposed to chemical irritants or are wet for long periods of time. This patient is an otherwise healthy hairdresser, with frequent exposure to irritants. The patient should be advised to avoid Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Which one of the following would be the most effective initial treatment? A) Soaking in a dilute iodine solution twice daily to cleanse and sterilize the nail beds

B) Oral amoxicillin/clavulanate (Augmentin) for up to 4–6 weeks

C) Topical betamethasone dipropionate (Diprolene) applied twice daily to the nail folds for 3–4 weeks

D) Rheumatologic and autoimmune workups for HIV, hepatitis C, psoriasis, and rheumatoid arthritis



Chronic paronychia is a multifactorial inflammatory reaction of the proximal nail fold to irritants and allergens. <u>12:19-21</u> This disorder can be the result of numerous conditions, such as dish washing, finger sucking, aggressively trimming the cuticles, and frequent contact with chemicals (e.g., mild alkalis, acids).

09-157. +Int+Adm. A 45-year-old female presents with a complaint of pain and	Pain
swelling in her right index finger of 2 days' duration. She reports that 5 days ago	paro
she had artificial nails applied, which she removed yesterday due to the pain. She	with
used hydrogen peroxide on the finger, but it did not help. She denies any systemic	topic
symptoms or fever. On examination there is erythema and	com
swelling in the lateral nail fold of the right index finger, with purulent material	drair
noted. Which one of the following would be the most appropriate treatment for	treat
this patient?	corti
A) Removal of the proximal nail fold	paro
B) Topical corticosteroids	typic
C) Topical antibiotics	optic
D) Topical antifungals	but r
10-037. +Ref+Cfp. A 24-year-old female presents with pelvic pain. She says that	Pain
the pain is present on most days, but is worse during her menses. Ibuprofen has	pain
helped in the past but is no longer effective. Her menses are normal and she has	Chla
only one sexual partner. A physical examination is normal. Which one of the	ultra
following should be the next step in the workup of this patient?	work
A) Transvaginal ultrasonography	ultra
B) CT of the abdomen and pelvis	work
C) MRI of the pelvis	susp
D) A CA-125 level	a ga
E) Colonoscopy	-
10-228. +Gas+Csp. A 36-year-old white male complains of episodic pain in the	Pain
rectum over the past several years. The pain occurs every 3-6 weeks and is sharp,	proc
cramp-like, and severe. It lasts from 1 to 15 minutes. He has no other	episo
gastrointestinal complaints. A physical examination, including a digital rectal	minu
examination and anoscopy, is normal. The most likely diagnosis is	with
A) fecal impaction	the p
B) coccygodynia	inter

exposure to harsh chemicals and water. In addition, the use of strong topical corticosteroids over several weeks can greatly reduce the inflammation, allowing the nail folds to return to normal and helping the cuticles recover their natural barrier to infection. Soaking in iodine solution would kill bacteria, but would also perpetuate the chronic irritation. Because the condition is related to chemical and water irritation, a prolonged course of antibiotics should not be the first treatment step, and could have serious side effects. There is no need to explore less likely autoimmune causes for nail changes at this time. http://www.aafp.org/afp/2008/0201/p339.html:



The presence or absence of Candida seems to be unrelated to the effectiveness of treatment. Given their lower risks and costs compared with systemic antifungals, topical steroids should be the first-line treatment for patients with chronic paronychia.21 Alternatively, topical treatment with a combination of steroid and antifungal agents may also be used in patients with simple chronic paronychia, although data showing the superiority of this treatment to steroid use alone are lacking.19 Intralesional corticosteroid administration (triamcinolone [Amcort]) may be used in refractory cases.8'19 Systemic corticosteroids may be used for treatment of inflammation and pain for a limited period in patients with severe paronychia involving several fingernails. If patients with chronic paronychia do not respond to topical therapy and avoidance of contact with water and irritants, a trial of systemic antifungals may be useful before attempting invasive approaches. n, nail. 09-157. paronychia. ANS=C. This is a common presentation for acute onychia, which typically is caused by local trauma to the nail fold or cuticle, h resulting inoculation and infection. Topical antibiotics, with or without ical corticosteroids, is one treatment option. Other options include warm npresses, oral antibiotics, and incision and drainage; however, incision and inage is not always necessary. Removal of the proximal nail fold is used to t chronic paronychia that is not responsive to other treatments. Topical ticosteroids can be used alone for chronic paronychia, but if used for acute onychia, they should be combined with antibiotics since acute paronychia is ically caused by a bacterial infection. Topical antifungals are a treatment ion for chronic paronychia, which can be associated with a fungal infection, not for acute paronychia. n, pelvic. 10-037. chronic. ANS=A. The initial evaluation for chronic pelvic n should include a urinalysis and culture, cervical swabs for gonorrhea and lamydia, a CBC, an erythrocyte sedimentation rate, a B-hCG level, and pelvic asonography. CT and MRI are not part of the recommended initial diagnostic rkup, but may be helpful in further assessing any abnormalities found on pelvic

ultrasonography. Referral for diagnostic laparoscopy is appropriate if the initial workup does not reveal a source of the pain, or if endometriosis or adhesions are suspected. Colonoscopy would be indicated if the history or examination suggests a gastrointestinal source for the pain after the initial evaluation.

Pain, rectum. **10-228**. Proctalgia fugax. **ANS=D**. Symptoms consistent with proctalgia fugax occur in 13%–19% of the general population. These consist of episodic, sudden, sharp pains in the anorectal area lasting several seconds to minutes. The diagnosis is based on a history that fits the classic picture in a patient with a normal examination. All the other diagnoses listed would be evident from the physical examination, except for sacral nerve neuralgia, which would not be intermittent for years and would be longer lasting.

D) proctalgia fugaxPain, shoulder. 07-179. Impingement syndrome. ANS=C. The combination of a<br/>pain. He does not recall an injury, but says it is painful to lie on his right side or to<br/>work with his right hand above his head. On examination, the shoulder appears<br/>normal and there is no pain with external rotation of the shoulder, bringing the<br/>arm across the body (scarf test), or attempted external and internal rotation of the<br/>shoulder against resistance. Lowering the arm from full abduction (painful arc),Pain, shoulder. 07-179. Impingement syndrome. ANS=C. The combination of a<br/>painful arc and pain on use of the supraspinatus muscle indicates impingement<br/>syndrome, which is due to irritation of the rotator cuff under the<br/>coracoacromial arch. It is by far the most common cause of shoulder pain<br/>seen by family physicians. Subdeltoid bursitis is a much more acute problem,<br/>and impairs shoulder mobility in all directions. Adhesive capsulitis produces

C) anal fissure

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
attempted abduction above 45° against resistance, and elevating the internally rotated arm above 90° against resistance are all painful. The most likely diagnosis is A) subdeltoid bursitis B) adhesive capsulitis C) impingement syndrome D) glenohumeral osteoarthritis E) acromioclavicular osteoarthritis	loss of external rotation. Glenohumeral arthritis produces pain with external rotation, and variable amounts of impaired mobility, depending on progression of the problem over time. Acromioclavicular joint arthritis produces a positive scarf sign, and often a visible bump over the joint, since it lies so close to the skin surface.
<ul> <li>09-087. +Mus+Adm. A 50-year-old female complains of a 6-month history of the insidious onset of right shoulder pain and decreased range of motion. She does not respond to consistent use of prescription strength anti-inflammatory medication. Radiographs are negative. Treatment of this patient's condition should include A) physical therapy with home exercises</li> <li>B) early surgical referral</li> <li>C) a short course of oral methylprednisolone</li> <li>D) corticosteroid injection of the acromicolavicular joint</li> </ul>	Pain, shoulder. <b>09-087.</b> Adhesive capsulitis or a degenerative rotator cuff tendinopathy. <b>ANS=A.</b> This patient most likely has either adhesive capsulitis or a degenerative rotator cuff tendinopathy. It is important to rule out osteoarthritis with radiographs. Treatment typically includes NSAIDs, subacromial cortisone injections, and physical therapy. These problems take months to treat and should not be referred quickly for surgical evaluation, unless the diagnosis is in question.
<b>09-142.</b> +Mus+Adm. You are examining a patient with a chronically painful shoulder. You forward flex the arm to 90° with the elbow bent to 90°. You then internally rotate the arm, which causes pain in the shoulder. This finding suggests: A) glenohumeral instability B) anterior shoulder dislocation C) impingement/rotator cuff disorder D) acromioclavicular joint osteoarthritis E) acromioclavicular joint separation	Pain, shoulder. <b>09-142.</b> impingement test. <b>ANS=C.</b> The maneuver described is Hawkins' impingement test. Pain with this maneuver may signify subacromial impingement, including a rotator cuff tendinopathy or tear.
<ul> <li>10-001. +Mus+Adm.&gt;L?* A 46-year-old female presents to your office with a 2-week history of pain in her left shoulder. She does not recall any injury, and the pain is present when she is resting and at night. Her only chronic medical problem is type 2 diabetes mellitus. On examination, she has limited movement of the shoulder and almost complete loss of external rotation. Radiographs of the shoulder are normal, as is her erythrocyte sedimentation rate. Which one of the following is the most likely diagnosis?</li> <li>A) Frozen shoulder</li> <li>B) Torn rotator cuff</li> <li>C) Impingement syndrome</li> <li>D) Chronic posterior shoulder dislocation</li> <li>E) Osteoarthritis</li> </ul>	Pain, shoulder. <b>10-001.</b> frozen; <b>ANS=A.</b> <u>Frozen shoulder</u> is an idiopathic condition that most commonly affects patients between the ages of 40 and 60. <u>Diabetes mellitus is the most common risk factor</u> for frozen shoulder. <u>Symptoms include shoulder stiffness, loss of active and passive shoulder rotation, and severe pain, including night pain. Laboratory tests and plain films are normal; the diagnosis is clinical (SOR C). Frozen shoulder is differentiated from chronic posterior shoulder dislocation and osteoarthritis on the basis of radiologic findings. Both shoulder dislocation and osteoarthritis have characteristic plain film findings. A patient with a rotator cuff tear will have normal passive range of motion. <u>Impingement syndrome does not affect passive range of motion, but there will be pain with elevation of the shoulder.</u></u>
<ul> <li>10-198. +Neu+Adm.&gt;L* A 30-year-old male presents with a 3-week history of severe, burning pain in his right shoulder. He recalls no mechanism of injury. An examination reveals weakness to resistance of the biceps and triceps, and with external rotation of the shoulder. Full range of motion of the neck and shoulder does not worsen the pain. Which one of the following would be most likely to identify the cause of this patient's problem?</li> <li>A) Electromyography and nerve conduction studies</li> <li>B) MRI of the neck</li> <li>C) MR arthrography (MRA) of the shoulder</li> </ul>	Pain, shoulder. <b>10-198.</b> brachial neuritis. <b>ANS=A.</b> This patient has brachial neuritis, which can be difficult to differentiate from cervical radiculopathy, shoulder pathology, and cerebrovascular accident. The pain preceded the weakness, no trauma was involved, and the weakness is in a nondermatomal distribution, making brachial neuritis the most likely diagnosis. Electromyography is most likely to show this lesion, but only after 3 weeks of symptoms. MRI of the neck may show abnormalities, but not the cause of the current problem. Symptoms are not consistent with shoulder pathology, deep-vein thrombosis of the upper extremity, or cerebrovascular accident.
<ul> <li>E) Ultrasonography of the upper extremity</li> <li>08-143. +Mus+Csp. A 55-year-old overweight male presents with a complaint of pain in the left big toe. He recently started jogging 2 miles a day to try to lose weight, but has not changed his diet and says he drinks 4 cans of beer every night. The pain has developed gradually over the last 2 weeks and is worse after running. An examination shows a normal foot with tenderness and swelling of the medial plantar aspect of the left first metatarsophalangeal joint. Passive dorsiflexion of the toe causes pain in that area. Plantar flexion produces no discomfort, and no numbness can be appreciated. Which one of the following is the most likely diagnosis?</li> <li>A) Sesamoid fracture</li> <li>B) Gout</li> <li>C) Morton's neuroma</li> <li>D) Cellulitis</li> </ul>	Pain, toe. <b>08-143.</b> Pain involving the big toe is a common problem. <b>ANS=A.</b> The first metatarsophalangeal (MTP) joint has two sesamoid bones, and injuries to these bones account for 12% of big-toe injuries. Overuse, a sharp blow, and sudden dorsiflexion are the most common mechanisms of injury. Gout commonly involves the first MTP joint, but the onset is sudden, with warmth, redness, and swelling, and pain on movement of the joint is common. Morton's neuroma commonly causes numbness involving the digital nerve in the area, and usually is caused by the nerve being pinched between metatarsal heads in the center of the foot. Cellulitis of the foot is common, and can result from inoculation through a subtle crack in the skin. However, there would be redness and swelling, and the process is usually more generalized. Sesamoiditis is often hard to differentiate from a true sesamoid fracture. Radiographs should be obtained, but at times they are nondiagnostic. Treatment, fortunately, is similar, unless the fracture is open or widely displaced. Limiting weight bearing and flexion to control discomfort is the first step. More complex treatments may be needed if the problem does not resolve in 4–6 weeks.
<ul> <li>10-194. +Int+Csp.&gt;L* A 19-year-old college student comes to your office with significant pain in his right great toe that is making it difficult for him to walk. He has never had this problem before. When you examine him you find increased swelling with marked erythema and seropurulent drainage and ulceration of the medial nail fold. The toe is very tender to touch, particularly when pressure is applied to the tip of the toe. The most appropriate initial management would be A) oral antibiotics that cover common skin flora, for 5–7 days</li> <li>B) soaking the toe in warm, soapy water for 10–20 minutes twice daily, followed by application of a topical antibiotic, with a return visit in 3–5 days</li> <li>C) elevation of the nail with a wisp of cotton</li> <li>D) partial avulsion of the medial nail plate and phenolization of the matrix at this visit</li> <li>E) partial avulsion of both the medial and lateral nail plates at this visit</li> </ul>	Pain, toe. <b>10-194.</b> Ingrown nail. <b>ANS=D.</b> This ingrown nail meets the criteria for moderate severity: increased swelling, seropurulent drainage, infection, and ulceration of the nail fold. In these cases, antibiotics before or after phenolization of the matrix do not decrease healing time, postoperative morbidity, or recurrence rates (SOR B). A conservative approach, elevating the nail edge with a wisp of cotton or a gutter splint, is reasonable in patients with a mild to moderate ingrown toenail who do not have significant pain, substantial erythema, or purulent drainage. Either immediate partial nail avulsion followed by phenolization, or direct surgical excision of the nail matrix is effective for the treatment of ingrown nails (SOR B). Pretreatment with soaking and antibiotics has not been demonstrate that once the ingrown portion of the nail is removed and matricectomy is performed, the localized infection will resolve without the need for antibiotic therapy. Bilateral partial matricectomy maintains the functional role of the nail plate (although it narrows the nail plate) and should be considered in
<b>08-133.</b> +Mus+Csp. Which one of the following decreases pain from infiltration	patients with a severe ingrown toenail or to manage recurrences. <b>Pain. 08-133.</b> local anesthetic. <b>ANS=E.</b> The pain from infiltration of local
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 116 of 170	<u> </u>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
of local anesthetics? A) Cooling the anesthetic solution B) Using a 22-gauge needle rather than a 30-gauge needle C) Infiltrating quickly D) Infiltrating through surrounding intact skin	anesthetics can be decreased by using a warm solution, using small needles, performing the infiltration slowly, and adding sodium bicarbonate to the mixture. It also helps to inject the agent through the edges of the wound (assuming the wound is not contaminated) and to pretreat the wound with topical anesthetics.
<ul> <li>E) Adding sodium bicarbonate to the mixture</li> <li>09-220. +Pbs+Adm. A patient with end-stage metastatic cancer is having continued significant pain despite regular use of 60 mg of long-acting morphine sulfate every 12 hours. What is the maximum 24-hour dose of morphine sulfate that you may safely titrate up to in order to relieve this patient's pain? A) 240 mg B) 360 mg C) 480 mg D) 600 mg E) No limit</li> </ul>	Pain. <b>09-220.</b> end-stage disease. Morphine. <b>ANS=E.</b> Because there is no therapeutic ceiling for morphine, extremely large dosages can be used safely and effectively if the drug is titrated properly.
<b>09-224.</b> +Mus+Cca. During a preparticipation examination of a 5-year-old male for summer soccer camp, his mother states that he frequently awakens during the night with complaints of cramping pain in both legs, and that he seems to experience this after a day of heavy physical activity. She says that he appears to drag his legs at times, but she has never noticed a definite limp. A physical examination of the hips, knees, ankles, and leg musculature is entirely normal. Which one of the following would be the most appropriate next step in the evaluation and management of this patient? A) Plain films of both hips and knees B) Serum electrolyte levels C) Recommending that he not participate in running sports D) Reassurance, with no activity restrictions or treatment E) Referral to a pediatric orthopedist	Pain. 09-224. Benign nocturnal limb pains of childhood (growing pains) occur in as many as one-third of children, most often between 4 and 6 years of age. ANS=D. The etiology is unknown, but the course does not parallel pubescent growth, as would be expected if bone growth was the source of pain. The pain often awakens the child within hours of falling asleep following an active day. The pain is generally localized around the knees, most often in the shins and calves, but also may affect the thighs and the upper extremities. A characteristic history coupled with a normal physical examination will confirm the diagnosis. Reassurance that no additional tests or treatments are necessary and that the condition is self-limiting is the most appropriate response.
<ul> <li>10-131. +Pbs+Adm. A 60-year-old female receiving home hospice care was taking oral morphine, 15 mg every 2 hours, to control pain. When this was no longer effective, she was transferred to an inpatient facility for pain control. She required 105 mg of morphine in a 24-hour period, so she was started on intravenous morphine, 2 mg/hr with a bolus of 2 mg, and was well controlled for 5 days. However, her pain has worsened over the past 2 days. Which one of the following is the most likely cause of this patient's increased pain?</li> <li>A) An inadequate initial morphine dose</li> <li>B) Addiction to morphine</li> <li>C) Pseudoaddiction to morphine</li> <li>D) Physical dependence on morphine</li> <li>E) Tolerance to morphine</li> </ul>	Pain. <b>10-131.</b> morphine tolerance. <b>ANS=E.</b> This patient has become tolerant to morphine. The intravenous dose should be a third of the oral dose, so the starting intravenous dose was adequate. Addiction is compulsive narcotic use. Pseudoaddiction is inadequate narcotic dosing that mimics addiction because of unrelieved pain. Physical dependence is seen with abrupt narcotic withdrawal.
<ul> <li>b) Forciate to indepinte</li> <li>07-042. +Pbs+Com. Which one of the following statements regarding palliative care services is most consistent with the National Consensus Project for Quality Palliative Care guidelines?</li> <li>A) Palliative care services are limited to patients with diseases that reduce life expectancy</li> <li>B) Palliative care begins at the onset of terminal disability from the diagnosed condition</li> <li>C) The unit of care comprises the patient and his or her family, as defined by the patient or surrogate</li> <li>D) Palliative care failures are directly related to deviating from the initial care plan</li> <li>E) Pain management should focus on modalities that will not promote addiction or dependency</li> </ul>	Palliative care. <b>07-042.</b> Palliative care services are provided to patients of all ages who have a chronic illness, condition, or injury that adversely affects daily functioning or reduces life expectancy. <b>ANS=C.</b> Ideally, palliative care begins when a condition is diagnosed and continues through cure or until death and family bereavement. The unit of care comprises the patient and his or her family as defined by the patient or surrogate. The care plan changes according to the evolving needs and preferences of the patient and the family, and may involve additional input from other specialists and caregivers. The care team should help patients and families understand any changes that occur in the condition and how they affect ongoing care and goals of treatment. The evolving care plan should be documented clearly throughout, including alternative options for settings and treatment, and should be conveyed to all involved. The management of pain should incorporate pharmacologic, nonpharmacologic, and complementary therapies. Barriers to effective pain management, such as fear of side effects, addiction, or respiratory depression, should be recognized and addressed. Because controlled substances are offen used for long-term symptom management, palliative care professionals need to work with policy makers, law enforcement representatives, and regulators to ensure that efforts to address drug abuse do not interfere with the care of patients who are in pain.
<ul> <li>08-142. +Car+Adm. A 23-year-old female sees you with a complaint of intermittent "irregular" heartbeats that occur once every week or two, but do not cause her to feel lightheaded or fatigued. They last only a few seconds and resolve spontaneously. She has never passed out, had chest pain, or had difficulty with exertion. She is otherwise healthy, and a physical examination is normal. Which one of the following cardiac studies should be ordered initially?</li> <li>A) 24-hour ambulatory EKG monitoring (Holter monitor)</li> <li>B) 30-day continuous closed-loop event recording</li> <li>C) Echocardiography</li> <li>D) An EKG</li> <li>E) Electrophysiologic studies</li> </ul>	Palpitations. <b>08-142</b> . <b>ANS=D</b> . The symptom of an increased or abnormal sensation of one's heartbeat is referred to as "palpitations." This condition is common to primary care, but is often benign. Commonly, these sensations have their basis in anxiety or panic. However, about 50% of those who complain of palpitations will be found to have a diagnosable cardiac condition. It is recommended to start the evaluation for cardiac causes with an EKG, which will assess the baseline rhythm and screen for signs of chamber enlargement, previous myocardial infarction, conduction disturbances, and a prolonged QT interval.
<ul> <li>08-115. +Gas+Adm. When considering a diagnosis of pancreatitis, amylase levels</li> <li>A) can help determine the severity of the disease</li> <li>B) are less likely to be elevated in alcoholics</li> <li>C) are more sensitive and specific than serum lipase levels</li> <li>D) are less likely to be affected by nonpancreatic conditions such as renal insufficiency</li> </ul>	Pancreatitis. <b>08-115.</b> Acute. ANS=B. Amylase and lipase levels are used to help make the diagnosis of acute pancreatitis. The serum lipase level is more specific and more sensitive than the amylase level. Amylase elevations can be seen with other abdominal illnesses, such as inflammation of the small bowel. Alcoholics with recurrent pancreatitis may have normal serum amylase levels; in such cases, serum lipase would be a better test. There are several scoring systems for the severity of pancreatitis, including the CT severity index, the APACHE II score, the Imrie Scoring System, and Ranson's Criteria, but none of these use serum amylase in their calculation. The elevation of serum amylase does not correspond well with the severity of the pancreatitis.
08-140. +Gas+Adm. Which one of the following is a risk factor for acute         Copyrighted Material. ITE Personal Notes. Not for Sale.         Page 117 of 170         receive."	Pancreatitis. <b>08-140.</b> Pancreatitis is most closely associated with gallstones and Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
pancreatitis?	excessive alcohol use. ANS=E. Gastroesophageal reflux disease, pyelonephritis,
A) Gastroesophageal reflux disease B) Intravenous drug abuse	drug abuse (other than alcohol), and angiotensin receptor blocker use are not risk
C) Angiotensin receptor blocker use	factors for the development of pancreatitis.
D) Pyelonephritis	
E) Gallstones	
<b>09-056.</b> +Gas+Adm. A 40-year-old male with acute pancreatitis has an alanine	Pancreatitis. 09-056. Gallstone pancreatitis, acute. ANS=A. In this setting, a
transaminase (ALT) level that is five times normal. Which one of the following is	threefold or greater elevation of alanine transaminase has a positive
the most likely diagnosis?	predictive value of 95% for acute gallstone pancreatitis. High levels of C-
A) Gallstone pancreatitis	reactive protein are associated with pancreatic necrosis. Hepatitis C is
B) Pancreatic necrosis C) Pancreatic pseudocyst	identified by antibody detection or polymerase chain reaction testing. Other markers are investigational.
D) Hepatitis C	markers are investigational.
E) Alcohol-induced pancreatitis	
07-098. +Psy+Mhe. Which one of the following is true regarding panic disorder?	Panic disorder. 07-098. ANS=A. Ninety percent of patients with panic disorder
A) It is associated with major depression B) It is more common in men than in	will have at least one other psychiatric disorder during their lifetime. Conditions
women C) It is best treated with anti-epileptic drugs D) It is exacerbated by	commonly reported include major depression, generalized anxiety disorder,
benzodiazepines E) Relapses are rare	agoraphobia, post-traumatic stress disorder, bipolar disorder, and alcohol abuse.
	The risk of suicidal behavior is likely to be increased among patients with
	<b>panic disorder and coexisting major depression</b> . Panic disorder is more common in women than in men. Anti-epileptic drugs are not indicated for panic
	disorder. Relapse occurs within 2 years in at least one-third of patients with the
	disorder. The most effective medications for panic disorder include SSRIs,
	SNRIs, and tricyclic antidepressants, as well as benzodiazepines.
09-020. +Psy+Mhe. An 18-year-old male comes to your office because of the	Panic disorder. 09-020. Panic disorder typically presents with the symptoms
recent onset of recurrent, unpredictable episodes of palpitations, sweating,	described, in late adolescence or early adulthood. The attacks are sporadic and last
dyspnea, gastrointestinal distress, dizziness, and paresthesias. His physical	10–60 minutes. Generalized anxiety disorder is more common, and common
examination is unremarkable except for moderate obesity. Laboratory findings, including a CBC, blood chemistry profile, and thyroid-stimulating hormone	symptoms include restlessness, fatigue, muscle tension, irritability, difficulty concentrating, and sleep disturbance. Patients with mitral valve prolapse usually
(TSH) level, reveal no abnormalities. The most likely diagnosis is A) mitral valve	have an abnormal cardiac examination. Pheochromocytoma is associated with
prolapse B) paroxysmal supraventricular tachycardia C) pheochromocytoma D)	headache and hypertension, and usually occurs in thin patients. Paroxysmal
generalized anxiety disorder E) panic disorder	supraventricular tachycardia is usually not associated with gastrointestinal distress
	or paresthesias.
<b>08-088.</b> +Pbc+Cfp. An asymptomatic 24-year-old white female comes to your	PAP. 08-088. Cervical lesion. ANS=C. The finding of a red, raised, friable lesion
office for a refill of oral contraceptive pills. A speculum examination is normal	on the cervix, or a well-demarcated cervical lesion, mandates a biopsy to exclude
with the exception of a slightly friable, welldemarcated, 1.4-cm raised lesion	cervical carcinoma, and treatment for chronic cervicitis should not be started until
involving a portion of the cervix. All previous Papanicolaou (Pap) tests have been	the biopsy results are available. A Papanicolaou test by itself is insufficient if
normal and she has no history of abnormal bleeding or leukorrhea. Which one of the following would be most appropriate at this point?	there is a grossly visible lesion, as false-negatives occur in 10%–50% of tests.
A) A Pap test, including a scraping of the erosion, with routine follow-up unless	
the patient becomes symptomatic	
B) A Pap test with follow-up in 3 months if results are normal	
C) A Pap test and a colposcopically directed biopsy	
D) A cone biopsy	
E) Topical antibiotic cream	
<b>09-097.</b> +Ref+Cfp. Typically, a high-grade squamous intraepithelial lesion (HSIL) of the cervix is treated with ablation or excision. In which one of the	PAP. <b>09-097.</b> High-grade squamous intraepithelial lesion. <b>ANS=A. Patients</b> attempting to conceive are not candidates for conservative management of
following can treatment be deferred?	cervical dysplasia, because treatment of progressive disease during
A) Adolescents B) Patients attempting to conceive C) Patients with a history of	pregnancy may be harmful. When possible, the problem should be resolved
three previous normal Papanicolaou smears D) Patients with a negative DNA test	before conception. Patients who have had three normal Papanicolaou (Pap) smears
for HPV E) Patients over the age of 70	in succession are candidates for lengthened screening intervals according to some
-	recommendations. However, once a problem is found, they should be managed
	the same as other cases. A negative test for HPV can be used to assess the risk
	of patients with atypical squamous cells of undetermined significance (ASC-
	US) or a low-grade squamous intraepithelial lesion (LSIL); it does not change
	the management of patients with a high-grade intraepithelial lesion (HSIL).
	<u>HPV infection is common and transient in most young women in their first</u> few years of sexual activity. With careful follow-up, they can be observed
	rather than treated for HSIL. Patients over 70 years of age no longer require
	screening if they have a long history of normal Pap smears, but when an
	abnormality is found it should be treated.
<b>07-173.</b> +Neu+Cel. Which one of the following is more consistent with	Parkinson's disease. 07-173. ANS=A. Tremor is characteristically an early
Parkinson's disease than with other variant parkinsonian syndromes? A) Tremor	manifestation of Parkinson's disease. It is less pronounced in other variant
at the onset of illness B) Frequent falls at the onset of illness C) Urinary urge	parkinsonian syndromes. Examples of these syndromes include multiple system
incontinence at the onset of illness D) Symmetric, bilateral motor manifestations	atrophy and progressive supranuclear palsy. Initial motor findings, including
at the onset of illness	tremor, are often unilateral in Parkinson's disease. Early falls, autonomic
	dysfunction, and symmetric motor findings are more typical of variant parkinsonian syndromes. Compared to Parkinson's disease, these syndromes
	respond poorly to levodopa.
09-216. +Neu+Cel. A 73-year-old male sees you for evaluation of a tremor. Based	Parkinson's disease. 09-216. ANS=C. Patients with Parkinson's disease should
on the history and examination, you suspect Parkinson's disease. Which one of	respond to an adequate therapeutic challenge of levodopa or a dopamine agonist.
the following would be most helpful for confirming the diagnosis? A) CT of the	The diagnosis of idiopathic Parkinson's disease is clinical, not radiographic.
brain B) MRI of the brain C) A positive response to levodopa D) Confirming that	Cardinal signs of Parkinson's disease include an asymmetric tremor onset and a
the tremor occurs with movement E) Confirming that the tremor had a symmetric onset	distal resting tremor of 3–6 Hz.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>10-074. +Pbs+Com.* Pay-for-performance (P4P) programs provide financial incentives for meeting predetermined quality targets. Contracts with major payors often include these programs. When considering P4P programs in such contracts, physicians should negotiate for which one of the following?</li> <li>A) Guidelines developed by academic medicine researchers</li> <li>B) Guidelines based on consensus opinions</li> <li>C) Mandatory physician participation</li> <li>D) Reporting of negative performance results to licensure boards</li> <li>E) Taking patient compliance into account when performing the evaluation</li> </ul>	Pay-for-performance. <b>10-074</b> . Pay-for-performance programs are becoming a critical part of the health care reform debate, and when the discussion began in 2005, over 100 such programs were in existence. <b>ANS=E. The objective is to reward physicians for achieving goals that should lead to improved patient outcomes.</b> In addition to evaluating clinical performance, many programs now also evaluate efficiency and information technology. However, many programs are not based on outcomes data, and have less desirable aspects such as inadequate incentive levels, withholding of payment, limited clinical focus, or unequal or unfair distribution of incentives. <b>Plans that exclude patient compliance as a factor can lead to withholding of physician incentives because of patient nonadherence, or to physicians selectively removing such patients from their panels. As the exact process is still being defined, all family physicians should be actively engaged in learning more about these programs. (1) the focus should be on improved quality of care; (2) physician-patient relationships should be supported; (3) evidence-based clinical guidelines should be utilized; (4) practicing physicians should be involved with the program design; (5) reliable, accurate, and scientifically valid data should be used; (6) physician should be provided with positive incentives; and (7) physician participation should be voluntary. Ensuring that patient adherence is included helps prevent conflicts between patients and their physicians. A pay-for-performance program. Negative results should not penalize the physician with regard to health plan credentialing, verification, or licensure.</b>
<ul> <li>10-047. +Pbs+Com.* Patient-centered medical home is a term used to describe which one of the following developments in medical care?</li> <li>A) A federally imposed restriction on family medicine's role in providing care</li> <li>B) A physician-led team of care providers taking responsibility for the quality and safety of an individual's health</li> <li>C) A "practice without walls" that provides primary care services in the homes of patients</li> <li>D) A small group of patients paying an annual fee to have a physician be available to them at all times</li> <li>E) Improving the dignity of care for nursing-home residents</li> <li>07-151. +Ref+Cfp. A 24-year-old female presents to your office with lower abdominal pain, dyspareunia, and a vaginal discharge. She has a history of multiple sex partners. Examination shows that the cervix is tender to manipulation and the uterus is tender and enlarged to the size expected at 6–8 weeks gestation. No adnexal masses are noted. She has no rebound tenderness on abdominal examination. Which one of the following indicates that the patient should be hospitalized for parenteral therapy?</li> <li>A) No improvement with 24 hours of outpatient antibiotics</li> <li>B) A previous history of pelvic inflammatory disease</li> <li>C) An elevated erythrocyte sedimentation rate and WBC count</li> <li>D) Laboratory confirmation of gonorrhea or chlamydial infection E)</li> </ul>	PCMH (Patient-centered medical home). <b>10-047.</b> Patient-centered medical home (PCMH) is a development in primary care that stresses a personal physician leading a multidisciplinary team that takes responsibility for integrating and coordinating an individual's care. <b>ANS=B.</b> Quality and safety are hallmarks of the PCMH, which stresses outcome-based and evidence-supported practices. This concept was originated by organizations in the field of pediatrics and was further developed by a collaboration of the major academies of primary care. There are institutions that accredit individual and group practices as fulfilling the role of a PCMH, which are now being compensated at a higher level by third-party payers, including Medicare. Pelvic inflammatory disease. <b>07-151. ANS=E.</b> The <b>criteria for hospitalizing</b> <b>patients</b> with pelvic inflammatory disease include <u>failure to improve after 3</u> <b>days of oral therapy, inability to tolerate antibiotics, suspicion that the</b> <b>patient will not comply with therapy, tubo-ovarian abscess, severe illness</b> <b>with high fever, vomiting, pain, pregnancy, and the underlying possibility of</b> <b>a surgical problem such as appendicitis</b> .
<ul> <li>E) Pregnancy</li> <li>10-124. +Ref+Cfp. The Centers for Disease Control and Prevention recommends empiric treatment of male sexual partners for which one of the following conditions?</li> <li>A) Vaginal candidiasis</li> <li>B) Vaginal warts</li> <li>C) Pelvic inflammatory disease</li> <li>D) Bacterial vaginosis</li> </ul>	Pelvic inflammatory disease. <b>10-124. ANS=C.</b> The promise of a reduction in the incidence and prevalence of sexually transmitted diseases through partner notification and treatment programs remains elusive, as evidence supporting this effect is scarce and inconclusive. What is clear is that treating sexual partners does reduce reinfection of the index patient. Programs such as contact notification, counseling and scheduling of appointments for evaluation of the partner, and expedited partner therapy (EPT), in which sexual contacts of infected patients are provided antibiotics delivered by the index patient without evaluation or counseling, have demonstrated only limited effectiveness; in the case of EPT this limited benefit has been shown only with trichomoniasis. <b>Because currently available evidence fails to demonstrate benefit from treating the male sexual contacts of women with vaginal candidiasis, vaginal warts, or bacterial vaginosis, the Centers for Disease Control and Prevention (CDC) states that treating the male partner is not indicated with these infections. In the case of pelvic inflammatory disease (PID), evaluation and treatment of males with a history of sexual contact with the patient during the 60 days preceding the onset of symptoms is imperative because of the high risk of reinfection. Current CDC guidelines recommend empiric treatment of these male contacts with antibiotic regimens effective against both chlamydial and gonococcal infection, regardless of the presumed etiology of the PID.</b>
<b>10-081.</b> +Nep+Adm. A 48-year-old female with type 2 diabetes has been hospitalized for 4 days with persistent fever. Her diabetes has been controlled with diet and glyburide (Micronase, DiaBeta). You saw her 2 weeks ago in the office with urinary frequency, urgency, and dysuria. At that time a urinalysis showed 25 WBCs/hpf, and a urine culture subsequently grew <i>Escherichia coli</i> sensitive to all antibiotics. She was placed on trimethoprim/sulfamethoxazole (Bactrim, Septra) empirically, and this was continued after the culture results were	Perinephric abscess. <b>10-081.</b> Perinephric abscess is an elusive diagnostic problem that is defined as a collection of pus in the tissue surrounding the kidney, generally in the space enclosed by Gerota's fascia. <b>ANS=E.</b> Mortality rates as high as 50% have been reported, usually from failure to diagnose the problem in a timely fashion. The difficulty in making the diagnosis can be attributed to the variable constellation of symptoms and the sometimes indolent course of this disease. <u>The diagnosis should be considered when a patient has fever and</u>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
reported. She improved over the next week, but then developed flank pain, fever	persistence of flank pain. Most perinephric infections occur as an extension
to 39.5°C (103.1°F), and nausea and vomiting. She was hospitalized and	of an ascending urinary tract infection, commonly in association with renal
intravenous cefazolin (Kefzol) and gentamicin were started while blood and urine	calculi or urinary tract obstruction. Patients with anatomic urinary tract
cultures were performed. This urine culture also grew <i>E. coli</i> sensitive to the	abnormalities or diabetes mellitus have an increased risk. Clinical features
current antibiotics. Her temperature has continued to spike to 39.5°C since	may be quite variable, and the most useful predictive factor in distinguishing
admission, without any change in her symptoms. Which one of the following would be most appropriate at this time?	uncomplicated pyelonephritis from perinephric abscess is persistence of fever for more than 4 days after initiation of antibiotic therapy. The radiologic study of
A) Add vancomycin (Vancocin) to the regimen	choice is CT. This can detect perirenal fluid, enlargement of the psoas muscle
B) Order a radionuclide renal scan	(both are highly suggestive of the diagnosis), and perirenal gas (which is
C) Order intravenous pyelography	diagnostic). The sensitivity and specificity of CT is significantly greater than that
D) Order a urine culture for tuberculosis	of either ultrasonography or intravenous pyelography. Drainage, either
E) Order CT of the abdomen	percutaneously or surgically, along with appropriate antibiotic coverage reduces both morbidity and mortality from this condition.
10-221. +Res+Euc. The mother of a 16-year-old male calls to report that her son	Peritonsillar abscess. 10-221. Trismus is almost universally present with
has a severe sore throat and has been running a fever of 102°F. Which one of the	peritonsillar abscess, while voice changes, otalgia, and odynophagia may or
following additional findings would be most specific for peritonsillar abscess?	may not be present. ANS=C. Pharyngotonsillitis and peritonsillar cellulitis may
A) A 1-day duration of illness B) Ear pain	also be associated with these complaints. Otalgia is common with peritonsillar abscess, otitis media, temporomandibular joint disorders, and a variety of other
C) Difficulty opening his mouth	conditions. Peritonsillar abscess is rarely found in patients who do not have at
D) Hoarseness	least a 3-day history of progressive sore throat.
E) Pain with swallowing	······································
09-238. +Int+Adm. A 12-year-old male who lives on a farm presents with lesions	Pernio, or chilblains. 09-238. ANS=D. This patient has pernio, or chilblains,
on his toes (shown in Figure). Which one of the following items from the	which is a localized inflammatory lesion of the skin, usually found in the
patient's history is relevant to the diagnosis? A) Recent tooth extraction and	extremities following exposure to nonfreezing cold temperatures. It is generally a
gingival surgery B) A family history of systemic lupus erythematosus C)	benign condition, and is not associated with any systemic diseases. These lesions
Recurrent fevers for the past 2 weeks D) Exposure to cold temperatures E) Vaccination of the sheep he is raising for a 4-H project	are red-purple plaques with deep swelling, and are accompanied by itching or burning. They are not associated with infections or connective tissue disease.
vaccination of the sheep he is failing for a 4-ri project	burning. They are not associated with infections of connective tissue disease.
and the second se	
and the second s	
All with a second second	
<b>09-093.</b> +Psy+Mhe. The parents of a 7-year-old male ask you to evaluate him	Personality disorder. 09-093. Oppositional defiant disorder. 09-093. ANS=D. This
because of increasing concerns about his temper tantrums over the past 9 months.	child meets the DSM-IV criteria for oppositional defiant disorder, defined as a
He often becomes angry and hostile, argues with them constantly, and refuses to	pattern of negativistic, hostile, and defiant behavior lasting at least 6 months. The
follow rules or directions. A major source of difficulty is his refusal to quit	child will often lose his or her temper, argue with adults, actively defy or refuse to
playing with his toys when he is asked to come to the dinner table. After the child	comply with adults' requests or rules, deliberately annoy people, blame others for
ignored repeated attempts to get him to come to the table a few nights ago, the	his or her mistakes or misbehavior, be easily annoyed by others, appear angry and
father became frustrated and told him he had lost his television privileges. In	resentful, or be spiteful or vindictive. At least four of these behaviors must be
response, the child became aggressive and destructive, breaking his toys and	present to meet the criteria for diagnosis. The disturbance in behavior must also
sweeping his dinner plate and glass of milk onto the floor. The parents describe many similar scenarios at bedtime, bath time, and when he is getting dressed.	cause clinically significant impairment in social, academic, or occupational functioning, and the behaviors must not occur exclusively during the course of a
They believe that their son is deliberately behaving this way to annoy them. This	psychotic or mood disorder. Meeting the criteria for conduct disorder excludes the
history is most consistent with A) attention-deficit/hyperactivity disorder B)	diagnosis of oppositional defiant disorder. If the individual is 18 years of age or
bipolar disorder C) conduct disorder D) oppositional defiant disorder E) normal	older and meets the criteria for antisocial personality disorder, then oppositional
childhood individualization	defiant disorder is excluded.
<b>10-184.</b> +Psy+Mhe.?* A 19-year-old female high-school student is brought to	Personality disorder. <b>10-184.</b> Borderline personality disorder. <b>ANS=E.</b> This
your office by a friend who is concerned about the patient having cut her wrists.	patient displays most of the criteria for borderline personality disorder. This is a
The patient denies that she was trying to kill herself, and states that she did this because she "int get so an gru" at her beyfind when she cought him	maladaptive personality type that is present from a young age, with a strong
because she "just got so angry" at her boyfriend when she caught him sending a text message to another woman. She denies having a depressed mood or	genetic predisposition. It is estimated to be present in 1% of the general population and involves equal numbers of men and women; women seek care
anhedonia, and blames her fluctuating mood on everyone who "keeps abandoning	more often, however, leading to a disproportionate number of women being
her," making her feel like she's "nothing." She admits that she has difficulty	identified by medical providers. <b>Borderline personality disorder is defined by</b>
controlling her anger. Her sleep quality and pattern appear normal, as does her	high emotional lability, intense anger, unstable relationships, frantic efforts
appetite. She denies hallucinations or delusions. The wounds	to avoid a feeling of abandonment, and an internal sense of emptiness. Nearly
on her wrists appear superficial and there is evidence of previous cutting behavior	every patient with this disorder engages in self-injurious behavior (cutting,
on her forearms. Her vital signs are stable. Which one of the following would be	suicidal gestures and attempts), and about 1 in 10 patients eventually succeeds in
most beneficial for this patient?	committing suicide. However, 90% of patients improve despite having made
A) Clonazepam (Klonopin) P) Elucycting (Prozec)	numerous suicide threats. Suicidal gestures and attempts peak when patients are in
B) Fluoxetine (Prozac) C) Quetiapine (Seroquel)	their early 20s, but completed suicide is most common after age 30 and usually occurs in patients who fail to recover after many attempts at treatment. In contrast,
D) Inpatient psychiatric admission	suicidal actions such as impulsive overdoses or superficial cutting, most often
E) Psychotherapy	seen in younger patients, do not usually carry a high short-term risk, and serve to
	communicate distress. Inpatient hospitalization may be an appropriate treatment
	option if the person is experiencing extreme difficulties in living and daily

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	functioning, and pharmacotherapy may offer a mild degree of symptom relief. While these modalities have a role in certain patients, <u>psychotherapy is</u> <u>considered the mainstay of therapy, especially in a relatively stable patient</u> such as the one described.
<b>07-131.</b> +Res+Com. An 18-year-old white female who works at a day-care center sees you because of a cough. Three weeks ago she developed cold symptoms that have progressed to paroxysms of coughing with post-tussive emesis. She reports that there are children at the day-care center who have coughs and colds, but none have been diagnosed with pertussis. She has always been healthy, has no known drug allergies, and had all of the routine childhood immunizations. A polymerase chain reaction (PCR) is negative for pertussis and a chest film appears normal. Which one of the following would be most appropriate at this point? A) Tetanus diphtheria acellular pertussis (TDaP) vaccine B) Albuterol C) Promethazine D) Azithromycin (Zithromax) E) Prednisolone (Orapred)	Pertussis. <b>07-131</b> . infection. <b>ANS=D</b> . This person works in an environment where pertussis may be contracted from unvaccinated or incompletely vaccinated individuals. According to the Centers for Disease Control and Prevention (CDC) this patient has "clinical" pertussis, defined as an acute cough for 14 days with no other apparent cause, plus one of the following: paroxysmal cough, post-tussive emesis, or inspiratory "whooping." A negative PCR does not exclude clinical pertussis. The CDC recommends treating clinical cases with erythromycin, azithromycin, or clarithromycin. Because pertussis is highly contagious, antibiotics are recommended to control outbreaks. The effectiveness of symptom-reducing treatments (e.g., antihistamines, corticosteroids, B-agonists, or immunoglobulins) is unclear. A systematic review showed little evidence to justify their use for pertussis. The CDC's Advisory Committee on Immunization Practices no longer recommends the Td booster, and Td would not boost her immunity to pertussis. Because of the waning of pertussis immunity after routine childhood immunizations, the newer tetanus toxoid, reduced diphtheria toxoid and acellular pertussis (Tdap) vaccine is recommended for adolescents. Although it is unclear whether this patient needs Tdap because of boosted immunity resulting from clinical pertussis, immunization would not be the first treatment in this case.
<ul> <li>09-169. +Pbc+Com. In the United States, the number of deaths has increased in recent years for which one of the following vaccine-preventable illnesses?</li> <li>A) Tetanus</li> <li>B) Hepatitis C</li> <li>C) Rubella</li> <li>D) Pertussis</li> <li>E) West Nile virus</li> </ul>	Pertussis. <b>09-169. ANS=D.</b> In the United States, deaths from pertussis increased from 4 deaths in 1996 to 17 deaths in 2001, and a total of 56 deaths from 2001 to 2003. Immunity has decreased in previously vaccinated adolescents and adults, and now they are a reservoir for infection. Tdap vaccine is recommended as a single booster for patients age 19–65, and those between the ages of 11 and 18 years should receive Tdap rather than a Td booster. The Tdap vaccine protects against pertussis, in addition to tetanus and diphtheria. Tetanus and rubella deaths are not increasing. There are no vaccines for hepatitis C or West Nile virus.
<ul> <li>08-047. +Pbc+Cel. Many of the changes that occur as part of aging affect pharmacokinetics. Which one of the following is INCREASED in geriatric patients?</li> <li>A) Drug absorption</li> <li>B) Glomerular filtration rate</li> <li>C) Lean body mass</li> <li>D) Volume of distribution of water-soluble compounds such as digoxin</li> <li>E) Percentage of body fat</li> </ul>	Pharmacology, aging. <b>08-047</b> . The physiologic changes that accompany aging result in altered pharmacokinetics. <b>ANS=E</b> . Drug distribution is one important factor. In older persons, there is a relative increase in body fat and a relative decrease in lean body mass, which causes increased distribution of fat-soluble drugs such as diazepam. This also increases the elimination half-life of such medications. The volume of distribution of water-soluble compounds such as digoxin is decreased in older patients, which means a smaller dose is required to reach a given target plasma concentration. There is a predictable reduction in glomerular filtration rate and tubular secretion with aging, which causes decreased clearance of medications in the geriatric population. The absorption of drugs changes little with advancing age. All of these changes are important factors in choosing dosages of medications in the elderly population.
<ul> <li>10-120P. +Non+Cel.&gt;L Which one of the pharmacologic effects of transdermal medications changes the LEAST with aging?</li> <li>A) Liver metabolism of the drugs</li> <li>B) Renal excretion of the drugs</li> <li>C) Distribution within the body</li> <li>D) Transdermal absorption of the drugs</li> </ul>	Pharmacology, aging. <b>10-120. ANS=D.</b> Transdermal absorption of medications changes very little with age. Due to an increase in the ratio of fat to lean body weight, the volume of distribution changes with aging, especially for fat-soluble drugs. Both liver metabolism and renal excretion of drugs decrease with aging, increasing serum concentrations.
<ul> <li>10-003. +Non+Adm. &gt;L* Which one of the following is a physiologic difference between males and females that can affect the pharmacokinetics of medications with a narrow therapeutic index?</li> <li>A) A consistently higher glomerular filtration rate in women</li> <li>B) The typically higher BMI in women</li> <li>C) Smaller fat stores in women</li> <li>D) Greater gastric acid secretion in women</li> <li>E) Slower gastrointestinal transit times in women</li> </ul>	Pharmacology, sexes. <b>10-003. ANS=E.</b> There are key physiologic differences between women and men that can have important implications for drug activity. Gastrointestinal transit times are slower in women than in men, which can diminish the absorption of medications such as metoprolol, theophylline, and verapamil. In addition, women should wait longer after eating before taking medications that should be administered on an empty stomach, such as ampicillin, captopril, levothyroxine, loratadine, and tetracycline. Women also secrete less gastric acid than men, so they may need to drink an acidic beverage to aid in absorption of medications that require an acidic environment, such as ketoconazole. Women usually have lower BMIs than men, and may need smaller loading or bolus dosages of medications to avoid unnecessary adverse reactions. Women typically have higher fat stores than men, so lipophilic drugs such as benzodiazepines and neuromuscular blockers have a longer duration of action. Women also have lower glomerular filtration rates than men, resulting in slower clearance of medications that are eliminated renally, such as digoxin and methotrexate.
<b>07-166.</b> +Pbc+Cca. You see a 6-year-old male who has had a sore throat since yesterday. He has not had a fever and is currently afebrile. He complains of a slight runny nose and cough. On examination you note a tonsillar exudate and anterior cervical lymphadenopathy. A rapid antigen detection test for group A B-hemolytic streptococci is negative. The most appropriate course of action at this point is to A) perform no further tests and treat symptomatically B) obtain a throat culture and base antibiotic treatment on the results C) obtain a throat culture and begin empiric antibiotics at this visit D) perform no further testing and treat empirically with antibiotics E) test for mononucleosis and treat symptomatically	Pharyngitis. 07-166. streptococcal Infection; ANS=B. A rapid antigen detection test (RADT) was performed in this patient because he exhibited two criteria for streptococcal pharyngitis. In children and adolescents, a backup throat culture is still recommended because the sensitivity of the RADT is only in the 80%–90% range. Guidelines <u>do not recommend empiric treatment for pediatric patients</u> , but do recommend bacteriologic confirmation of group A B-hemolytic <u>streptococcal pharyngitis by rapid antigen detection testing or throat culture</u> <u>prior to initiation of treatment</u> . Centor criteria: include tonsillar exudates, tender anterior cervical lymphadenopathy, absence of cough, and history of fever. The presence of Mario A. Imang. M.D. B.S.F.E. "Issue died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	three or four of these criteria has a positive predictive value of $40\%$ - $60\%$ , and the absence of three or four of these criteria has a negative predictive value of $80\%$ . Patients with four positive criteria should be treated with antibiotics, those with three positive criteria should be tested and treated if positive, and those with $0-1$ positive criteria should be treated with analgesics and supportive care only.
<ul> <li>09-052. +Res+Adm. A healthy 24-year-old male presents with a sore throat of 2 days' duration. He reports mild congestion and a dry cough. On examination, his temperature is 37.2°C (99.0°F). His pharynx is red without exudates, and there are no anterior cervical nodes. His tympanic membranes are normal, and his chest is clear. You would do which one of the following?</li> <li>A) Treat with analgesics and supportive care</li> <li>B) Treat with azithromycin (Zithromax)</li> <li>C) Perform a throat culture and begin treatment with penicillin</li> <li>D) Perform a rapid strep test</li> </ul>	Pharyngitis. 09-052. Respiratory disease, acute. ANS=A. The Centers for Disease Control and Prevention (CDC) assembled a panel of national health experts to develop evidence-based guidelines for evaluating and treating adults with acute respiratory disease. According to these guidelines, the most reliable clinical predictors of streptococcal pharyngitis are the Centor criteria. These include tonsillar exudates, tender anterior cervical lymphadenopathy, absence of cough, and history of fever. The presence of three or four of these criteria has a positive predictive value of 40%–60%, and the absence of three or four of these criteria should be treated with antibiotics, those with three positive criteria should be treated with antibiotics, those with 0–1 positive criteria should be treated with analgesics and supportive care only. This patient has only one of the Centor criteria, and according to the panel should not be tested or treated with Mibiotics.
<ul> <li>10-038. +Res+Cca.* A 7-year-old male presents with a fever of 38.5°C (101.3°F), a sore throat, tonsillar inflammation, and tender anterior cervical adenopathy. He does not have a cough or a runny nose. His younger sister was treated for streptococcal pharyngitis last week and his mother would like him to be treated for streptococcal infection. Which one of the following is true concerning this situation?</li> <li>A) Empiric antibiotic treatment for streptococcal pharyngitis is warranted</li> <li>B) The chance of this patient having a positive rapid antigen detection test for <i>Streptococcus</i> is &lt;50%</li> <li>C) There is a generalized consensus among the various national guidelines for management of pharyngitis</li> <li>D) The patient should have a tonsillectomy when he recovers from this infection</li> <li>E) The family dog should be treated for streptococcal infection</li> </ul>	Pharyngitis. <b>10-038. ANS=A.</b> The patient has a score of 5 under the Modified Centor scoring system for management of sore throat. Patients with a score ≥4 are at highest risk (at least 50%) of having group A B-hemolytic streptococcal (GABHS) pharyngitis, and empiric treatment with antibiotics is warranted. Various national and international organizations disagree about the best way to manage pharyngitis, with no consensus as to when or how to test for GABHS and who should receive treatment. The minimal benefit seen with tonsillectomy in reducing the incidence of recurrent GABHS pharyngitis does not justify the risks or cost of surgery. Treatment of pets for the prevention of GABHS infection has proven ineffective.
<b>09-055.</b> +Mus+Adm. You test a patient's nuscles and find that his maximum performance consists of the ability to move with gravity neutralized. This qualifies as which grade of muscle strength, on a scale of 5? A) 0 B) 1 C) 2 D) 3 E) 4	Physical Exam. 09-055. Muscle strength. ANS=C. Muscle strength is scored on a scale of 0 to 5. The inability to contract a muscle is scored as 0. Contraction without movement constitutes grade 1 strength. Movement with the effect of gravity neutralized is grade 2 strength, while movement against gravity only is grade 3 strength. Movement against gravity plus some additional resistance indicates grade 4 strength. Normal, or grade 5, strength is demonstrated by movement against substantial resistance.
<b>07-207.</b> +Mus+Euc. A 16-year-old high-school basketball player is struck on the end of her long finger by the ball. Her finger was fully extended and the result was a forced flexion injury of the proximal interphalangeal (PIP) joint. She is unable to actively extend the PIP joint, although passive extension is possible. She is tender over the dorsal aspect of the middle phalanx. Radiographs are negative. Which one of the following is true regarding this injury? A) Immediate referral to an orthopedist is indicated B) Buddy taping to the adjacent ring finger is the only treatment necessary C) Any splint (fashioned aluminum splint, stack splint, ring splint) would be adequate D) Splinting should be continued for 2 weeks E) A boutonniere deformity may result	PIP (proximal interphalangeal) joint injury. <b>07-207.</b> Joint injury. Injury to the central extensor slip can occur when the proximal interphalangeal (PIP) joint is forcibly flexed while the digit is actively extended. <b>ANS=E</b> . The injury is evaluated by holding the joint in a position of 15°–30° of flexion. The patient will not be able to actively extend the joint, but passive extension should be possible. There will be tenderness over the dorsal aspect of the middle phalanx. Delay or improper treatment may result in a boutonniere deformity, which usually develops over several weeks but can occasionally develop acutely. <b>Treatment consists of splinting the PIP joint in full extension for 6 weeks.</b> The stack splint should only be used to treat injuries of the distal interphalangeal joint.
	Boutonniere Deformity
<ul> <li>10-196. +Ref+Mac. Ultrasonography shows a complete placenta previa in a 23-year-old primigravida at 20 weeks gestation. She has not experienced any vaginal bleeding. Which one of the following would be the most appropriate management for this patient?</li> <li>A) Schedule a cesarean section at 38 weeks gestation</li> <li>B) Perform a digital examination to assess for cervical dilation</li> <li>C) Administer corticosteroids to promote fetal lung maturity</li> <li>D) Order MRI to rule out placenta accreta</li> <li>E) Repeat the ultrasonography at 28 weeks gestation</li> </ul>	Placenta previa. <b>10-196.</b> Placenta previa is a relatively common incidental finding on second trimester ultrasonography. <b>ANS=E.</b> Approximately 4% of ultrasound studies at 20–24 weeks gestation show a placenta previa, but it occurs in only 0.4% of pregnancies at term, because of migration of the placenta away from the lower uterine segment. Therefore, in the absence of bleeding, the most appropriate management is to repeat the ultrasonography in the third trimester (SOR A). Because many placenta previas resolve close to term, a decision regarding mode of delivery should not be made until after ultrasonography is performed at 36 weeks gestation. Digital cervical examinations should not be performed in patients with known placenta previa because of the risk of precipitating bleeding. Corticosteroids are indicated at 24–34 weeks gestation if the patient has bleeding, given the higher risk of premature birth. In patients with a history of previous cesarean delivery who have a placenta previa at the site of the previous incision, a color-flow Doppler study should be performed to evaluate for a potential placenta accreta. In such cases, MRI may be helpful to confirm the diagnosis.

and fetal distress. Her first pregnancy was uncomplicated, with a vaginal delivery at term. Which one of the following is the most likely diagnosis?tA) Uterine rupturefB) Vasa previafC) Placenta previasD) Placental abruptionaE) Cervical cancerw	Document copy for the sole personal use of Dr. Mario Alberto Jimenez premature birth. The condition described here is placental abruption (separation of the placenta from the uterine wall before delivery). There are several causes of vaginal bleeding that can occur in late pregnancy that might have consequences for the mother, but not necessarily for the fetus, such as cervicitis, cervical polyps, or cervical cancer. Even advanced cervical cancer would be unlikely to cause the syndrome described here. The other conditions listed may bring harm to the fetus and/or the mother. Uterine rupture usually occurs during active labor in women with a history of a previous cesarean section or with other predisposing factors, such as trauma or obstructed labor. Vaginal bleeding is an unreliable sign of uterine rupture and is present in only about 10% of cases. Fetal distress or demise is the most reliable presenting clinical symptom. Vasa previa (the velamentous
i i i s d f r t t s	insertion of the umbilical cord into the membranes in the lower uterine segment) is typically manifested by the onset of hemorrhage at the time of amniotomy or by spontaneous rupture of the membranes. There are no prior maternal symptoms of distress. The hemorrhage is actually fetal blood, and exsanguination can occur rapidly. Placenta previa (placental implantation that overlies or is within 2 cm of the internal cervical os) is clinically manifested as vaginal bleeding in the late second or third trimester, often after sexual intercourse. The bleeding is typically painless, unless labor or placental abruption occurs.
It has not responded to his usual treatment, and you treat him with an intra- articular corticosteroid injection. It is mid-November, and he tells you that he has	Pneumococcal and influenza vaccines. <b>08-181. ANS=E.</b> Low-dose topical, oral, nasal, and intra-articular corticosteroids are not immunosuppressive and do not contraindicate administration of any vaccine. <u>Influenza vaccine and</u> <u>pneumococcal vaccine can be given together. Neither is a live vaccine.</u>
splenectomy after a motor vehicle accident. Which one of the following should hereceive after the surgery?A) Pneumococcal vaccine and meningococcal vaccine	Pneumococcal and meningococcal. <b>08-188.</b> Vaccines. Pneumococcal and meningococcal vaccines are currently recommended for patients with asplenia. <b>ANS=A.</b> <i>Haemophilus influenzae</i> type b (Hib) vaccine can be considered as well. A Td booster or Tdap also should be considered. Emergency splenectomy for trauma is an indication for vaccination, although splenic remnants may persist.
of pneumococcal polysaccharide vaccine in children?	Pneumococcal polysaccharide vaccine. 08-099. ANS=D. Patients with <u>chronic</u> illness, diabetes mellitus, cerebrospinal fluid leaks, chronic bronchopulmonary dysplasia, cyanotic congenital heart disease, or cochlear implants should receive one dose of pneumococcal polysaccharide vaccine after 2 years of age, and at least 2 months after the last dose of pneumococcal conjugate vaccine. Revaccination with polysaccharide vaccine is not recommended for these patients. Individuals with sickle cell disease, those with anatomic or functional asplenia, immunocompromised persons with renal failure or leukemia, and <u>HIV-infected persons</u> should receive polysaccharide vaccine on this schedule and should be revaccinated at least 3 years after the first dose.
09-040. +Res+Adm. You would recommend pneumococcal vaccine for which one of the following? A) A 20-year-old male who smokes 1 pack of cigarettes daily B) A 52-year-old male with type 2 diabetes mellitus who received pneumococcal vaccine 6 years ago C) A 60-year-old male who is a long-term resident of a nursing home because of a previous stroke, and who received pneumococcal vaccine at age 54 D) A 62-year-old male with chronic renal failure who received pneumococcal vaccine at age 50 and age 55 E) A 71-year-old male with no medical problems who received pneumococcal vaccine at age 65. Note: Immunocompetent pts who should receive 1 shot before 65 and then until 65: Chronic heart disease (excluding hypertension), Chronic lung disease, Diabetes mellitus, Cerebrospinal fluid leaks, Cochlear implant, Alcoholism, Chronic liver disease including cirrhosis, Cigarette smoking.Immunovax 23)08-010. +Pbc+Com. The pneumococcal polyvalent vaccine (Pneumovax 23) would be recommended for which one of the following patients? A) A 1-year-old patient as a routine immunization B) An 18-month-old patient recently diagnosed with HIV infection D) A healthy 49-year-old patient E) A healthy 75-year-old patient who received a dose 8 years agoImage 50 More and Se S S S S S S S S S S S S S S S S S S	Pneumococcal polysaccharide vaccine. <b>09-040.</b> In 10/08 the Advisory Committee on Immunization Practices (ACIP) of the Centers for Disease Control and Prevention recommended adding cigarette smoking to the list of high-risk conditions that are indications for the 23-valent pneumococcal polysaccharide vaccine. <b>1)</b> All persons between the ages of <b>19</b> and <b>64</b> who smoke should receive this vaccine. <b>2)</b> One-time revaccination after <b>5</b> years is recommended for persons with chronic renal failure, asplenia (functional or anatomic), or other immunocompromising conditions. The patient with chronic renal failure in this question has already received two immunizations. The diabetic patient and the nursing-home resident have both received one immunization and should not receive a second dose until age <b>65.</b> The 71-year-old has already been immunized after age <b>65</b> , and a repeat immunization is not recommended. Pneumococcal polyvalent vaccine. <b>08-010.</b> Recommendations. <b>ANS=C.</b> The Advisory Committee on Immunization Practices (ACIP) recommends routine pneumococcal vaccination for healthy patients starting at age <b>65</b> years. Patients over 2 years of age with various chronic diseases and patients who are immunocompromised also should be vaccinated (SOR A). Children less than 2 years of age should receive the 7-valent conjugate vaccine as a part of their routine well child vaccinations at 2, 4, 6, and 12 months of age. There is a lack of data concerning the safety of the vaccine when given three or more times.
week history of increasing dyspnea, cough, and poor feeding. The child appears	Pneumonia, Chlamydial. <b>09-145. ANS=B.</b> Chlamydial pneumonia is usually seen in infants 3–16 weeks of age, and they frequently have been sick for several weeks. The infant appears nontoxic and is afebrile, but is tachypneic with a Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
examination reveals tachypnea and rales. A chest film shows hyperinflation and diffuse interstitial infiltrates. A WBC count reveals eosinophilia. What is the most likely etiologic agent? A) <i>Staphylococcus</i> species B) <i>Chlamydia trachomatis</i> C) Respiratory syncytial virus D) Parainfluenza virus	prominent cough. Physical examination reveals diffuse rales with few wheezes. Conjunctivitis is present in about 50% of cases. The chest film shows hyperinflation and diffuse interstitial or patchy infiltrates. Staphylococcal pneumonia has a sudden onset. The infant appears very ill and has a fever. At the time of onset there may be an expiratory wheeze simulating bronchiolitis. Signs of abdominal distress, tachypnea, dyspnea, and localized or diffuse bronchopneumonia or lobar disease may be present. The WBC count shows a prominent leukocytosis. Respiratory syncytial infections start with rhinorrhea and pharyngitis, followed in 1–3 days by cough and wheezing. Auscultation reveals diffuse rhonchi, fine rales, and wheezes. The chest film is often normal. If the illness progresses, cough and wheezing increase, air hunger and intercostal retractions develop, and evidence of hyperexpansion of the chest is seen. In some infants, the course of the illness may be similar to that of pneumonia. Rash or conjunctivitis may occur occasionally, and fever is an inconsistent sign. The WBC count is normal or elevated, and the differential may be normal or shifted either to the right or left. Chlamydial infections may be differentiated from respiratory syncytial infections by a history of conjunctivitis and a subacute onset. Coughing is prominent, but wheezing is not. There may also be eosinophilia. Fever is usually absent.
<b>07-065.</b> +Res+Com+Adm. A 60-year-old male who has mild COPD comes to your office for evaluation of cough, fever, fatigue, mild but increasing shortness of breath, and occasional pain with deep inspiration. Symptoms have been present for 3–4 days, and his cough is becoming more productive. On examination of the chest you note crackles and rales, dullness to percussion, and tactile fremitus over the right posterior chest. His respiratory rate is 18/min, and his temperature is 38.1E C (100.5E F). You suspect community-acquired pneumonia. Which one of the following is true regarding this patient's condition? A) A chest radiograph is indicated B) Sputum samples have a high diagnostic yield for bacterial pneumonia C) Blood cultures are indicated prior to starting antibacterial drug therapy D) The preferred antibiotic for initial empiric management is amoxicillin or trimethoprim/sulfamethoxazole (Bactrim, Septra) E) Treatment should be started in a hospital rather than an ambulatory setting. http://www.uptodate.com/contents/calculator-community-acquired-pneumonia- severity-index-psi-for-adults Calculator: Community-Acquired Pneumonia Severity Index (PSI) for Adults Sex: M (0 points) + F (-10 points) Demographic factors: Age (1 point for each year) + Nursing home resident (10 points) + Neoplastic disease (30 points) + Liver disease (20 points) + Congestive heart failure (10 points) + Cerebrovascular disease (10 points) + Respiratory rate >= 30/minute (20 points) + Systolic blood pressure < 90 mmHg (20 points) + Temperature < 35 degrees C or >= 40 degrees C (15 points) + Pulse >= 125/minute (10 points). Laboratory and radiographic findings: Arterial pH < 7.35 (30 points) + Blood urea nitrogen >= 30 mg/dL (11 mmol/L) (20 points) + Sodium < 130 mEq/L (20 points) + Glucose >= 250 mg/dL (14 mmol/L) (10 points) + Hematocrit < 30 percent (10 points) + Partial pressure of arterial oxygen < 60 mmHg or oxygen saturation < 90% (10 points) + Pleural effusion (10 points).	Pneumonia, community-acquired. 07-065. ANS=A. American Thoracic Society (ATS) guidelines for managing community-acquired pneumonia (CAP) recommend that "all patients suspected of CAP should receive chest radiography to establish the diagnosis and identify complications (pleural effusion, multilobar disease)." Sputum samples are adequate in only 52.3% of patients with CAP, and only 44% of those samples contain pathogens. In a study of CAP in 19 Canadian hospitals over a 6-month period, positive blood cultures were obtained in only 5.2%–6.2% of patients, including those with the most severe disease. Based on these findings, other researchers concluded that a positive blood culture had no correlation with the severity of illness or outcome. ATS guidelines recommend two sets of blood cultures for hospitalized patients, but this is not necessary for outpatient diagnosis. <u>Initial treatment of CAP is empiric, and macrolides, fluoroquinolones, or doxycycline should be used in most patients, although fluoroquinolones should be used sparingly because of increasing resistance concerns. Amoxicillin/clavulanate and B-lactams are alternatives. The Pneumonia Severity Index was developed to assist physicians in identifying patients who are at higher risk of complications and are more likely to benefit from hospitalization. Based on these guidelines, this patient falls into a low-risk category and can be treated as an outpatient. PSI calculator Interpretation: 0-50 Points : Class II 0.6% Mortality 51-70 Points : Class II 0.6% Mortality 51-70 Points : Class II 0.9% Mortality 131-395 Points : Class IV 9.3% Mortality 131-395 Points : Class V 27.0% Mortality</u>
<ul> <li>07-147. +Res+Com. Which one of the following is true concerning community-acquired pneumonia?</li> <li>A) The absence of a pulmonary infiltrate on a chest film rules out pneumonia</li> <li>B) Intravenous antibiotics are always more effective than oral antibiotics in treating uncomplicated pneumonia</li> <li>C) In patients with uncomplicated pneumonia, the risk of relapse is greatest on the day prior to planned discharge</li> <li>D) Hypoxemia is rarely an indication for hospitalization</li> <li>E) It takes several weeks for all symptoms of pneumonia to resolve</li> </ul>	Pneumonia, community-acquired. <b>07-147. ANS=E.</b> One week after their initial presentation with pneumonia, 80% of patients still have fatigue and cough. It usually takes several weeks for all manifestations to resolve and the patient to return to normal. According to the latest American Thoracic Society (ATS) guidelines for the diagnosis and treatment of adults with community-acquired pneumonia (CAP), <u>all patients with suspected CAP should have a chest</u> radiograph to establish the diagnosis and identify complications (pleural effusion, multilobar disease). Chest radiography performed early in the course of the disease may be negative, however. Intravenous antibiotics are frequently no better than oral antibiotics in patients with uncomplicated pneumonia. The risk of relapse or worsening is greatest on the day of admission and goes down progressively after that. <u>All patients with hypoxemia should be hospitalized</u> .
<ul> <li>07-177. +Res+Com. A 68-year-old previously healthy male presents to the emergency department with fever and rigors, chills, cough, fatigue, dyspnea, and pleuritic chest pain. He has no chronic medical problems and does not smoke. A chest film shows a lobar consolidation. The most likely bacterial cause of this problem is</li> <li>A) Staphylococcus aureus</li> <li>B) Streptococcus pneumoniae</li> <li>C) Legionella</li> <li>D) Mycoplasma pneumoniae</li> <li>E) Chlamydia</li> <li>08-190. +Rep+Adm. A 32-year-old African-American female presents with a 3-</li> </ul>	Pneumonia, community-acquired. 07-177. ANS=B. This is a classic presentation for community-acquired pneumonia (CAP). The classic symptom presentation includes cough, fever, pleuritic chest pain, myalgias, dyspnea, malaise, and fatigue. Typical pneumonia is usually caused by Streptococcus pneumoniae, with 60%-70% of typical cases being due to this organism. Atypical pneumonia is usually caused by Mycoplasma, Chlamydia, Legionella, adenovirus, or influenza virus. Age is the best differentiating factor between typical and atypical pneumonia, as older persons and the very young are more likely to have typical etiologies and young adults are more likely to have atypical etiologies.         Pneumonia, community-acquired. 08-190. ANS=D. For previously healthy
day history of fever, cough, and shortness of breath. She has been healthy Copyrighted Material. ITE Personal Notes. Not for Sale. Page 124 of 170	patients with community-acquired pneumonia and no risk factors for drug

Mario's ITE database V2010 007	Desumant capy for the cale personal use of Dr. Marie Alberta Jimanaz
Mario's ITE database V2010.007 otherwise, except for a sinus infection 2 months ago treated with amoxicillin. She	Document copy for the sole personal use of Dr. Mario Alberto Jimenez resistance, a macrolide such as azithromycin is the preferred treatment (SOR A).
does not appear toxic. A chest radiograph reveals an infiltrate in the right lower	Doxycycline is also acceptable (SOR C). Patients who have been treated with
lobe, consistent with pneumonia. Which one of the following would be the best	antibiotics within the previous 3 months should be treated with a respiratory
choice for antibiotic treatment?	fluoroquinolone (moxifloxacin, gemifloxacin, or levofloxacin) (SOR A). A B-
A) High-dose amoxicillin	lactam plus a macrolide is also an alternative (SOR A). The antibiotic chosen
B) Azithromycin (Zithromax)	should be from a different class than the one used for the previous infection.
C) Doxycycline	These alternative treatments are also recommended for those with comorbidities
D) Levofloxacin (Levaquin)	such as chronic heart, lung, liver, or renal disease; diabetes mellitus; alcoholism;
E) Cefuroxime axetil (Ceftin)	malignancies; asplenia; immunosuppressing conditions or use of
	immunosuppressing drugs; or other risk factors for drug-resistant <i>Streptococcus</i>
<b>09-083.</b> +Res+Adm. The preferred antibiotic treatment for community-acquired	<i>pneumoniae</i> infection (SOR A). Pneumonia, community-acquired. <b>09-083. ANS=C.</b> In a young adult with
pneumonia in a young adult in the ambulatory setting is	community-acquired pneumonia who is not sick enough to be hospitalized, the
A) trimethoprim/sulfamethoxazole (Bactrim, Septra)	current recommendation is to empirically treat with a macrolide antibiotic such as
B) cephalexin (Keflex)	azithromycin. This covers the atypical organism Mycoplasma pneumoniae, which
C) azithromycin (Zithromax)	is one of the most common causes of community-acquired pneumonia. Certain
D) penicillin V	fluoroquinolones such as levofloxacin also cover atypical causes, but
E) ciprofloxacin (Cipro)	ciprofloxacin does not. The other antibiotics listed are also ineffective against
	Mycoplasma.
<b>08-177.</b> +Res+Adm. A 60-year-old female is admitted to the hospital with	Pneumonia, health care-associated pneumonia. <b>08-177.</b> This patient has a
pneumonia 1 week after her discharge following elective colorectal surgery. Her	significant pneumonia that requires the initiation of empiric antibiotics. <b>ANS=B.</b>
initial stay was 5 days and she had no complications. She had no signs of infection until 2 days ago when she developed a temperature of 39.1°C (102.4°F), a cough	It is important to remember that because this patient was recently in the hospital, the usual coverage for community-acquired pneumonia is not adequate. Health
with yellow sputum, and hypoxia. She has no abdominal pain or diarrhea. Her	care-associated pneumonia is more likely to involve severe pathogens such as
pulse rate is slightly elevated to 96 beats/min, and her blood pressure is	Pseudomonas aeruginosa, Klebsiella pneumoniae, and Acinetobacter species.
unchanged from baseline. A chest radiograph confirms a left lingular infiltrate.	Methicillin-resistant <i>Staphylococcus aureus</i> also is a consideration, depending on
Methicillin-resistant <i>Staphylococcus</i> pneumonia is rare in this institution. Of the	local prevalence. Of the antibiotic regimens listed, ceftazidime and gentamicin is
following antibiotic regimens, which one would be the best initial treatment for	the only choice that covers these organisms.
this patient?	Uptodate: Healthcare-associated pneumonia (HCAP) is defined as pneumonia that
A) Ampicillin/sulbactam (Unasyn)	occurs in a non-hospitalized patient with extensive healthcare contact, as defined
B) Ceftazidime sodium (Fortaz) and gentamicin	by one or more of the following: Intravenous therapy, wound care, or intravenous
C) Ceftriaxone (Rocephin) and azithromycin (Zithromax)	chemotherapy within the prior 30 daysResidence in a nursing home or other long-
D) Clarithromycin (Biaxin) E) Levofloxacin (Levaquin)	term care facilityHospitalization in an acute care hospital for two or more days within the prior 90 daysAttendance at a hospital or hemodialysis clinic within the
L) Levonoxachi (Levaquin)	prior 30 days.
Known MDR risk factors — Host risk factors for infection with multidrug	
resistant (MDR) pathogens include receipt of antibiotics within the preceding 90	No known MDR (MultiDrug Resistance) risk factors — We suggest one of the
days, current hospitalization of $\geq 5$ days, high frequency of antibiotic resistance in	following intravenous antibiotic regimens for empiric coverage of HAP, VAP,
the community or in the specific hospital unit, immunosuppressive disease and/or	and HCAP in patients with no known risk factors for MDR pathogens:
therapy, and presence of risk factors for HCAP. (See "Epidemiology,	Ceftriaxone (2 g intravenously daily). OR Ampicillin-sulbactam (3 g
pathogenesis, microbiology, and diagnosis of hospital-acquired, ventilator-	intravenously every six hours) or piperacillin-tazobactam (4.5 g intravenously
associated, and healthcare-associated pneumonia in adults", section on 'MDR risk	every six hours) if there is concern based on prevailing pathogens within an
factors'.) For patients with known MDR risk factors, we recommend empiric three-drug combination therapy including:	institution for gram-negative bacilli not treated by ampicillin-sulbactam (eg, Enterobacter spp, Serratia spp, Pseudomonas spp). OR Levofloxacin (750 mg
ONE of the following: Antipseudomonal cephalosporin such as cefepime (2 g	intravenously daily) or moxifloxacin (400 mg intravenously daily). Both agents
intravenously every eight hours) or ceftazidime (2 g intravenously every 8	may be administered orally at the same doses when the patient is able to take oral
hours)Antipseudomonal carbapenem such as imipenem (500 mg intravenously	medications. OR Ertapenem (1 g intravenously daily). Choice of a specific agent
every six hours) or meropenem (1 g intravenously every eight hours) or	for empiric therapy should be based on knowledge of the prevailing pathogens
doripenem (500 mg intravenously every eight hours; administered over one hour	(and susceptibility patterns) within the healthcare setting.
for HAP or HCAP, administered over four hours for VAP) [34,35]Piperacillin-	
tazobactam (4.5 g intravenously every six hours)For patients who are allergic to	
beta-lactam antibiotics: aztreonam (2 g intravenously every six to eight hours)	
PLUS one of the following: Antipseudomonal fluoroquinolone, preferred regimen	
if Legionella is likely, such as ciprofloxacin (400 mg intravenously every eight hours) or levofloxacin (750 mg intravenously daily). These agents may be	
administered orally when the patient is able to take oral medications. The dose of	
levofloxacin is the same when given intravenously and orally, while the dose of	
ciprofloxacin is 750 mg orally twice daily. Aminoglycoside such as gentamicin or	
tobramycin (7 mg/kg intravenously per day adjusted to a trough level <1 mcg/mL)	
or amikacin (20 mg/kg intravenously per day adjusted to a trough level <4-5	
mcg/mL). The aminoglycoside can be stopped after five to seven days in	
responding patients.	
PLUS ONE of the following (if MRSA is suspected, there are MRSA risk factors,	
or there is a high incidence of MRSA locally): Linezolid (600 mg intravenously every 12 hours; may be administered orally when the patient is able to take oral	
medications) OR Vancomycin (15 to 20 mg/kg [based on actual body weight]	
intravenously every 8 to 12 hours for patients with normal renal function, with a	
target serum trough concentration of 15 to 20 mg/L.) In seriously ill patients, a	
loading dose of 25 to 30 mg/kg can be used to facilitate rapid attainment of the	
target trough concentration.	
09-130. +Res+Cel. Which one of the following drugs would be the most	Pneumonia, nursing home. 09-130. ANS=E. The major concern with regard to
appropriate empiric therapy for nursinghome-acquired pneumonia in a patient	pneumonia in the nursing-home setting is the increased frequency of
with no other underlying disease? A) Cefazolin B) Erythromycin C) Ampicillin	oropharyngeal colonization by gram-negative organisms. In the absence of
D) Tobramycin (Nebcin) E) Levofloxacin (Levaquin)	collectible or diagnostic sputum Gram's stains or cultures, empiric therapy must
	cover Streptococcus pneumoniae, Staphylococcus aureus, Haemophilus

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	<i>influenzae</i> , and gram-negative bacteria. Levofloxacin is the best single agent for providing coverage against this spectrum of organisms.
<ul> <li>10-142. +Res+Cel. An 80-year-old male nursing-home resident is brought to the emergency department because of a severe, productive cough associated with a high fever, hypoxia, and hypotension. The patient is found to have a left lower lobe pneumonia, and admission to the intensive-care unit is advised. Which one of the following is the most appropriate antibiotic therapy for this patient?</li> <li>A) Moxifloxacin (Avelox)</li> <li>B) Ceftriaxone (Rocephin) and azithromycin (Zithromax)</li> <li>C) Doxycycline</li> <li>D) Ceftriaxone and metronidazole (Flagyl)</li> <li>E) Ceftazidime (Fortaz), imipenem/cilastatin (Primaxin), and vancomycin (Vancocin)</li> </ul>	Pneumonia, nursing home. <b>10-142. ANS=E.</b> Empiric coverage for methicillin- resistant <i>Staphylococcus aureus</i> and double coverage for pseudomonal pneumonia should be prescribed in patients with nursing home–acquired pneumonia requiring intensive-care unit admission (SOR B).
<b>07-136.</b> +Res+Adm. A 40-year-old white male was seen 4 weeks ago for a sudden onset of cough and shortness of breath. At that visit his oxygen saturation was 92%, but his examination and a chest radiograph were normal. You prescribed azithromycin (Zithromax) and an albuterol inhaler. Ten days later he was feeling well and his oxygen saturation was 97%. Today, he returns to the office with a dry cough and shortness of breath. On examination he has rare inspiratory rales that clear with deep breaths, and he has an oxygen saturation of 86%. A chest film and a D-dimer test are normal. Pulmonary function tests show significant restriction that improves only minimally with albuterol. He has not been exposed to anyone with a similar illness, has no history of asthma, and has no smoking history or occupational exposure. However, he reports that 2 months ago his home was flooded after a heavy rain, and he has been tearing out carpeting that was ruined by the flood. Which one of the following is the most likely diagnosis? A) Persistent asthma with acute exacerbations B) Legionnaires' disease C) Pulmonary embolism, with lupus antibody as the most likely cause of the negative D-dimer test D) Hypersensitivity pneumonitis	Pneumonitis. 07-136. Hypersensitivity pneumonitis can present in acute, subacute, or chronic forms. ANS=D. The case described includes two episodes of the acute form. The patient was exposed to mold antigens in his flooded home. Within 4–8 hours of exposure, chills, cough, and shortness of breath will be noted, and at times will be dramatic. A chest film can be normal, even with significant hypoxia. Pulmonary function tests will show restrictive changes, as compared to the reversible obstructive changes of acute asthma. Blood tests often show an elevated erythrocyte sedimentation rate. Serum IgG tests for the probable antigen confirm the diagnosis. Symptoms resolve over several days, but will suddenly and violently recur with repeated exposure to the offending antigen. The subacute form of hypersensitivity pneumonitis begins gradually over weeks or months, causing a cough and increasing shortness of breath. The chronic form develops over years of exposure, causing fibrotic changes to the lungs that will be evident on radiographs, as well as chronic rales on auscultation. <u>Asthma would be an unlikely diagnosis in this case, with the pulmonary function tests showing restrictive changes rather than obstructive changes, and little improvement with albuterol. Also, the lack of a previous history of asthma makes it less likely. Legionnaires' disease is always possible, but is unlikely in this case given the sudden onset, quick recovery over several days, and sudden recurrence. <u>Pulmonary embolism is ruled out by the negative</u> D-dimer test.</u>
<ul> <li>08-129. +Res+Adm. A 25-year-old Hispanic male comes to the emergency department with the sudden onset of moderate to severe right-sided chest pain and mild dyspnea. Vital signs are normal. A chest film shows a loss of markings along the right lung margins, involving about 10%–15% of the lung space. The mediastinum has not shifted. The best INITIAL treatment would be A) strict bed rest</li> <li>B) oxygen supplementation and close observation</li> <li>C) decompression of the chest by insertion of a large-bore intravenous catheter into the right second intercostal space at the midclavicular line</li> <li>D) immediate chest tube insertion using a water seal</li> <li>E) thoracotomy for wedge resection of pulmonary blebs</li> <li>09-033. +Res+Euc. A 20-year-old nonsmoker presents to your office with a treatment and the second intercost of the second intercost of the second intercost of the second pulmonary blebs</li> </ul>	Pneumothorax. <b>08-129.</b> Spontaneous. <b>ANS=B.</b> A small spontaneous pneumothorax involving less than 15%–20% of lung volume can be managed by administering oxygen and observing the patient. The pneumothorax will usually resorb in about 10 days if no ongoing air leak is present. Oxygen lowers the pressure gradient for nitrogen and favors transfer of gas from the pleural space to the capillaries. Decompression with anterior placement of an intravenous catheter is usually reserved for tension pneumothorax. Chest tube placement is used if observation is not successful or for larger pneumothoraces. Strict bed rest is not indicated.
sudden onset of chest pain. You order a chest radiograph, which shows a small (<15%) pneumothorax. He is in no respiratory distress and vital signs are normal. Pulse oximetry shows a saturation of 98% on room air. Which one of the following would be most appropriate initially? A) CT of the affected lung B) Analgesics and a follow-up visit in 48 hours C) Chest tube insertion D) Hospital admission and a repeat chest film in 24 hours	lung disease who develops a spontaneous "small" pneumothorax (<15% of lung volume) can be managed as an outpatient with analgesics and follow-up within 72 hours. CT of the lung is needed in complicated cases, including patients with known lung disease or recurrent pneumothoraces. <u>A chest tube is</u> required only when the pneumothorax involves >15% of lung volume.
<b>09-129.</b> +Non+Cfp. A 30-year-old female comes to your office because she is concerned about irregular menses (fewer than 9/year), acne, and hirsutism. Her BMI is 36.0 kg/m2. She has no other medical problems and would like to have a baby. Her fasting blood glucose level is 140 mg/dL. Which one of the following would be the most appropriate treatment for this patient's condition and concerns? A) Lifestyle modification only B) Lifestyle modification and pioglitazone (Actos) C) Lifestyle modification and metformin (Glucophage) D) Lifestyle modification and an oral contraceptive E) Lifestyle modification and oral testosterone	Polycystic ovary syndrome. <b>09-129. ANS=C.</b> Lifestyle modification and metformin. This patient has classic features of polycystic ovary syndrome (PCOS). The diagnosis is based on the presence of two of the following: oligomenorrhea or amenorrhea, clinical or biochemical hyperandrogenism, or polycystic ovaries visible on ultrasonography. Lifestyle modifications are necessary, but medications are also needed. First-line agents for the treatment of hirsutism in patients with PCOS include spironolactone, metformin, and effornithine (SOR A). Firstline agents for ovulation induction and treatment of infertility in patients with PCOS include metformin and clomiphene, alone or in combination with rosiglitazone (SOR A). Metformin can also improve menstrual irregularities in patients with PCOS (SOR A), and is probably the first-line agent for obese patients to promote weight reduction (SOR B). In addition, metformin improves insulin resistance (diagnosed by elevated fasting blood glucose) in patients with PCOS, as do rosiglitazone and pioglitazone. Pioglitazone would not be appropriate for this patient because it causes weight gain. Oral contraceptives would improve the patient's menstrual irregularities and hirsutism, but she wishes to become pregnant. Testosterone would worsen the hyperandrogenism and would not treat the PCOS.
<b>10-033.</b> +Non+Cfp.* A 25-year-old female has been trying to conceive for over 1 year without success. Her menstrual periods occur approximately six times per year. Laboratory evaluation of her hormone status has been negative, and her husband has a normal semen analysis. Her only other medical problem is hirsutism, which has not responded to topical treatment. Pelvic ultrasonography	Polycystic ovary syndrome. <b>10-033. ANS=A.</b> This patient fits the criteria for polycystic ovary syndrome (oligomenorrhea, acne, hirsutism, hyperandrogenism, infertility). Symptoms also include insulin resistance. Evidence of polycystic ovaries is not required for the diagnosis. Metformin has the most evidence supporting its use in this situation, and is the only treatment listed that is likely to

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
of her uterus and ovaries is unremarkable. Of the following, which one would be the most appropriate treatment for her infertility? A) Metformin (Glucophage) B) Danazol	decrease hirsutism and improve insulin resistance and menstrual irregularities. Metformin and clomiphene alone or in combination are first-line agents for ovulation induction. Clomiphene does not improve hirsutism, however. Progesterone is not indicated for any of this patient's problems. Spironolactone
C) Medroxyprogesterone (Provera) D) Spironolactone (Aldactone)	will improve hirsutism and menstrual irregularities, but is not indicated for ovulation induction.
<b>07-121.</b> +Hem+Adm. Major diagnostic criteria for polycythemia vera include increased red cell mass, normal oxygen saturation, and A) hypercapnia B) thrombocytosis C) thrombocytopenia D) hepatomegaly E) splenomegaly <b>10-171P.</b> +Hem+Adm. A 62-year-old African-American female undergoes a	Polycythemia vera. <b>07-121.</b> Major diagnostic criteria for polycythemia vera include increased red cell mass, normal oxygen saturation, and the presence of splenomegaly. <b>ANS=E.</b> Polycythemia vera. <b>10-171.</b> Polycythemia vera should be suspected in African-
<ul> <li>workup for pruritus. Laboratory findings include a hematocrit of 55.0% (N 36.0–46.0) and a hemoglobin level of 18.5 g/dL (N 12.0–16.0). Which one of the following additional findings would help establish the diagnosis of polycythemia vera?</li> <li>A) A platelet count &gt;400,000/mm3</li> <li>B) An O2 saturation &lt;90%</li> <li>C) A WBC count &lt;4500/mm3 (N 4300–10,800)</li> <li>D) An elevated uric acid level</li> </ul>	Americans or white females whose hemoglobin level is >16 g/dL or whose hematocrit is >47%. <b>ANS=A.</b> For white males, the thresholds are 18 g/dL and 52%. It should also be suspected in patients with portal vein thrombosis and splenomegaly, with or without thrombocytosis and leukocytosis. Major criteria include an increased red cell mass, a normal O2 saturation, and the presence of splenomegaly. Minor criteria include elevated vitamin B12 levels, elevated leukocyte alkaline phosphatase, a platelet count >400,000/mm3, and a WBC count >12,000/mm3. Patients with polycythemia vera may present with gout and an elevated uric acid level, but neither is considered a criterion for the diagnosis.
<ul> <li>08-100. +Mus+Adm. A 62-year-old white male complains of fatigue and proximal extremity discomfort without any localized joint pain. Which one of the following conditions is associated with a consistently normal creatine kinase enzyme level at all phases of disease?</li> <li>A) Polymyalgia rheumatica</li> <li>B) Polymyositis</li> <li>C) Dermatomyositis</li> <li>D) Drug-induced myopathy</li> <li>E) Hypothyroid endocrinopathy</li> </ul>	Polymyalgia rheumatica. <b>08-100.</b> Polymyalgia rheumatica is a disease of the middle-aged and elderly. <b>ANS=A.</b> Discomfort is common in the neck, shoulders, and hip girdle areas. There is an absence of objective joint swelling, and findings tend to be symmetric. Characteristically, the erythrocyte sedimentation rate and C-reactive protein levels are significantly elevated; however, these tests are nonspecific. Occasionally there are mild elevations of liver enzymes, but muscle enzymes, including creatine kinase, are not elevated in this disorder. Elevation of muscle enzymes strongly suggests another diagnosis. Polymyositis and dermatomyositis are associated with variable levels of muscle enzyme elevations during the active phases of the disease. Drug-induced myopathies such as those seen with the statin family of cholesterol-lowering medications tend to produce some elevation of muscle enzymes during the course of the disorder. Hypothyroidism is associated with creatine kinase elevation. It should be strongly considered in the patient with unexplained, otherwise asymptomatic creatine kinase elevation found on a routine chemistry profile. Hyperthyroidism may cause muscle disease and loss of muscle, but it is not associated with creatine kinase elevation.
<ul> <li>10-066. +Mus+Adm.&gt;L?* Which one of the following is necessary to make a diagnosis of polymyalgia rheumatica?</li> <li>A) Joint swelling</li> <li>B) Early morning stiffness</li> <li>C) Reduction of symptoms with high-dose NSAID therapy</li> <li>D) An erythrocyte sedimentation rate ≥60 mm/hr</li> <li>E) Bilateral shoulder or hip stiffness and aching</li> </ul>	Polymyalgia rheumatica. <b>10-066.</b> There must be bilateral shoulder or hip stiffness and aching for at least one month in order to make the diagnosis of polymyalgia rheumatica. Joint swelling occurs occasionally, but neither swelling nor early morning stiffness is necessary to make the diagnosis. Polymyalgia rheumatica does not respond to NSAIDs. The erythrocyte sedimentation rate should be $\geq$ 40 mm/hr. <b>ANS=E.</b>
<ul> <li>08-060. +Res+Csp. Which one of the following confers the greatest risk for postoperative pulmonary complications in noncardiothoracic surgery?</li> <li>A) Heart failure</li> <li>B) Age ≥80</li> <li>C) COPD</li> <li>D) Cigarette use</li> <li>E) Corticosteroid use</li> </ul>	Postoperative complications. <b>08-060.</b> Postoperative pulmonary complications are important contributors to the risks associated with surgery and anesthesia. <b>ANS=B.</b> Significant postoperative pulmonary complications include atelectasis, pneumonia, respiratory failure, and exacerbation of underlying chronic lung disease. Risk factors for postoperative pulmonary complications can be divided into patient-related factors, procedure-related factors, and laboratory factors. Patient-related risk factors include advanced age, American Society of Anesthesiologists Physical Status classification of 2 or higher, functional dependence, COPD, and heart failure. Of these, advanced age confers the greatest risk, with risk beginning to increase after age 50. One study found an odds ratio of 5.63 for those age 80 and above. Procedure-related risk factors include aortic aneurysm repair, nonresective thoracic surgery, abdominal surgery, neurosurgery, and prolonged surgery. The only laboratory predictor supported by good evidence is a serum albumin level <30 g/L.
<ul> <li>08-218. Rep+Csp. Good evidence supports which one of the following measures for reducing the risk of postoperative pulmonary complications after major abdominal surgery?</li> <li>A) Avoidance of preoperative systemic corticosteroids</li> <li>B) Use of an incentive spirometer</li> <li>C) Antibiotic prophylaxis for 48 hours</li> <li>D) Postoperative total parenteral nutrition</li> </ul>	Postoperative complications. <b>08-218.</b> Use of an <u>incentive spirometer and</u> <u>similar lung expansion techniques such as chest physiotherapy have been</u> <u>shown to have significant benefit for reducing postoperative complications</u> . A <u>course of preoperative corticosteroids has been shown to be beneficial, such</u> <u>as in a patient with COPD</u> . Prolonged antibiotic prophylaxis and postoperative total parenteral nutrition have not been shown to have any benefit. <b>ANS=B</b> .
<ul> <li>08-048. +Pbc+Mac. Which one of the following is safest for use in pregnancy (FDA category B or better)?</li> <li>A) Trimethoprim/sulfamethoxazole (Bactrim, Septra)</li> <li>B) Ciprofloxacin (Cipro)</li> <li>C) Nitrofurantoin (Macrodantin)</li> <li>D) Gentamicin</li> </ul>	Pregnancy, fetal risk drugs. <b>08-048.</b> The FDA has established a fetal risk summary dividing drugs into categories. <b>ANS=C.</b> Category A drugs have been shown in controlled studies to pose no risk. At present there are no category A antibiotics. Most fall into categories B and C, with category B drugs thought to be relatively safe in pregnancy. When possible, a category B antibiotic should be chosen for treatment of a pregnant patient. Category C drugs have unknown fetal risk with no adequate human studies, and the possibility of risks and benefits must be considered before prescribing them for pregnant women. Category D drugs show some evidence for fetal risk; although there may be times when use of these drugs is necessary, they should not be used unless there is a very serious or life-
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 127 of 170	

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez threatening situation. Category X drugs have proven fetal risk and are contraindicated in pregnancy. Of the drugs listed, only nitrofurantoin is in category B. The others are all category C drugs. The FDA is currently in the process of revising their classification and labeling for drugs in pregnancy and lactation.
<b>09-011.</b> +Non+Cfp. A 25-year-old female is concerned about recurrent psychological and physical symptoms that occur during the luteal phase of her menstrual cycle and resolve by the end of menstruation. She wants help managing these symptoms, but does not want to take additional estrogen or progesterone. Which one of the following management strategies is supported by the best clinical evidence? A) Cognitive-behavioral therapy B) Spironolactone during the luteal phase C) Bright light therapy during the luteal phase D) Evening primrose oil started 2–4 days prior to the luteal phase E) Black cohosh	Premenstrual syndrome. <b>09-011.</b> Randomized, controlled trials found that luteal- phase <b>spironolactone improved psychological and physical symptoms of</b> <b>premenstrual syndrome</b> over 2–6 months compared with placebo. <b>Ans=B.</b>
<ul> <li>10-169. +Psy+Cfp. A 40-year-old white female lawyer sees you for the first time. When providing a history, she describes several problems, including anxiety, sleep disorders, fatigue, persistent depressed mood, and decreased libido. These symptoms have been present for several years and are worse prior to menses, although they also occur to some degree during menses and throughout the month. Her menstrual periods are regular for the most part. The most likely diagnosis at this time is</li> <li>A) premenstrual syndrome</li> <li>B) dysthymia</li> <li>C) dementia</li> <li>D) menopause</li> <li>E) anorexia nervosa</li> </ul>	Premenstrual syndrome. <b>10-169.</b> (PMS). Psychological disorders, including anxiety, depression, and dysthymia, are frequently confused with PMS, and must be ruled out before initiating therapy. Symptoms are cyclic in true PMS. The most accurate way to make the diagnosis is to have the patient keep a menstrual calendar for at least two cycles, carefully recording daily symptoms. Dysthymia consists of a pattern of ongoing, mild depressive symptoms that have been present for 2 years or more and are less severe than those of major depression. This diagnosis is consistent with the findings in the patient described here. <b>ANS=B</b> .
07-112. +Pbc+Mac. Which one of the following is an evidence-based clinical	Prenatal care. 07-112. Maternity care; recommendations. ANS=C. All pregnant
recommendation for maternity care? A) All pregnant women should be screened serologically for herpes simplex virus infection B) All pregnant women should be	women should be screened for asymptomatic bacteriuria due to the increased risk for pyelonephritis and preterm labor. All pregnant women should also be
screened for bacterial vaginosis C) All pregnant women should be screened for asymptomatic bacteriuria by urine culture D) Only at-risk women should be tested for HIV infection E) Only women 25 years of age or younger should be screened for chlamydial infection	screened for active hepatitis B, syphilis, and HIV infection. Only at-risk women (those 25 years of age or younger and those at risk of STDs) need to be screened for <i>Chlamydia</i> . Routine screening for bacterial vaginosis is not recommended.
<b>07-176.</b> +Pbc+Mac. Which one of the following vaccinations is contraindicated in pregnancy? A) Diphtheria B) Hepatitis B C) Influenza D) Tetanus E) Varicella	Prenatal care. <b>07-176. Vaccinations in pregnancy; Recommendation. ANS=E.</b> The varicella vaccine contains live attenuated varicella-zoster virus. Immunization during pregnancy is contraindicated because the effects on the fetus are unknown. Diphtheria, hepatitis B, influenza, and tetanus vaccines are not contraindicated during pregnancy. <u>Hint: You B(V)ar Varricela in pregnancy.</u>
<ul> <li>08-059. +Ref+Mac. Which one of the following is recommended for routine prenatal care?</li> <li>A) Hepatitis C antibody testing</li> <li>B) Parvovirus antibody testing</li> <li>C) Cystic fibrosis carrier testing</li> <li>D) HIV screening</li> <li>E) Examination of a vaginal smear for clue cells</li> </ul>	Prenatal care. <b>08-059.</b> HIV screening is recommended as part of routine prenatal care, even in low-risk pregnancies. <b>ANS=D</b> . Counseling about cystic fibrosis carrier testing is recommended, but not routine testing. Hepatitis C and parvovirus antibodies are not part of routine prenatal screening. Routine screening for bacterial vaginosis with a vaginal smear for clue cells is not recommended. <b>UpToDate:</b> Routine prenatal visit: Rhesus type and antibody; Hematocrit or hemoglobin and mean corpuscular volume (MCV); Cervical cytology; Rubella immunity (If nonimmune, the patient should be counseled and receive postpartum immunization); Urinary culture; Syphilis testing; Hepatitis B antigen; Chlamydia testing; Thyroid function; HIV; Down syndrome screening.
<ul> <li>09-063. +Non+Mac. A 29-year-old gravida 1 para 0 at <u>8 weeks gestation</u> is concerned about Down syndrome. She had a sibling with Down syndrome, and she and her spouse want to know what antenatal tests are available to them. Which one of the following has the <u>best detection rate for Down syndrome in the first trimester of pregnancy</u>?</li> <li>A) Serum B-hCG and pregnancy-associated plasma protein A (PAPP-A), with nuchal translucency (combined screening)</li> <li>B) Maternal serum levels of inhibin A, a-fetoprotein, unconjugated estriol, and B-hCG (quadruple screening)</li> <li>C) Ultrasonography</li> <li>D) Chorionic villus sampling</li> <li>E) Amniocentesis</li> <li>10-156. +Pbc+Com. Which one of the following has been shown to benefit from screening for asymptomatic bacteriuria?</li> <li>A) Women with diabetes mellitus</li> <li>B) Men with prostatic enlargement on examination</li> <li>C) All adults with newly diagnosed hypertension</li> <li>D) Nursing-home residents with an indwelling Foley catheter</li> </ul>	Prenatal care. <b>09-063. Fetal abnormalities screening. Down syndrome.</b> <b>ANS=D.</b> In today's environment, there are multiple screening tools and tests to detect fetal aneuploidy. All pregnant women, regardless of age, should be offered the opportunity to undergo some form or combination of screening to detect fetal abnormalities (SOR B). <u>Chorionic villus sampling can be offered at 10–13</u> <u>weeks gestation, and has a 97.8% detection rate for Down syndrome—the best detection rate of studies offered in the first trimester (SOR C). <u>Combined screening can be offered at 11–14 weeks gestation, and has a 7%–89% detection rate (SOR A). Quadruple screening is done at 15–20 weeks gestation, and has a 67%–81% detection rate (SOR A). Although amniocentesis has the best detection rate of the options listed (99.4%), it cannot be offered until 16–18 weeks gestation (SOR C). Prenatal care. <b>10-156.</b> asymptomatic screening. <b>ANS=E.</b> Clinical guidelines published by the U.S. Preventive Services Task Force in 2008 reaffirmed the 2004 recommendations regarding screening for asymptomatic bacteriuria in adults. The only group in which screening is recommended is asymptomatic pregnant women at 12–16 weeks gestation, or at the first prenatal visit if it occurs later (SOR A).</u></u>
<ul> <li>E) Women who are pregnant</li> <li>09-150. +Int+Cel. Which one of the following nutritional interventions should be recommended to accelerate pressure ulcer healing in the elderly?</li> <li>A) Supplemental arginine</li> <li>B) Oral vitamin C and zinc</li> <li>C) High-dose multivitamins</li> <li>D) Adequate protein intake</li> <li>10-214. +Int+Cel.&gt;L* Which one of the following is true regarding treatment of</li> </ul>	Pressure ulcer. <b>09-150. ANS=D.</b> Very few nutritional interventions have been shown to accelerate pressure ulcer healing in the elderly. Maintaining a protein intake of at least 1.2–1.5 g/kg/day is recommended, and some authorities recommend 2 g/kg/day with stage III or IV ulcers. Increased caloric intake is also necessary to promote healing. The role of vitamins and minerals in preventing and treating pressure ulcers is unclear. Pressure ulcer. <b>10-214. Trials have not definitively shown that nutritional</b>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
pressure ulcers? A) Multiple controlled trials have shown that nutritional supplements hasten ulcer	supplements speed ulcer healing. The head of the bed should be elevated only as necessary, and should be kept to less than 30° to reduce shearing forces.
healing B) Keeping the head of the bed elevated to 45° during the day promotes healing by minimizing shearing forces	Systemic antibiotics should only be used for cellulitis, osteomyelitis, and bacteremia. Topical antibiotics may be used for periods of up to 2 weeks (SOR C). ANS=D.
C) Systemic antibiotics are most helpful when used intermittently to reduce bacterial counts	
D) Topical antibiotics should not be used for more than 2 weeks at a time <b>09-079.</b> +Ref+Mac. A 25-year-old female at 31 weeks gestation presents to the	Preterm labor. 09-079. The purpose of obstetric management of preterm labor
<ul> <li>abor wing with painful uterine contractions every 3 minutes. On examination her cervix is 3 cm dilated and 50% effaced. Her</li> <li>membranes are intact and fetal heart monitoring is reassuring. She is treated with tocolysis, betamethasone, antibiotics, and intravenous hydration, and cultured for group B <i>Streptococcus</i>. The neonatal intensive care unit is notified, but the contractions ease and eventually stop. After 2 days of observation, her cervix is unchanged and she is discharged home. One week later, the patient presents with contractions for the last 8 hours. Her cervical findings are unchanged. Her group B <i>Streptococcus</i> culture was negative. Which one of the following would be the most appropriate next step in the management of this patient?</li> <li>A) Repeat tocolysis, betamethasone, antibiotics, and intravenous hydration B) Betamethasone, antibiotics, and intravenous hydration only D) Tocolysis only E) Expectant management</li> </ul>	before 34 weeks gestation is to allow time to administer corticosteroids. <b>ANS=E.</b> Treatment does not substantially delay delivery beyond 1 week. Repeated administration of corticosteroids does not confer more benefit than a single course. Antibiotics are administered for prophylaxis of group B <i>Streptococcus</i> and are useful for delaying delivery if membranes are ruptured. They do not add any benefit otherwise, even though subclinical amnionitis may be a causative factor in many cases of preterm labor. Prolonged and repeated tocolysis is believed to be harmful. Tocolysis would not be indicated in this patient because she has had no cervical change and is therefore having preterm contractions, not preterm labor. Careful monitoring for fetal compromise, consultation with obstetric colleagues, and neonatal intensive-care unit involvement should be part of expectant management of preterm labor cases.
<ul> <li>08-209. +Pbs+Com. Which one of the following community health programs best fits the definition of secondary prevention?</li> <li>A) A smoking education program at a local middle school</li> <li>B) A blood pressure screening at a local church</li> <li>C) A condom distribution program</li> <li>D) Screening diabetic patients for microalbuminuria</li> <li>Primary prevention represents the earliest possible interventions to foil disease before it begins. For CAD, this includes measures that prevent atherosclerotic plaques from ever developing. Secondary prevention includes early detection and halting the progression of established but asymptomatic disease. For CAD, this includes taking measures to prevent cardiovascular symptoms (e.g., dyspnea), damage (e.g., ventricular dysfunction), and events (e.g., acute coronary syndromes). However, once such symptoms, damage, or events occur, it is too late for secondary prevention. At this point, the only option is to try to rein in further disease progression with tertiary prevention. Tertiary prevention involves slowing, arresting, or reversing disease to prevent recurrent symptoms, further deterioration, and subsequent events.</li> </ul>	Prevention. <b>08-209. ANS=B.</b> Prevention traditionally has been divided into three categories: primary, secondary, and tertiary. <u>Primary prevention targets</u> individuals who may be at risk to develop a medical condition and intervenes to prevent the onset of that condition (e.g., childhood vaccination programs, water fluoridation, antismoking programs, and education about safe sex). <u>Secondary prevention targets individuals who have developed an asymptomatic disease and institutes treatment to prevent complications</u> (e.g., routine Papanicolaou smears, and screening for hypertension, diabetes, or hyperlipidemia). <u>Tertiary prevention targets individuals with a known disease, with the goal of limiting or preventing future complications</u> (e.g., screening diabetics for microalbuminuria, rigorous treatment of diabetes mellitus, and post–myocardial infarction prophylaxis with B-blockers and aspirin).
08-234. +Gas+Adm. A 53-year-old male presents with a 2-week history of passing frequent, small, formed stools that contain mucus and streaks of blood. He says he has not had diarrhea. He recently traveled to Mexico. The Figure shows findings seen on anoscopy. Which one of the following would be the most appropriate next step? A) Empiric therapy for giardiasis B) Testing for <i>Clostridium difficile</i> C) Rectal cultures for <i>Chlamydia</i> , gonorrhea, and HSV-2 D) Referral to a colorectal surgeon	Proctitis. <b>08-234.</b> The patient's symptoms and anoscopic examination are consistent with the diagnosis of acute proctitis. <b>ANS=C.</b> Possible causes include <i>Chlamydia</i> , gonorrhea, and ulcerative proctitis. Parasitic diseases such as <i>Entamoeba histolytica</i> can cause dysentery, but <i>Giardia lamblia</i> causes nausea, vomiting, malabsorption, and watery diarrhea rather than bloody diarrhea, and is an infection of the duodenum and proximal jejunum. <i>Clostridium difficile</i> infection is also not limited to the rectum, and the mucosa has a whitish, membranous appearance rather than an ulcerative appearance. The anoscopic examination did not reveal a nodular mass typical of colorectal cancer.
<ul> <li>09-003. +Pbc+Com. According to the U.S. Preventive Services Task Force, which one of the following is true regarding prostate cancer screening? A) Most men between the ages of 50 and 75 should be screened for prostate cancer B) Screening for prostate cancer is inappropriate at any age C) The harms of screening for prostate cancer after the age of 75 outweigh the benefits D) A digital rectal examination has greater sensitivity than prostate-specific antigen (PSA) testing for detecting prostate cancer E) Health outcomes are improved by monitoring PSA velocity and doubling time</li> <li>09-116. +Nep+Adm. A 25-year-old male who came to your office for a pre-</li> </ul>	Prostate cancer. <b>09-003.</b> Screening; Recommendations. Ans: C; The U.S. Preventive Services Task Force (USPSTF) concluded with moderate certainty that the harm from screening for prostate cancer in men 75 or older outweighs the benefits. Potential harms include urinary incontinence, erectile dysfunction, bowel dysfunction, and death, and the USPSTF found no direct evidence of benefits from screening. Evidence is insufficient to assess the benefits versus harms of screening in men younger than age 75. Most major U.S. medical organizations recommend individualizing decisions after discussions with the patient, and agree that the best candidates for screening are men age 50 or older with a life expectancy $\geq \Box 10$ years. Proteinuria. <b>09-116.</b> orthostatic. <b>ANS=E.</b> Persons younger than 30 years of age
v 110, mop main, 1125 year-ora mate who came to your office for a pre-	riotemana, 02-110, orthostade, A110-12, reisons younger than 50 years of age

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
employment physical examination is found to have 2+ protein on a dipstick urine test. You repeat the examination three times within the next month and results are still positive. Results of a 24-hour urine collection show protein excretion of <2 g/day and normal creatinine clearance. As part of his further evaluation you obtain split urine collections with a 16-hour daytime specimen containing an increased concentration of protein, and an 8-hour overnight specimen that is normal. Additional appropriate evaluation for this man's problem at this time includes which one of the following? A) Serum and urine protein electrophoresis B) Antinuclear antibody C) Serum albumin and lipid levels D) Renal Ultrasonography E) No specific additional testing	who excrete less than 2 g of protein per day and who have a normal creatinine clearance should be tested for orthostatic proteinuria. This benign condition occurs in about 3%–5% of adolescents and young adults. It is characterized by increased protein excretion in the upright position, but normal protein excretion when the patient is supine. It is diagnosed using split urine collections as described in the question. The daytime specimen has an increased concentration of protein, while the nighttime specimen contains a normal concentration. Since this is a benign condition with normal renal function, no further evaluation is necessary.
<ul> <li>08-220. +Mus+Adm. An 83-year-old female presents with pain, swelling, and erythema of her left knee, as well as some swelling and pain in her right wrist. She first noticed this problem last night before going to bed. She is generally healthy and takes no medications. She has not been sexually active since being widowed 15 years ago, and she currently lives with her sister. She states that she developed pain and swelling in her left ankle 2 years ago that lasted only a couple of days and resolved spontaneously. Blood testing shows a very elevated erythrocyte sedimentation rate but a normal rheumatoid factor and uric acid level. Which one of the following is the most likely diagnosis?</li> <li>A) Gonococcal arthritis</li> <li>B) Gout</li> <li>C) Pseudogout (calcium pyrophosphate disease)</li> <li>D) Rheumatoid arthritis</li> <li>E) Rupture of the anterior cruciate ligament</li> </ul>	Pseudogout. 08-220. Acute monoarthritis in adults is most commonly caused by infection, trauma, or crystal deposition. ANS=C. Rheumatoid arthritis infrequently presents as monoarthritis, and more often has a subacute course with multiple, symmetric joints involved. Although osteoporosis may result in a fracture of the knee joint without trauma, there is no reason to believe that this patient has a torn anterior cruciate ligament. Gonococcal arthritis is one of the most common causes of septic arthritis, but is highly unlikely in this elderly, sexually inactive patient. Nongonococcal septic arthritis (especially due to staphylococcal and streptococcal bacteria) is still a consideration and should be ruled out by aspiration of fluid to be sent for culture. This patient's presentation is most consistent with pseudogout. Having a normal uric acid level suggests against gout, but does not rule it out. Also, gout is seven times more likely to be seen in males, whereas pseudogout is 1.5 times more frequent in females. Pseudogout most often affects the elderly, and usually affects the knee, wrist, and ankle. Gout presents most commonly in the first metatarsophalangeal joint and insteps of the feet, but also can occur in the knee, wrist, finger, and olecranon bursa. Differentiating between gout and pseudogout can be difficult and is best done by analysis of joint fluid. In patients with gout, this fluid contains highly negative birefringent, needle-shaped urate crystals, whereas in pseudogout the fluid contains rhomboid-shaped, weakly positive birefringent calcium pyrophosphate crystals.
<b>07-097.</b> +Res+Adm. A 45-year-old female presents to an urgent care center complaining of left-sided chest pain for the past 2 days. The pain is nonradiating and sharp in character, and increases with deep inspiration. She has no associated shortness of breath, cough, nausea, diaphoresis, or dizziness. She has no significant past medical history or recent travel history. On examination she is afebrile, with a pulse rate of 92 beats/min, a blood pressure of 116/72 mm Hg, and a respiratory rate of 12/min. Her lungs are clear and her heartbeat is regular with no murmurs. Her lower extremities have no edema, tenderness, or varicosities. Which one of the following is the most appropriate next step in her evaluation? A) A high-sensitivity D-dimer test B) A troponin I level C) Ultrasound examination of the veins of the lower extremities D) A multidetector helical CT of the chest E) An antinuclear antibody (ANA) level	Pulmonary embolism. <b>07-097.</b> D-dimer test. <b>ANS=A.</b> This patient has a low pretest probability of pulmonary embolism based on the Wells criteria. She would be a good candidate for a high-sensitivity D-dimer test, with a negative test indicating a low probability of venous thromboembolism. In patients with a low pretest probability of venous thromboembolism, an ultrasound or helical CT would not be the recommended initial evaluation. Neither troponin I nor an ANA level would be part of the recommended initial evaluation.
<b>09-026.</b> +Res+Euc. A 42-year-old female presents to the emergency department with pleuritic chest pain. Her probability of pulmonary embolism is determined to be low. Which one of the following should be ordered to further evaluate this patient? A) Brain natriuretic peptide (BNP) B) CT pulmonary angiography C) ELISA-based D-dimer D) A cardiac troponin level E) A ventilation-perfusion lung scan	Pulmonary embolism. 09-026. D-dimer. Ans=C. Patients who have a low or moderate pretest probability of pulmonary embolism should have d-dimer testing as the next step in establishing a diagnosis.
<ul> <li>10-042. +Res+Adm. A 58-year-old male presents with a several-day history of shortness of breath with exertion, along with pleuritic chest pain. His symptoms started soon after he returned from a vacation in South America. He has a history of deep-vein thrombosis (DVT) in his right leg after surgery several years ago, and also has a previous history of prostate cancer. You suspect pulmonary embolism (PE). Which one of the following is true regarding the evaluation of this patient?</li> <li>A) CT angiography would reliably either confirm or rule out PE</li> <li>B) Compression ultrasonography of the lower extremities will reveal a DVT in the majority of patients with PE</li> <li>C) No further testing is needed if a ventilation-perfusion lung scan shows a low probability of PE</li> <li>D) No further testing is needed if a D-dimer level is normal</li> <li>E) An elevated D-dimer level would confirm the diagnosis of PE</li> </ul>	Pulmonary embolism. <b>10-042.</b> CT angiography. <b>ANS=A.</b> This patient has a high clinical probability for pulmonary embolism (PE). About 40% of patients with PE will have positive findings for deep-vein thrombosis in the lower extremities on compression ultrasonography. A normal ventilation-perfusion lung scan rules out PE, but inconclusive findings are frequent and are not reassuring. A normal D-dimer level reliably rules out the diagnosis of venous thromboembolism in patients at low or moderate risk of pulmonary embolism, but the negative predictive value of this test is low for high-probability patients. A positive D-dimer test does not confirm the diagnosis; it indicates the need for further testing, and is thus not necessary for this patient. A multidetector CT angiogram or ventilation-perfusion lung scan should be the next test, as these are reliable to confirm or rule out PE.
<ul> <li>10-187. +Car+Adm. Which one of the following hospitalized patients is the most appropriate candidate for thromboembolism prophylaxis with enoxaparin (Lovenox)?</li> <li>A) An ambulatory 22-year-old obese male admitted for an appendectomy</li> <li>B) A 48-year-old male with atrial fibrillation on chronic therapeutic anticoagulation, admitted for cellulitis</li> <li>C) A 48-year-old male with end-stage liver disease and coagulopathy</li> <li>D) A 52-year-old female on chronic estrogen therapy, admitted with severe thrombocytopenia</li> <li>E) A 67-year-old female with hemiparesis, admitted for community-acquired pneumonia</li> </ul>	Pulmonary embolism. <b>10-187.</b> Enoxaparin (Lovenox). <b>ANS=E.</b> Venous thromboembolism is a frequent cause of preventable death and illness in hospitalized patients. Approximately 10%–15% of high-risk patients who do not receive prophylaxis develop venous thrombosis. Pulmonary embolism is thought to be associated with 5%–10% of deaths in hospitalized patients. Anticoagulant prophylaxis significantly reduces the risk of pulmonary embolism and should be used in all high-risk patients. Prophylaxis is generally recommended for patients over the age of 40 who have limited mobility for 3 days or more and have at least one of the following risk factors: acute infectious disease, New York Heart Association class III or IV heart failure, acute myocardial infarction, acute respiratory disease, stroke, rheumatic disease, inflammatory bowel disease, previous venous thromboembolism, older age (especially >75 years), recent

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	surgery or trauma, immobility or paresis, obesity (BMI >30 kg/m2), central
	venous catheterization, inherited or acquired thrombophilic disorders, varicose
	veins, or estrogen therapy. Pharmacologic therapy with an anticoagulant such as
	enoxaparin is clearly indicated in the 67-year-old who has limited mobility
	secondary to hemiparesis and is being admitted for an acute infectious disease.
	The patient on chronic anticoagulation, the patient with severe thrombocytopenia,
	and the patient with coagulopathy are at high risk for bleeding if given
	anticoagulants, and are better candidates for nonpharmacologic therapies such as
	foot extension exercises, graduated compression stockings, or pneumatic
	compression devices. Although the 22-year-old is obese and recently had surgery,
	his young age and ambulatory status make anticoagulant prophylaxis less necessary.
<b>07-100.</b> +Res+Adm. Which one of the following is most consistent with a	Pulmonary function tests. 07-100. Asthma is typically associated with an
diagnosis of asthma? A) Reduced FEV1 and reduced FEV1 /FVC ratio B)	obstructive impairment that is reversible with short-acting bronchodilators.
Reduced FEV1 and normal FEV1 /FVC ratio C) Reduced FEV1 and increased	ANS=A. A reduced FEV1 and FEV1 /FVC ratio indicates airflow
FEV1 /FVC ratio D) Reduced FVC and normal FEV1 /FVC ratio E) Reduced	obstruction. A reduced FVC with a normal or increased FEV1 /FVC ratio is
FVC and increased FEV1 /FVC ratio	consistent with a restrictive pattern of lung function. Restricted lung expansion
USMLE book:	causes $\downarrow$ lung volumes ( $\downarrow$ FVC and TLC). PFTs—FEV1/FVC ratio > 80%.
Obstructive vs. restrictive lung disease	Types:
$\frac{FEV_1}{FVC} = 80\% \qquad \qquad \frac{FEV_1}{FVC} < 80\% \qquad \qquad \frac{FEV_1}{FVC} > 80\% \downarrow TLC$	<u>1. Poor breathing mechanics</u> (extrapulmonary, peripheral hypoventilation): a. Poor
Normal Obstructive Restrictive	muscular effort—polio, myasthenia gravis b. Poor structural apparatus—scoliosis,
FEV1 FVC	morbid obesity
	<ul> <li><u>2. Interstitial lung diseases</u> (pulmonary, lowered diffusing capacity):</li> <li>a. Adult respiratory distress syndrome (ARDS)</li> </ul>
7 FEV, FVC 7- 7 7-	b. Neonatal respiratory distress syndrome (ARDS)
	Pneumoconioses (coal miner's silicosis, asbestosis)
(1) 5 <sup>1</sup> 5 5	d. Sarcoidosis e. Idiopathic pulmonary fibrosis (repeated cycles of lung injury and
4 - 4 - FEV1, FVC	wound healing with $\uparrow$ collagen)
	f. Goodpasture's syndrome g. Wegener's granulomatosis
	h. Eosinophilic granuloma (histiocytosis X) i. Drug toxicity (bleomycin, busulfan,
	amiodarone)
	Hint: notice how both FVC and FEV could be lower in Restrictive (R) and
Time (sec) Time (sec) Time (sec)	Obstructive (O) processes, so FEV1/FVC is the determinat factor. Think R for
Note: Obstructive lung volumes > normal (↑ TLC, ↑ FRC, ↑ RV); restrictive lung volumes < normal. In both obstructive and restrictive, FEV <sub>1</sub> and FVC are reduced, but in obstructive, FEV <sub>1</sub> is more dramatically reduced,	<b>Restrictive and Right, and numbers to the Right are gReater, in this case</b> > then $0.7 \text{ ar } 70\%$ So if EEV1/(EVC) $0.7$ then think of Participation process and
resulting in a $\downarrow$ FEV <sub>1</sub> /FVC ratio.	than 0.7 or 70%. So, if FEV1/FVC > 0.7 then think of Restrictive process, and the opposite applies for Obstructive processes
	the opposite applies for Obstructive processes. $R = \langle FVC, \langle FEV1, FVC \rangle = 0.7$
	O = <= FVC, < FEV1, FEV1/FVC < 0.7
	Obstructive air diseases: Obstruction of air flow resulting in air trapping in the
	lungs, e.g. Chronic <u>B</u> ronchitis (" <u>B</u> lue <u>B</u> loater"), Em <u>P</u> hysema (" <u>P</u> ink puffer,"
	barrel-shaped chest), Asthma, Bronchiectasis.
08-072. +Res+Adm. A 67-year-old smoker with a history of pulmonary	Pulmonary function tests. 08-072. Pulmonary function tests are usually classified
tuberculosis at 22 years of age presents with a 6-month history of increasing	as normal, compatible with a restrictive defect, or consistent with obstructive
shortness of breath. On office spirometry his FVC is 60% of predicted, his FEV1	airway disease. ANS=A. In restrictive ventilatory processes, the FVC is
is 80% of predicted, and his FEV1/FVC ratio is 0.8. Which one of the following	decreased, the FEV1 is decreased or normal, and the absolute FEV1 /FVC is
would be the most appropriate next step in his evaluation?	>0.7. In obstructive airway problems, findings include a normal or decreased
A) Refer to a pulmonary laboratory for static lung volume measurement and diffusion studies	FVC, a decreased FEV1, and an absolute FEV1 /FVC <0.7. When simple spirometry suggests a restrictive ventilatory problem, the patient should undergo
B) Perform a bronchodilator challenge test	full pulmonary function testing for static lung volume measurements and
C) Investigate for nonpulmonary causes for the patient's symptoms	diffusing capacity of the lung for carbon monoxide. If spirometry suggests an
D) Order a PPD skin test	obstructive problem, it should be repeated after administering an inhaled
	bronchodilator. Because this patient has a history of pulmonary tuberculosis, a
	TB skin test is inappropriate and would not provide any useful information.
10-093. +Res+Csp.>L A 50-year-old male has a pre-employment chest radiograph	Pulmonary nodule. 10-093. ANS=A. Pulmonary nodules are a common finding on
showing a pulmonary nodule. There are no previous studies available. Which one	routine studies, including plain chest radiographs, and require evaluation.
of the following would raise the most suspicion that this is a malignant lesion if	Radiographic features of benign nodules include a diameter <5 mm, a smooth
found on the radiograph?	border, a solid appearance, concentric calcification, and a doubling time of less
A) The absence of calcification	than 1 month or more than 1 year. Features of malignant nodules include a size
B) Location above the midline of the lung	>10 mm, an irregular border, a "ground glass" appearance, either no calcification
C) A diameter of 4 mm	or an eccentric calcification, and a doubling time of 1 month to 1 year (SOR B).
<ul> <li>D) A solid appearance</li> <li>07-079. +Nep+Mac. A 28-year-old female at 20 weeks gestation is hospitalized</li> </ul>	Dualonanhritic 07 070 In programmy ANS-D Most artification areas the
with pyelonephritis and treated with appropriate intravenous antibiotics. A urine	Pyelonephritis. 07-079. In pregnancy. ANS=D. Most antibiotics cross the placenta, making it necessary to avoid those that may be harmful to the fetus.
culture is positive for a pan-sensitive organism and you plan to discharge her with	Penicillins, cephalosporins, and nitrofurantoin are commonly used in pregnancy,
a prescription for a course of oral antibiotics. Which one of the following would	and there is no evidence for adverse fetal outcomes. Fluoroquinolones are
be CONTRAINDICATED for her outpatient treatment?	contraindicated in pregnancy because they have been found to cause an
A) Amoxicillin	irreversible arthropathy in animal studies. Nitrofurantoin is safe and effective for
B) Cephalexin (Keflex)	the treatment of cystitis, but does not attain adequate renal parenchymal
C) Cefixime (Suprax)	penetration for treatment of pyelonephritis.
D) Levofloxacin (Levaquin)	
E) Amoxicillin/clavulanate (Augmentin)	
<b>10-060.</b> +Nep+Mac. A 39-year-old African-American multigravida at 36 weeks	Pyelonephritis. 10-060. <u>Pyelonephritis is the most common medical</u>
gestation presents with a temperature of 40.0°C (104.0°F), chills, backache, and	<b>complication of pregnancy</b> . <b>ANS=E.</b> The diagnosis is usually straightforward, as
vomiting. On physical examination, the uterus is noted to be nontender, but there	in this case. Since the patient is quite ill, treatment is best undertaken in the
vomiting. On physical examination, the uterus is noted to be nontender, but there is slight bilateral costovertebral angle tenderness. A urinalysis reveals many	in this case. Since the patient is quite ill, <u>treatment is best undertaken in the</u> <u>hospital with parenteral agents, at least until the patient is stabilized and</u> Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
leukocytes, some in clumps, as well as numerous bacteria. Of the following, the	cultures are available. Ampicillin plus gentamicin or a cephalosporin is
most appropriate therapy at this time would be	typically used. Sulfonamides are contraindicated late in pregnancy because
A) oral trimethoprim/sulfamethoxazole (Bactrim, Septra)	they may increase the incidence of kernicterus. Tetracyclines are
<ul><li>B) oral nitrofurantoin (Macrodantin)</li><li>C) oral levofloxacin (Levaquin)</li></ul>	contraindicated because administration late in pregnancy may lead to discoloration of the child's deciduous teeth. <b>Nitrofurantoin may induce</b>
D) intravenous doxycycline	hemolysis in patients who are deficient in G-6-PD, which includes
E) intravenous ceftriaxone (Rocephin)	approximately 2% of African-American women. The safety of levofloxacin in
_)	pregnancy has not been established, and it should not be used unless the
	potential benefit outweighs the risk.
09-235. +Mus+Euc. An 84-year-old male is walking across the street and has to	Quadriceps tendon rupture. 09-235. Quadriceps tendon rupture can be partial or
hurry to avoid oncoming traffic. He suddenly develops extreme pain in his knee	complete. <b>ANS=B.</b> When complete, as in this case, the patient has no ability to
and falls to the street, and has to be carried to the sidewalk. The following day he comes to the emergency department. He is comfortable when placed in a knee	straighten the leg actively. A similar pattern is seen with patellar tendon rupture, but in this situation the patella is retracted superiorly by the quadriceps.
immobilizer, but is very tender just above the patella. He can bend his knee, but	Quadriceps rupture often produces a sulcus sign, a painful indentation just above
when he tries to straighten his leg it is so weak that he cannot move it at all.	the patella. If the patient is not seen until some time has passed since the injury,
Radiographs of the knee are shown in the Figure. What is the most likely	the gap in the quadriceps can fill with blood, so that it is no longer palpable. The
diagnosis? A) Patellar tendon rupture B) Quadriceps tendon rupture C) Tibial	clinical examination is usually diagnostic for this condition, but this patient's
plateau fracture D) Patellar subluxation E) Lumbar radiculopathy	radiograph shows some interesting findings, especially on the lateral view. A
	small shard of the patella has been pulled off and has migrated superiorly with the
R	quadriceps. The hematoma filling the gap in the quadriceps is the same density as
ĸ	the muscle, but wrinkling of the fascia over the distal quadriceps provides a clue that it is no longer attached to the superior margin of the patella. Tibial plateau
	fractures are intra-articular, so they produce a large hemarthrosis. They are
	evident on a radiograph in almost all cases. Pain inhibits movement of the knee,
	but the extreme weakness evident in this case would not be seen. Patellar
	subluxation is obvious acutely, when the patella is displaced laterally. More often,
	the patient comes in after the patella has relocated. Findings then include
	tenderness along the medial retinaculum, sometimes a joint effusion, and a positive apprehension sign when the patella is pushed gently laterally. Lumbar
	radiculopathy can cause weakness of the quadriceps if it involves the third lumbar
	root, but complete paralysis would not occur. Other findings would include
	lumbar pain radiating to the leg, possibly with paresthesias and fasciculations if
	there were significant neurologic impairment.
N <sub>D</sub>	
<b>07-075.</b> +Mus+Adm. A 43-year-old house painter presents with chronic pain in	Quervain's tenosynovitis. 07-075. The history and physical findings are most
the radial aspect of the wrist, radiating down the thumb. Her symptoms are worsened with pinching and with wrist movement. She has had to quit her job due	consistent with de Quervain's tenosynovitis, which affects the abductor pollicis longus and the extensor pollicis longus and brevis tendons. <b>ANS=D.</b> Local
to the severity of symptoms. On examination she has pain in the thumb with	corticosteroid injection is the most effective treatment. NSAIDs and splinting may
opening and closing her hand, and a Finkelstein's test is positive. The most	be somewhat effective for mild cases, but are less effective than corticosteroids.
effective treatment for this patient would be	Rest alone has not been shown to be very helpful.
A) rest	<u>Uptodate:</u> Palpation of the radial styloid: The wrist is placed in a neutral position
B) NSAIDs C) splinting	with the radial side up. The most distal portion of the radial styloid is identified, marked, and palpated for local tenderness.
D) local corticosteroid injection	marked, and pulpared for four tendernoss.
Acute therapy — Therapy in the acute setting consists of pain relief and restriction	
of thumb gripping and grasping. Once the signs and symptoms of active tenosynovitis have resolved (usually three to four weeks), gentle passive	
stretching exercises of the extensor and abductor tendons should begin. Sets of 20	
stretches, each held for five seconds, should be performed daily. <u>Thumb stretch</u>	and the second
exercise: Massage the palm and base of the thumb with lanolin cream for five	
minutes. Stretch the thumb back with gentle pressure. Perform sets of 15 to 20 per	
day.	The examiner supports the patient's arm with one hand, and asks the patient to
	extend the thumb against resistance applied by the opposite hand of the examiner.
	Sales and the second
	and the second second
Persistent symptoms — A local intralesional injection is indicated if pain or	
swelling is persistent for two to six weeks despite the above measures. The	
injection may be repeated at four to six weeks if symptoms are not reduced by 50	Finkelstein test for de Quervain's tenosynovitis: The examiner gently rotates the
percent. Injection for de Quervain's tenosynovitis: The hand is placed in a neutral position	patient's wrist ulnarly (arrow) while the patient's fingers are folded over the
and turned on the side with the radial side up. The radial styloid is identified and	thumb.
marked. The point of entry is halfway between the abductor pollicis longus and	
the extensor pollicis longus tendons at the radial styloid (about 3/8 inch proximal	
to the tip of the radial styloid). Ethyl chloride is applied to the skin for anesthesia.	
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 132 of 170 receive."	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
A 5/8 inch, 25 gauge needle is inserted at a 45° angle to a depth of 3/8 to 1/2 inch, flush against the periosteum of the radial styloid. If bone is not encountered at this depth the point of entry may have been too distal. Two to 3 mL lidocaine is injected to perform local anesthetic block; a bubble should appear. Moderate pressure to injection, a poorly distensible sac, or both may indicate chronic stenosis of the tendons. For therapeutic injection, the needle is left in place, the syringe containing the anesthetic is removed and replaced with a syringe containing 1/2 mL methylprednisolone (80 mg/mL) that is then injected.	
<b>09-109.</b> +Car+Adm. A 49-year-old white female comes to your office complaining of painful, cold finger tips which turn white when she is hanging out her laundry. While there is no approved treatment for this condition at this time, which one of the following drugs has been shown to be useful? A) Propranolol (Inderal) B) Nifedipine (Procardia) C) Ergotamine/caffeine (Cafergot) D) Methysergide (Sansert)	Raynaud's disease. <b>09-109. ANS=B.</b> At present there is no approved treatment for Raynaud's disease. However, patients with this disorder reportedly experience subjective symptomatic improvement with calcium channel antagonists, with nifedipine being the calcium channel blocker of choice. B-Blockers can produce arterial insufficiency of the Raynaud type, so propranolol and atenolol are contraindicated. Drugs such as ergotamine preparations and methysergide can produce cold sensitivity, and should therefore be avoided in patients with Raynaud's disease.
<ul> <li>10-041. +Nep+Adm. A 70-year-old male presents to your office for a follow-up visit for hypertension. He was started on lisinopril (Prinivil, Zestril), 20 mg daily, 1 month ago. Laboratory tests from his last visit, including a CBC and a complete metabolic panel, were normal except for a serum creatinine level of 1.5 mg/dL (N 0.6–1.5). A follow-up renal panel obtained yesterday shows a creatinine level of 3.2 mg/dL and a BUN of 34 mg/dL (N 8–25). Which one of the following is the most likely cause of this patient's increased creatinine level? A) Bilateral renal artery stenosis</li> <li>B) Coarctation of the aorta</li> <li>C) Essential hypertension</li> <li>D) Hyperaldosteronism</li> <li>E) Pheochromocytoma</li> </ul>	Renal artery stenosis. <b>10-041. ANS=A.</b> Classic clinical clues that suggest a diagnosis of renal-artery stenosis include the onset of stage 2 hypertension (blood pressure >160/100 mm Hg) after 50 years of age or in the absence of a family history of hypertension; hypertension associated with renal insufficiency, especially if renal function worsens after the administration of an agent that blocks the renin-angiotensin-aldosterone system; hypertension with repeated hospital admissions for heart failure; and drug-resistant hypertension (defined as blood pressure above the goal despite treatment with three drugs of different classes at optimal doses). The other conditions mentioned do not cause a significant rise in serum creatinine after treatment with an ACE inhibitor.
<ul> <li>10-092. +Nep+Euc.&gt;L Which one of the following is the best radiographic test for confirming the diagnosis of renal colic?</li> <li>A) A KUB radiograph</li> <li>B) Ultrasonography</li> <li>C) CT</li> <li>D) Intravenous pyelography</li> <li>E) MRI</li> </ul>	Renal colic. <b>10-092.</b> ANS=C. <u>CT is the gold standard for the diagnosis of renal</u> <u>colic.</u> Its sensitivity and specificity are superior to those of ultrasonography and intravenous pyelography. <u>Noncalcium stones may be missed by plain</u> <u>radiography but visualized by CT. MRI is a poor tool for visualizing stones.</u>
<ul> <li>08-230. +Nep+Adm. A patient with end-stage renal failure is found to be anemic. You suspect a vitamin B12 deficiency, but testing reveals that her vitamin B12 level is "low normal." Which one of the following laboratory test results would confirm a diagnosis of vitamin B deficiency?</li> <li>A) Low epogen</li> <li>B) Low folic acid</li> <li>C) High methylmalonic acid (MMA)</li> <li>D) Low homocysteine</li> <li>E) A normal peripheral smear</li> </ul>	Renal failure. <b>08-230.</b> anemia. Patients with renal failure often have normal vitamin B12 levels despite an actual deficiency. <b>ANS=C.</b> In this situation, the clinician can order a methylmalonic acid (MMA) level to confirm the diagnosis. Vitamin B12 is the necessary coenzyme in the metabolism of MMA to succinylcholine. Thus, in the absence of vitamin B12, MMA levels increase. Additionally, homocysteine levels would be elevated in the presence of vitamin B12 deficiency (SOR A).
<ul> <li>07-157. +Nep+Adm. You are reviewing laboratory findings in a 64-year-old male hospitalized with acute renal failure. The patient is not on any long-term medications. His renal function has previously been normal, but currently his serum creatinine level is 2.8 mg/dL (N 0.6–1.5), BUN 60 mg/dL (N 8–25), and fractional excretion of sodium (FENa) 0.75%. His urine specific gravity is 1.025, and the urine sediment shows only hyaline casts. Based on these findings, which one of the following conditions is most likely?</li> <li>A) Hypervolemia B) Acute pyelonephritis C) Interstitial nephritis</li> <li>D) Obstruction due to benign prostatic hypertrophy E) Hypovolemia</li> <li><u>Acute renal failure:</u> Abrupt decline in renal function with ↑ creatinine and ↑</li> <li>BUN over a period of several days. 1. Prerenal azotemia—↓ renal blood flow (e.g., hypotension) → ↓ GFR. Na+/H2O and urea retained by kidney. 2. Intrinsic renal—generally due to acute tubular necrosis or ischemia/toxins. Patchy necrosis leads to debris obstructing tubule and fluid backflow across necrotic tubule → ↓ GFR. Urine has epithelial/granular casts. 3. Postrenal—outflow obstruction (stones, BPH, neoplasia). Develops only with bilateral obstruction.</li> </ul>	Renal failure. Acute renal failure <b>07-157.</b> (ARF) has prerenal, renal, and postrenal causes. <b>ANS=E</b> . The approach to patients with ARF must be systematic, requiring a thorough history, medication review (including all nonprescription drugs), and careful physical examination with attention to volume status. Besides <b>creatinine</b> , <b>BUN</b> , and <b>electrolytes</b> , <b>the urinalysis</b> (including microscopic) and the fractional excretion of sodium (FENa) are essential to the initial evaluation. The FENa is very useful in separating prerenal causes from renal or postrenal causes in patients who have not been on chronic diuretic therapy. <u>A FENa &lt;1.0%</u> , as in this patient, indicates a prerenal cause. Of the possibilities listed, hypovolemia is the only condition that could result in prerenal ARF. Furthermore, a <b>BUN:creatinne ratio &gt;20</b> , a urine specific gravity <b>&gt;1.020</b> , and hyaline casts in the sediment all support the diagnosis of hypovolemia. Acute pyelonephritis may or may not result in ARF, and these patients usually have WBCs or WBC casts in the urine. Neither hypervolemia (due to fluid overload) nor benign prostatic hypertrophy would typically be associated with the laboratory findings given. Interstitial nephritis, a renal cause of ARF, would most likely result in a FENa greater than 1.0%.

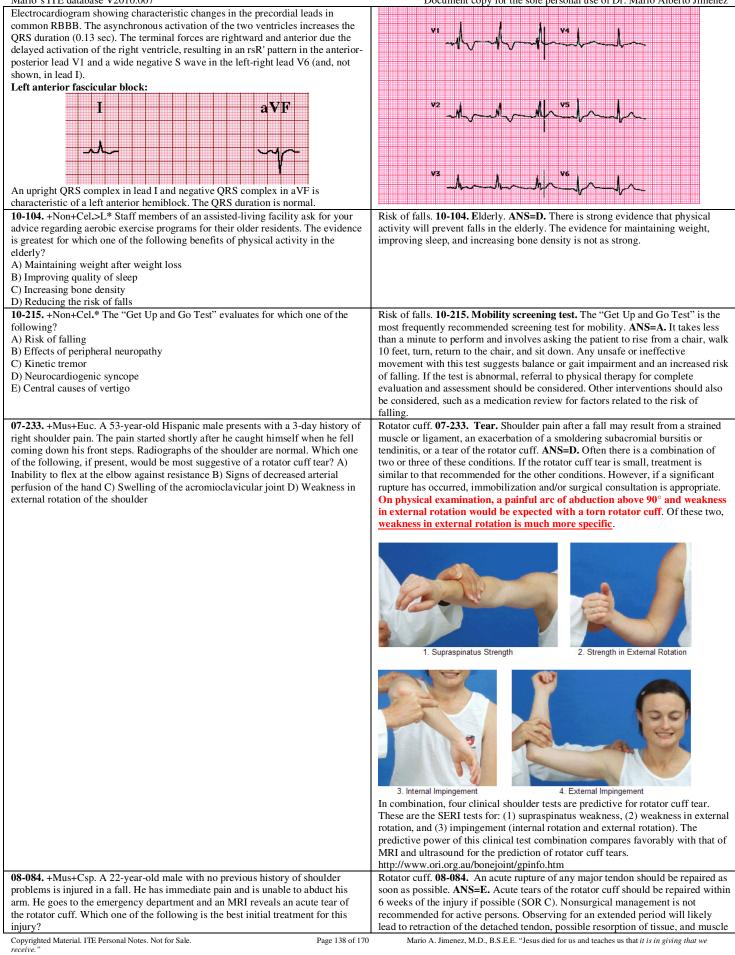
Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>07-073. +Nep+Adm. For chronic kidney disease patients whose protein excretion exceeds 1 g/24 hr, the National Kidney Foundation's Kidney Disease Outcomes Quality Initiative (KDOQI) recommends a blood pressure goal of A) ≤150/100 mm Hg</li> <li>B) ≤140/90 mm Hg</li> <li>C) ≤130/80 mm Hg</li> <li>D) ≤125/75 mm Hg</li> <li>E) ≤110/60 mm Hg</li> </ul>	<ul> <li>MGH Handbook:</li> <li>History and physical: recent procedures and medications, vital signs, volume status, signs and symptoms of obstruction, vascular disease or systemic disease</li> <li>Urine evaluation: output, urinalysis, sediment, electrolytes and osmolality</li> <li>Fractional excretion of sodium (FE<sub>Na</sub>) = (U<sub>Na</sub>/P<sub>Na</sub>)/(U<sub>C</sub>/P<sub>Cr</sub>)</li> <li>&lt; 1% →prerenal, contrast, or glomerulonephritis; &gt; 2% →ATN</li> <li>In setting of diuretics, * FE<sub>UN</sub> = (U<sub>UN</sub>/P<sub>UN</sub>)/(U<sub>C</sub>/P<sub>Cr</sub>); &lt; 35% →prerenal UN=Urea Nitrogen</li> <li>Renal U/S: r/o obstruction &amp; eval kidney size to estimate chronicity of renal failure</li> <li>Serologies (if indicated): see "Glomerular Disease"</li> <li>Renal failure. chronic kidney disease. 07-073. ANS=D. The Kidney Disease Outcomes Quality Initiative guideline recommends a blood pressure goal of &lt;130/80 mm Hg for patients with normal urinary albumin concentrations, and a blood pressure goal of &lt;125/75 mm Hg for patients whose protein excretion exceeds 1 g/24 hr.</li> </ul>
<ul> <li>08-183. +Nep+Adm. Which one of the following is true regarding medication dosage adjustments for patients with chronic kidney disease?</li> <li>A) Loading doses should usually be adjusted</li> <li>B) Adjustments typically are not necessary until the glomerular filtration rate is &lt;20 mL/min/1.73m2</li> <li>C) A normal serum creatinine value indicates that no adjustment is necessary</li> </ul>	Renal failure. Chronic kidney disease. <b>08-183. ANS=E.</b> Many medications require dosage adjustments in patients with chronic kidney disease. Medications are adjusted based on the estimated glomerular filtration rate (GFR) or creatinine clearance. Most medication adjustments require a reduction in the dose, lengthening of the dosing interval, or both. Loading doses of medications usually do not need to be adjusted. Medication adjustments are divided into three groups,
<ul> <li>D) Serum drug levels are usually required for making adjustments</li> <li>E) A reduction of dose, an increase in dosing interval, or both may be necessary</li> </ul>	based on whether the GFR is >50 mL/min/1.73m2, 10–50 mL/min/1.73m2, or <10 mL/min/1.73m2. The production and excretion of creatinine decreases in older patients, so a normal serum creatinine level does not always correlate with normal kidney function. Serum drug levels typically are not required for adjusting medications in patients with chronic kidney disease.
<ul> <li>08-185. +Nep+Adm. A 60-year-old male who has a 5-year history of diabetes mellitus is found to have an elevated creatinine level that has increased from 1.5 mg/dL to 2.0 mg/dL over the past year. His current medications include lisinopril (Prinivil, Zestril) to control blood pressure and proteinuria. He is aware that tight control of his blood glucose will help prevent the progression of renal disease, but wants to know what else he can do to preserve renal function. Which one of the following would be the most appropriate recommendation for this patient?</li> <li>A) Add an angiotensin receptor blocker (ARB)</li> <li>B) Maintain blood pressure at 140/90 mm Hg or less</li> <li>C) Follow a high-protein, low-fat diet</li> <li>D) Use erythropoietin therapy to keep the hemoglobin level above 14 g/dL</li> <li>E) Add a calcium channel blocker</li> </ul>	Renal failure. Chronic kidney disease. <b>08-185. ONTARGET study ANS= ANY</b> <b>see note:</b> "The publication of the ONTARGET study after this examination went to press indicates that none of the answers listed is an appropriate choice, and all answers were therefore counted as correct. See <i>Lancet</i> 2008;372 (9638):547-553." There are several strategies for slowing the progression of chronic kidney disease to end-stage renal disease, which requires either a renal transplant or dialysis. ACE inhibitors have been shown to be renoprotective by preventing the progression of diabetic nephropathy. There also is data showing that angiotensin receptor blockers probably are as effective as ACE inhibitors. This stament is wrong: " <b>Combining the two can further retard the progress of chronic kidney disease, but with the caveat that the two medications can increase the risk of hyperkalemia in a patient with impaired renal function, and the combination confers a higher mortality risk than either agent alone." <u>According to the</u> <b>ONTARGET study</b>, Telmisartan+Ramipril alone, and instead, the <u>combination showed higher rates of adverse events (hypotension related, including syncope and renal dysfunction)- adapted from ACC 2008. In addition to tight glucose control, cessation of smoking, weight control, and treatment of hyperlipidemia, patients should strive to control hypertension. <u>If</u> <b>proteinuria is less than 1</b> g/day, then the blood pressure goal should be 130/80 mm Hg; however, if proteinuria is more than 1 g/day, some authorities recommend a goal of 125/75 mm Hg. While good control of blood pressure is ideal, calcium channel blockers (especially the dihydropyridine class) should be used only if necessary, because they have been associated with a more rapid decline of glomerular filtration rate. Recent <u>studies have shown that</u> patients on a low-protein diet have a slower rate of deterioration in renal status. The recommended restriction is 0.6–0.8 g/g/g/ay. Anemia of chronic disease is a manifestation of chronic renal disor</u></b>
of 142/88 mm Hg, confirmed on repeat measurements. A complete metabolic panel and urinalysis reveal a serum creatinine level of 1.9 mg/dL (N 0.6–1.5) and 2+ protein in the urine. Which one of the following would be the most appropriate initial treatment? A) ACE inhibitors B) Aldosterone antagonists C) B-Blockers	recommend a diuretic as the initial pharmacologic agent for most patients with hypertension, the presence of "compelling indications" may indicate the need for treatment with antihypertensive agents that demonstrate a particular benefit in primary or secondary prevention. JNC-7 guidelines recommend ACE inhibitors (ACEIs) or angiotensin receptor blockers (ARBs) for hypertensive patients with chronic kidney disease (SOR A). First-line therapy for proteinuric kidney disease includes an ACEI or an ARB. Because these drugs can cause
D) Calcium channel blockers E) Diuretics	elevations in creatinine and potassium, these levels should be monitored. A serum creatinine level as much as 35% above baseline is acceptable in patients taking these agents and is not a reason to withhold treatment unless hyperkalemia develops. If an ACEI or an ARB does not control the hypertension, the addition of a diuretic or a calcium channel blocker may be
Convrighted Material ITE Personal Notes Not for Sale Page 134 of 170	Mario A Jimenez M.D. B.S.F.F. "Jesus diad for us and teaches us that it is in giving that wa

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez required. <b>The combination of ACEIs and diuretics may be used to control</b>
	hypertension in patients with diabetes mellitus, heart failure, or high coronary disease risk, as well as post myocardial infarction. Calcium channel blockers are recommended for managing hypertension in patients with diabetes or high coronary disease risk. B-Blockers are useful as part of combination therapy in patients with hypertension and heart failure, or post myocardial infarction.
<ul> <li>08-147. +Nep+Adm. A 47-year-old male with chronic kidney disease is being treated with epoetin alfa (Procrit). His hemoglobin level is 11.3 g/dL (N 13.0–18.0). Which one of the following would be most appropriate with regard to his epoetin alfa regimen?</li> <li>A) Increase the dosage until the hemoglobin level is &gt;12.0 g/dL</li> <li>B) Increase the frequency of injections, using the same dose</li> <li>C) Decrease the frequency of injections, using the same dose</li> <li>D) Continue the current regimen</li> </ul>	Renal failure. Chronic renal failure. <b>08-147. ANS=D.</b> In patients with renal failure, the risk for death and serious cardiovascular events is increased with higher hemoglobin levels ( $\geq 3.5$ g/dL), and it is therefore recommended that levels be maintained at 10–12 g/dL. Studies have also demonstrated less mortality and morbidity when the dosage of epoetin alfa is set to achieve a target hemoglobin of <12 g/dL.
<ul> <li>08-195. +Nep+Adm. A 57-year-old male with severe renal disease presents with acute coronary syndrome. Which one of the following would most likely require a significant dosage adjustment from the standard protocol?</li> <li>A) Enoxaparin (Lovenox)</li> <li>B) Metoprolol (Lopressor)</li> <li>C) Carvedilol (Coreg)</li> <li>D) Clopidogrel (Plavix)</li> <li>E) Tenecteplase (TNKase)</li> </ul>	Renal failure. Enoxaparin <b>08-195.</b> is eliminated mostly by the kidneys. <b>ANS=A.</b> When it is used in patients with severe renal impairment the dosage must be significantly reduced. For some indications the dose normally given every 12 hours is given only every 24 hours. Although some B-blockers require a dosage adjustment, metoprolol and carvedilol are metabolized by the liver and do not require dosage adjustment in patients with renal failure. Clopidogrel is currently recommended at the standard dosage for patients with renal failure and acute coronary syndrome. Thrombolytics are given at the standard dosage in renal failure, although hemorrhagic complications are increased.
<b>10-150.</b> +Res+Euc.>L* A 42-year-old white male develops respiratory distress 12 hours after he sustained a closed head injury and a femur fracture. A physical examination reveals a respiratory rate of 40/min. He has a pO2 of 45 mm Hg (N 75–100), a pCO2 of 25 mm Hg (N 35–45), and a blood pH of 7.46 (N 7.35–7.45). His hematocrit is 30.0% (N 37.0–49.0). Of the following, the most likely diagnosis is A) respiratory depression due to central nervous system damage B) heart failure C) adult respiratory distress syndrome (ARDS) D) hypovolemic shock E) tension pneumothorax	Respiratory failure. <b>10-150.</b> Acute respiratory failure following severe injury and critical illness has received increasing attention over the last decade. <b>ANS=C.</b> With advances in the management of hemorrhagic shock and support of circulatory and renal function in injured patients, it has become apparent that 1%–2% of significantly injured patients develop acute respiratory failure in the post-injury period. Initially this lung injury was thought to be related to a particular clinical situation. This is implied by such names as "shock lung" and "traumatic wet lung," which have been applied to acute respiratory insufficiency. It is now recognized that the pulmonary problems that follow a variety of insults have many similarities in their clinical presentation and physiologic and pathologic findings. This has led to the theory that the lung has a limited number of ways of reacting to injury and that several different types of acute, diffuse lung injury result in a similar pathophysiologic response. The common denominator of this response appears to be injury at the alveolar-capillary interface, with resulting leakage of proteinaceous fluid from the intravascular space into the interstitium and subsequently into alveolar spaces. It has become acceptable to describe this entire spectrum of acute diffuse injury as adult respiratory distress syndrome (ARDS). The syndrome of ARDS can occur under a variety of circumstances and produces a spectrum of clinical severity from mild dysfunction to progressive, eventually fatal, pulmonary failure. Fortunately, with proper management, pulmonary failure is far less frequent than milder abnormalities.
07-212. +Neu+Adm. Which one of the following palliative measures is appropriate for a patient dying of end-stage Alzheimer's disease who is experiencing the "death rattle" in the final hours of life? A) Subcutaneous administration of fluids B) Rectal administration of fluids C) Glycopyrrolate (Robinul) D) Bethanechol (Urecholine) E) Rivastigmine (Exelon)	Respiratory secretion medication. 07-212. Glycopyrrolate. ANS=C. Anticholinergic medications, such as glycopyrrolate, may be used effectively to dry the secretions that cause the "death rattle" in terminally ill patients. Bethanechol and rivastigmine are both cholinergic, which has the opposite effect. Administration of fluids by hypodermoclysis or proctoclysis would increase respiratory secretions, thereby increasing the symptoms.
<ul> <li>10-068. +Pbs+Adm.&gt;L?* A 71-year-old female with end-stage lung cancer was recently extubated and is awaiting transfer to hospice. She is awake and confused and has significant respiratory secretions. Which one of the following medications used for reducing respiratory secretions is LEAST likely to cause central nervous system effects such as sedation?</li> <li>A) Atropine</li> <li>B) Transdermal scopolamine (Transderm Scop)</li> <li>C) Hyoscyamine (Levsin)</li> </ul>	Respiratory secretion medication. <b>10-068.</b> <u>Glycopyrrolate does not cross the</u> <u>blood-brain barrier, and is therefore least likely to cause central nervous</u> <u>system effects such as sedation</u> . <b>ANS=D.</b> The other medications listed do cross the blood-brain barrier. Hyoscyamine (Levsin) is in Beers criteria list; a list of drugs that should generally be avoided in older adults. See <b>08-146.</b>
D) Glycopyrrolate (Robinul) 07-029. +Non+Cca. One of your patients recently adopted a 4-year-old girl and brings her to your office for an initial visit. When reviewing the child's history, you discover that the birth mother has retinitis pigmentosa. When counseling the adoptive mother, you would advise her that this disease often is initially manifested during adolescence as A) eye pain B) night blindness C) color blindness D) tunnel vision E) inability to see a whiteboard at the front of the class	Retinitis pigmentosa. <b>07-029.</b> Retinitis pigmentosa has multiple inheritance patterns, including autosomal dominant, autosomal recessive, and X-linked recessive. <b>ANS=B.</b> Symptoms can begin during either childhood or adulthood, but it classically presents as night blindness during adolescence, secondary to the initial degeneration of rods. As the disease progresses peripheral vision worsens but central vision is frequently spared, so that reading is still possible. Tunnel vision follows as peripheral vision worsens. Later, as the cones degenerate, color blindness and central visual loss progress. Eye pain is not a part of this process.
<b>10-159.</b> +Non+Adm. A 12-year-old female is brought to your office with an 8-day history of sore throat and fever, along with migratory aching joint pain. She is otherwise healthy and has no history of travel, tick exposure, or prior systemic illness. A physical examination is notable for exudative pharyngitis; a blanching, Copyrighted Material. ITE Personal Notes. Not for Sale. Page 135 of 170	Rheumatic fever, <b>10-159</b> . Acute. <b>ANS=D</b> . Acute rheumatic fever is very common in developing nations. It was previously rare in the U.S., but had a resurgence in the mid-1980s. It is most common in children ages 5–15 years. The diagnosis is based on the Jones criteria. <b>Two major criteria</b> , or one major criterion and two Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
sharply demarcated macular rash over her trunk; and a III/VI systolic ejection	minor criteria, plus evidence of a preceding streptococcal infection, indicate a
murmur. Joint and neurologic examinations are normal. A rapid strep test is	high probability of the disease. Major criteria include carditis, migratory
positive and her C-reactive protein level is elevated. Of the following, the most	polyarthritis, erythema marginatum, chorea, and subcutaneous nodules.
likely diagnosis is A) juvenile rheumatoid arthritis	Minor criteria include fever, arthralgia, an elevated erythrocyte sedimentation rate or C-reactive protein (CRP) level, and a prolonged pulse
B) infective endocarditis	rate interval on EKG. The differential diagnosis is extensive and there is no
C) Kawasaki syndrome	single laboratory test to confirm the diagnosis. This patient meets one major
D) acute rheumatic fever	criterion (erythema marginatum rash) and three minor criteria (fever, elevated
E) Lyme disease	CRP levels, and arthralgia). Echocardiography should be performed if the patient
	has cardiac symptoms or an abnormal cardiac examination, to rule out rheumatic carditis
<b>07-017.</b> +Mus+Adm. A 50-year-old female reports a 1-month history of pain in	Rheumatoid arthritis. 07-017. Rheumatoid arthritis is most often symmetric at
her wrists. She does not recall any injury. On examination both wrists are warm	presentation and particularly affects the wrists and other extremity joints
but not red. They feel boggy to touch and lack 30E of both flexion and extension.	that have a high ratio of synovium to articular cartilage. ANS=A. In the early
No other joints are affected. She feels fatigued and unwell, but attributes this to	months of the disease, rheumatoid factor is often negative, even in cases where it
her busy schedule. Radiographs of her wrists are normal. Laboratory findings are unremarkable except for a mildly elevated erythrocyte sedimentation rate and a	will be positive later. Although radiographs and laboratory tests are helpful, the diagnosis is primarily clinical. Osteoarthritis of the wrists usually involves the
negative rheumatoid factor. What is the most likely diagnosis? A) Rheumatoid	carpal-metacarpal joint of the thumb primarily, and the joint would be red only if
arthritis B) Osteoarthritis C) Inapparent injury D) Fibromyalgia E) Lyme disease	there were an injury. Fibromyalgia usually involves the soft tissue of the trunk,
	and does not produce visible inflammation. Lyme disease can cause a variety of
	joint diseases, but not chronic symmetric arthritis.
Alternatives to methotrexate — For those with contraindications to the use of methotrexate (MTX), the following nonbiologic and biologic DMARDs, and	<b><u>Uptodate:</u></b> The decision to add a disease-modifying antirheumatic drug (DMARD) depends upon the relative activity of the disease, such as the number
combination therapies can be considered: •Sulfasalazine alone; •Leflunomide	of inflamed joints, the severity of inflammation, the number of poor prognostic
alone; •Etanercept alone; •Adalimumab alone; •Infliximab alone; •Combination of	signs, and the degree of functional impairment.
hydroxychloroquine and sulfasalazine; •Anakinra alone.	Antimalarial drugs — An antimalarial drug may be appropriate for some
The following considerations affect choice of agent: •The TNF inhibitors	<b>patients with moderately active RA</b> , particularly those who lack poor prognostic
(etanercept, adalimumab, or infliximab) are preferred to anakinra (an interleukin-1 receptor antagonist), because the latter is the least potent of the	features and are at the milder end of the spectrum of disease activity. Such patients have fewer joints involved and less swelling and tenderness.
available biologic DMARDs. (See "Overview of biologic agents in the rheumatic	Hydroxychloroquine at doses up to 6.5 mg/kg is often selected (table 2) but
diseases", section on 'Anakinra'.)	other antimalarial drugs may also be of benefit. (See "Antimalarial drugs in the
•Leflunomide, etanercept, adalimumab, and infliximab are	treatment of rheumatic disease".)
<b>CONTRAINDICATED in women who are pregnant or nursing</b> . The anti-TNF agents are contraindicated as well in patients with active infection and those at	Sulfasalazine — <u>Sulfasalazine (1000 mg two or three times daily) is preferred</u> to antimalarial drugs in patients with more symptoms and signs of active
high risk of reactivation of tuberculosis unless given prophylactic antituberculous	synovitis [5]. Its use as the only DMARD in patients with early, moderately
therapy.	active RA should generally be limited to patients who lack poor prognostic factors
•In patients unable to take MTX, etanercept or adalimumab is generally	or are poor candidates for methotrexate. (See "Sulfasalazine in the treatment of
preferred over infliximab unless infliximab is taken together with another	rheumatoid arthritis" and 'Alternatives to methotrexate' below.)
<b>immune modulating drug, such as leflunomide.</b> Infliximab alone can lead to the development of human antichimeric antibodies, which are associated with	Methotrexate — <u>Methotrexate (MTX) is commonly selected as early therapy</u> for moderately active RA in North America and Europe, except for patients
diminished efficacy and an increased risk of side effects [12].	with liver disease and women who are contemplating becoming pregnant or
	are pregnant [8,9]. Use of methotrexate in RA is discussed in detail elsewhere,
Laboratory features — Rheumatoid factor (RF), antibodies to citrullinated peptides, changes in the serum levels of acute phase reactants, and other	but the major issues will be briefly reviewed here. (See "Use of methotrexate in the treatment of rheumatoid arthritis".)
laboratory abnormalities are associated with RA. <u><b>RFs and antibodies to</b></u>	the frequencie of frequencies and frequencies ()
citrullinated proteins and peptides are both useful in diagnosis. Whether both	
tests should be routinely performed has still not been proven by large population	
surveys [1], but given the lack of complete overlap between the tests, it is clear that a positive reaction in either increases diagnostic sensitivity and a positive	
result in both increases specificity. Therefore, <b>in the evaluation of individual</b>	
patients with a polyarthritis in whom the diagnosis is uncertain, both tests	
should be performed. Acute phase reactants such as the erythrocyte	
sedimentation rate (ESR) and C-reactive protein (CRP) are sometimes helpful in the diagnosis of RA, but are of greater use in monitoring disease activity.	
<b>08-126.</b> +Mus+Adm. Which one of the following tests is most specific for	Rheumatoid arthritis. <b>08-126.</b> Rheumatoid arthritis is primarily a clinical
diagnosing rheumatoid arthritis?	diagnosis and no single laboratory test is considered definitively diagnostic.
A) Anti-cyclic citrullinated peptide (anti-CCP) antibody	ANS=A. Anti-cyclic citrullinated peptide (anti-CCP) antibody is
B) Antinuclear antibody	recommended by rheumatologists to improve the specificity of testing for
C) Erythrocyte sedimentation rate D) Serum complement levels	rheumatoid arthritis. Anti-CCP is more specific than rheumatoid factor, and may predict erosive disease more accurately. Antinuclear antibody has limited
E) Anti-Sm antibody	usefulness for the diagnosis of rheumatoid arthritis. Sm antigen is useful to help
·	diagnose systemic lupus erythematosus. Nonspecific changes in complement
	levels are seen in many rheumatologic disorders. The erythrocyte sedimentation
	rate is useful in monitoring disease activity and the course of rheumatoid arthritis, but is not specific.
<b>08-191.</b> +Mus+Adm. Which one of the following drugs used to treat rheumatoid	Rheumatoid arthritis. <b>08-191.</b> Hydroxychloroquine, originally developed as an
arthritis can delay the progression of the disease?	antimalarial drug, is a well-known disease-modifying agent that can slow the
A) Aspirin	progression of rheumatoid arthritis. ANS=E. Aspirin, indomethacin, and
B) Ibuprofen C) Indomethacin (Indocin)	ibuprofen are anti-inflammatory agents. They relieve pain and improve mobility, but do not alter the progression of the disease. Capsaicin, a topical substance-P
D) Capsaicin (Zostrix)	depleter, can relieve pain symptoms.
E) Hydroxychloroquine (Plaquenil)	
09-046. +Mus+Csp. A 50-year-old female with significant findings of rheumatoid	Rheumatoid arthritis. 09-046. Aatlantoaxial subluxation preop eval. Ans=E. While
arthritis presents for a preoperative evaluation for planned replacement of the	all of the options listed may have some value in evaluating the preoperative status
metacarpophalangeal joints of her right hand under general anesthesia. She	of a patient with long-standing rheumatoid arthritis, <b><u>imaging of the patient's</u></b>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
generally enjoys good health and has had ongoing medical care for her illness. Of the following, which one would be most important for preoperative assessment of this patient's surgical risk? A) Resting pulse rate B) Resting oxygen saturation C) Erythrocyte sedimentation rate D) Rheumatoid factor titer E) Cervical spine imaging	cervical spine to detect atlantoaxial subluxation would be most important for preventing a catastrophic spinal cord injury during intubation. In many cases, cervical fusion must be performed before other elective procedures can be contemplated. Although rheumatoid arthritis may influence oxygen saturation and the erythrocyte sedimentation rate, these tests would not alert the surgical team to the possibility of significant operative morbidity and mortality. Resting pulse rate and rheumatoid factor are unlikely to be significant factors in this preoperative scenario.
<ul> <li>07-039. +Res+Adm. A 35-year-old African-American male presents with a 3-day history of increasing cough, sinus pressure, and low-grade fever. His past medical history is positive only for hypertension.</li> <li>Which one of the following would be most appropriate at this point?</li> <li>A) Explaining that most cases of sinusitis resolve without treatment</li> <li>B) Ordering sinus films to determine the most appropriate course of care</li> <li>C) Prescribing high-dose pseudoephedrine and increased fluids</li> <li>D) Prescribing a 7-day course of amoxicillin</li> <li>E) Prescribing a 10-day course of levofloxacin (Levaquin)</li> </ul>	Rhinosinusitis. 07-039. ANS=A. In patients with a sinus infection, <u>acute</u> <u>bacterial rhinosinusitis should be diagnosed and treated with antibiotics only</u> <u>if symptoms have not improved after 10 days or if they worsen after 5–7</u> <u>days.</u> First-line therapy for acute bacterial sinusitis is amoxicillin. While increasing fluid intake might be helpful, taking <u>pseudoephedrine to reduce</u> <u>symptoms would be a poor choice in a patient with hypertension</u> .
<ul> <li>b) Fresching a to day control of reformating (Evidgini)</li> <li>c) Tresching a to day control of reformating (Evidgini)</li> <li>c) Tresching a to day control of reformating (Evidgini)</li> <li>c) Tresching a to day control of the following would perform the set of the set of</li></ul>	Rhinosinusitis. 07-092. ANS=E. Guidelines recommend that <u>if symptoms of</u> <u>rhinosinusitis have not improved after 3–5 days, antibiotic resistance should</u> <u>be considered and broadening the spectrum of coverage is appropriate.</u> <u>Levofloxacin is recommended in this situation</u> . Given the symptoms of an infectious etiology, antihistamines alone are not appropriate. While high-dose amoxicillin is recommended as a first-line therapy, it is not recommended for treatment failures. Resistance to azithromycin is fairly high after an initial antibiotic failure.
<b>09-118.</b> +Res+Adm. A 38-year-old female with seasonal allergies presents with a 10-day history of sinus pain and purulent nasal drainage, along with temperature elevations up to 102°F (39°C). She has been taking nonprescription loratidine (Claritin), but says it provides little relief. She asks you to prescribe an antibiotic. Which one of the following would be most appropriate at this point? A) Continuation of symptomatic treatment only B) In-office nasal irrigation C) Amoxicillin D) Azithromycin (Zithromax) E) Imaging of the sinuses	Rhinosinusitis. <b>09-118.</b> ANS=C. The American Academy of Otolaryngology published guidelines for the diagnosis and management of rhinosinusitis in adults in 2007. They cite reasonable evidence for initiating antibiotic treatment in patients with symptoms persisting for 7–10 days that are not improving or worsening (SOR B). <u>Amoxicillin should be the first-line agent, with</u> <u>azithromycin or trimethroprim/sulfamethoxazole recommended for</u> <u>penicillinallergic patients.</u> Broader-spectrum antibiotics such as fluoroquinolones should be reserved for treatment failures. Imaging is indicated only if other etiologies are being considered or if the problem is recurrent.
<b>08-150.</b> +Int+Adm. A 20-year-old female presents with a sudden onset of fever, chills, and headache of 2 days' duration, and now has a pink blanching rash. The rash covers most of her body, including the palms of her hands and the soles of her feet, but not including her face. She recently returned from a camping trip, but has had no recent contact with anyone who has been ill. Which one of the following would be the most appropriate treatment for this patient's symptoms? A) Doxycycline (Adoxa), 100 mg twice daily for 10 days B) Azithromycin (Zithromax), 500 mg daily for 3 days C) Cephalexin (Keflex), 500 mg twice daily for 10 days D) Penicillin, 500 mg twice daily for 10 days E) Reassurance	Rickettsial illness. <b>08-150. ANS=A.</b> This is a classic description of rickettsial illness: a history of outdoor activity, the sudden onset of fever, chills, and rash on the palms of the hands and the soles of the feet. Penicillin, cephalexin, and azithromycin do not cover rickettsia. Reassurance would be inappropriate because this condition can be life threatening and should always be treated.
<b>09-065.</b> +Non+Cca. A 7-year-old Hispanic female has a 3-day history of a fever of 40.0°C (104.0°F), muscle aches, vomiting, anorexia, and headache. Over the past 12 hours she has developed a painless maculopapular rash that includes her palms and soles but spares her face, lips, and mouth. She has recently returned from a week at summer camp in Texas. Her pulse rate is 140 beats/min, and her blood pressure is 80/50 mm Hg in the right arm while lying down. Which one of the following is the most likely diagnosis? A) Mucocutaneous lymph node syndrome B) Leptospirosis C) Rocky Mountain spotted fever D) Scarlet fever E) Toxic shock syndrome	Rickettsial illness. 09-065. Rocky Mountain spotted fever. ANS=C. While all of the diagnoses listed are in the differential, the most likely is Rocky Mountain spotted fever (RMSF) (SOR C). It occurs throughout the United States, but is primarily found in the South Atlantic and south central states. It is most common in the summer and with exposure to tall vegetation (e.g., while camping, hiking, or gardening), and is transmitted by ticks. The diagnosis is based on clinical criteria that include fever, hypotension, rash, myalgia, vomiting, and headache (sometimes severe). The rash associated with RMSF usually appears 2–4 days after the onset of fever and begins as small, pink, blanching macules on the ankles, wrists, or forearms that evolve into maculopapules. It can occur anywhere on the body, including the palms and soles, but the face is usually spared. Mucocutaneous lymph node syndrome is a similar condition in children (usually <2 years old), but symptoms include changes in the lips and oral cavity, such as strawberry tongue, redness and cracking of the lips, and erythema of the oropharyngeal mucosa. Leptospirosis is usually accompanied by severe cutaneous hyperesthesia. The patient with scarlet fever usually has prominent pharyngitis and a fine, papular, erythematous rash. Toxic shock syndrome may present in a similar fashion, but usually in postmenarchal females.
<b>09-140.</b> +Car+Adm. A 60-year-old male complains of multiple episodes of lightheadedness over the past 3 months, saying he felt as if he might "pass out" while sitting at his desk. His past medical history and a physical examination are unremarkable. An EKG shows right bundle branch block and left anterior hemiblock. Which one of the following would be the most appropriate next step? A) Echocardiography B) Cardiac event monitoring C) Hospital admission for pacemaker insertion D) Immediate initiation of aspirin and metoprolol (Lopressor)	Right bundle branch block, left anterior hemiblock. <b>08-150. ANS=B.</b> This patient's EKG demonstrates a right bundle branch block, as well as a left anterior hemiblock. This "trifascicular block" puts the patient at risk for tachyarrhythmias and bradyarrhythmias. Given the patient's complaint of near-syncope, a heart monitoring study would be most appropriate. An echocardiogram may be helpful eventually to assess cardiac function. Although the patient is at risk for heart block, immediate hospitalization is not indicated. Uptodate:

Document copy for the sole personal use of Dr. Mario Alberto Jimenez



Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
A) Observation without treatment for 1 month	atrophy.
B) Immobilization for 1 month C) Physical therapy for 1 month	
D) Corticosteroid injection	
E) Surgical repair	
<ul> <li>10-098. +Mus+Csp. A 37-year-old recreational skier is unable to lift his right arm after falling on his right side with his arm elevated. Radiographs of the right shoulder are negative, but diagnostic ultrasonography shows a complete rotator cuff tear. Which one of the following is most accurate with regard to treatment? A) Surgery is most likely to be beneficial if performed less than 6 weeks after the injury</li> <li>B) Treatment with NSAIDs for 3 months is recommended before further intervention</li> <li>C) Subacromial corticosteroid injections will provide functional and symptomatic relief in the majority of patients</li> <li>D) Surgical repair of rotator cuff tears to restore function is necessary only in geriatric patients</li> <li>E) Therapeutic ultrasound of the shoulder will make the condition tolerable during spontaneous healing</li> </ul>	Rotator cuff. <b>10-098.</b> Tear. Surgery for rotator cuff tears is most beneficial in young, active patients. <b>ANS=A.</b> In cases of acute, traumatic, complete rotator cuff tears, repair is recommended in less than 6 weeks, as muscle atrophy is associated with reduced surgical benefit (SOR B). Advanced age and limited strength are also associated with reduced surgical benefit. NSAIDs are used for analgesia. Their benefit has not been shown to exceed that of other simple analgesics, and the side-effect profile may be higher. Corticosteroid injections will not improve a complete tear. Some experts also recommend avoiding their use in partial or complete tendon tears. Therapeutic ultrasound does not add to the benefit from range-of-motion exercises and exercises to strengthen the involved muscle groups.
<ul> <li>08-204. +Pbc+Cca. Which one of the following is true regarding the schedule for administering rotavirus vaccine?</li> <li>A) The first dose should be given prior to 12 weeks of age</li> <li>B) The vaccine should be given at 2 months, 6 months, and 12 months of age</li> <li>C) A catch-up vaccination can be administered up to 3 years of age</li> <li>D) The minimum time between doses is 2 weeks</li> </ul>	Rotavirus. <b>08-204.</b> Vaccine. Rotavirus vaccine is an oral vaccine recommended for infants in a 3-dose schedule at ages 2, 4, and 6 months. <b>ANS=A.</b> The first dose should be given between 6 and 12 weeks of age, with additional doses given at 4-to 10-week intervals. The vaccine cannot be initiated after 12 weeks of age and should not be administered after 32 weeks of age. The first rotavirus vaccine was taken off the market in 1999 after an increased risk of intussusception was noted in infants when the first dose of the vaccine was given after 12 weeks of age. Because of this, the two vaccines licensed in 2006 carry the recommendation that the vaccine not be initiated in infants over 12 weeks of age. There is no data
<b>08-228.</b> +Gas+Cca. The mother of an 11-month-old male asks about the viral	regarding safety and efficacy after this age. Rotavirus. <b>08-228.</b> Vaccine. Rotavirus vaccine (RotaTeq) was licensed in
gastroenteritis vaccine. You advise that it is	February 2006 to protect against viral gastroenteritis. ANS=C. The Advisory
A) routinely given at the 12-month visit B) associated with an increased risk for intussusception	Committee on Immunization Practices recommends the routine vaccination of infants with three doses to be given at 2, 4, and 6 months of age. The first dose
C) initiated at 6–12 weeks of age	should be given between 6 and 12 weeks of age, and subsequent doses should be
D) indicated only for immunocompromised children	given at 4- to 10-week intervals, but all three doses should be administered by 32
E) indicated only for children attending day care	weeks of age. Unlike the vaccine RotaShield, which was marketed in 1999, RotaTeq is not known to increase the risk for intussusception.
<ul> <li>10-106. +Pbs+Cca.&gt;L?* You see a newly adopted 5-month-old for his first well child visit. The parents ask when the child can sit in a safety seat in the car facing forward. You would advise that the child should face rearward until he is at least A) 12 months of age AND weighs 20 lb</li> <li>B) 15 months of age AND weighs 25 lb</li> <li>C) 15 months of age OR weighs 25 lb</li> <li>D) 18 months of age AND weighs 30 lb</li> <li>E) 18 months of age OR weighs 30 lb</li> </ul>	Safety seat. <b>10-106. ANS=A.</b> If a child faces forward in a crash, the force is distributed via the harness system across the shoulders, torso, and hips, but the head and neck have no support. Without support, the infant's head moves rapidly forward in flexion while the body stays restrained, causing potential injury to the neck, spinal cord, and brain. In a rear-facing position, the force of the crash is distributed evenly across the baby's torso, and the back of the child safety seat supports and protects the head and neck. For these reasons, the rear-facing position should be used until the child is at least 12 months old and weighs at least 20 lb (9 kg). For example, a 13-month-old child who weighs 19 lb should face rearward, and a 6-month-old child who weighs 21 lb should also face rearward.
<b>07-050.</b> +Int+Com. Which one of the following is true concerning scabies? A) It is typically spread by contact with infected bedding	Scabies. 07-050. The mite burrow confirms the diagnosis of scabies, but can be missed if the skin is excoriated. ANS=B. Scabies spreads by direct skin contact,
B) The classic diagnostic sign is the mite burrow	and is seldom spread by transfer from bedding. Children frequently have scabies
C) The distribution of lesions is the same in adults and children D) The absence of a history of itching among family members excludes the	lesions on the face or neck, while this rarely happens in adults. Scabies infections usually cause itching among several family members, but they may not admit it.
diagnosis	Scabies can recur after treatment, usually because of incorrect or insufficient
E) Recurrence of symptoms after treatment indicates another diagnosis	application of the treatment.
<b>09-164.</b> +Int+Adm. Which one of the following is the preferred treatment for scabies?	Scabies. <b>09-164.</b> Permethrin and lindane are the two most studied topical treatments for scabies. <b>ANS=C. A Cochrane meta-analysis of four randomized</b>
A) Topical benzoyl peroxide, 10%	trials comparing these agents indicates that a single overnight application of
B) Topical crotamiton (Eurax), 10%	permethrin is more effective than lindane (odds ratio for clinical failure, 0.66;
C) Topical permethrin (Elimite), 5% D) Topical lindane, 1%	95% confidence interval, 0.46–0.95). The potential neurotoxicity of lindane, especially with repeated applications, has limited its use. Other topical treatments
E) Oral ivermectin (Stromectol), 200 mg	include benzoyl benzoate and crotamiton. Crotamiton has significantly less
	efficacy than permethrin at 4 weeks (61% versus 89%). Several controlled trials have assessed the efficacy of a single dose of ivermectin (200 _g/kg) for the treatment of scabies. In one placebo-controlled trial, 37 of 50 patients treated with ivermectin (74%) were cured.
<b>08-151.</b> +Psy+Mhe A previously healthy 27-year-old female has had a	Schizophrenia. 08-151. ANS=C. The diagnosis of schizophrenia requires two or
progressive decline in social and occupational functioning over the past year, along with a withdrawal from activities. In addition, her family notes that over the	more of the following characteristic symptoms (each present for a significant portion of time during a 1-month period): delusions, hallucinations, disorganized
past 4 months she has had paranoid delusions, exhibited disorganized speech, and	speech, grossly disorganized or catatonic behavior, and negative symptoms (i.e.,
heard voices. She has not had any major depressive or manic episodes. A physical	affective flattening, alogia, or avolition). In addition, one or more major areas of
examination reveals a disheveled female with a flat affect, poor eye contact, and loosely-associated speech. A toxicology screen and basic laboratory analysis are	functioning, such as work, interpersonal relationships, or self-care, should be markedly below the level seen prior to the onset of symptoms. Schizoaffective and
unremarkable. She is not on any medications. Which one of the following is the	mod disorders, substance abuse, medical illness or medication-induced disorders,
most likely diagnosis?	and pervasive developmental disorders should be ruled out. Brief psychotic
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 139 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>A) Brief psychotic disorder</li> <li>B) Delirium</li> <li>C) Schizophrenia</li> <li>D) Mood disorder with psychotic features</li> <li>E) Delusional disorder</li> </ul>	disorder is characterized by the presence of delusions, hallucinations, disorganized speech, or grossly disorganized or catatonic behavior lasting at least 1 day but less than 1 month. Delirium may present with psychotic symptoms but is the direct physiologic consequence of a general medical condition and usually has a much shorter course. Mood disorders with psychotic features can be ruled out if no major depressive, manic, or mixed episodes have occurred concurrently with the active-phase symptoms, or if the duration of mood disturbance is brief compared to the overall duration of active and residual symptoms. Delusional disorder does not cause bizarre delusions and also lacks other characteristic symptoms of schizophrenia such as hallucinations, disorganized speech or behavior, or prominent negative symptoms.
<b>07-172.</b> +Psy+Mhe. Which one of the following statements is true regarding the use of light therapy to treat seasonal affective disorder? A) It generally is most effective when administered in the morning B) Duration of exposure to light is the main determinant of efficacy C) It is not known to precipitate mania D) Any light source may be used for treatment	Seasonal affective disorder. 07-172. Light therapy generally is most effective when administered in the morning. ANS=A. Early morning light helps regulate the circadian pattern of melatonin secretion, whereas light in the evening can delay the normal melatonin phase shift. The dosage of light therapy most often found to be effective is 5000 lux daily. This can be given as 2500 lux for 2 hours or 10,000 lux for 30 minutes. Like drug therapy for depression, light therapy does carry a risk of precipitating mania. Patients should be instructed to use light therapy units that are specifically designed for treatment of seasonal affective disorder. Other light sources may not provide adequate brighypertensioness or ultraviolet light filtration.
09-113. +Neu+Euc. A 32-year-old female experiences an episode of	Seizure vs. pseudoseizures. <b>09-113. ANS=A.</b> Up to 20% of patients diagnosed
unresponsiveness associated with jerking movements of her arms and legs. Which one of the following presentations would make a diagnosis of true seizure more likely? A) Post-event confusion B) Eye closure during the event C) A history of fibromyalgia D) A history of chronic back pain E) A normal serum prolactin level after the event	with epilepsy actually have pseudoseizures. Eye closure throughout the event is uncommon in true seizures, and a history of fibromyalgia or chronic pain syndrome is predictive of pseudoseizures. If obtained within 20 minutes of the event, a serum prolactin level may be useful in differentiating a true seizure from a pseudoseizure. An elevated level has a sensitivity of 60% for generalized tonic- clonic seizures and 46% for complex partial seizures. Other features suggestive of seizure activity include tongue biting, the presence of an aura, postictal confusion, and focal neurologic signs.
<b>07-132.</b> +Neu+Euc. A 36-year-old male with a history of a seizure disorder is brought to the emergency department with generalized tonic-clonic activity. Emergency medical personnel report this has been ongoing for 15 minutes. After initial resuscitative measures, the preferred medication in this situation is A) phenytoin (Dilantin) B) fosphenytoin (Cerebyx) C) diazepam (Valium) D) lorazepam (Ativan) E) valproate sodium (Depacon)	Seizure. <b>07-132.</b> Status epilepticus. <b>ANS=D.</b> This patient presents in status epilepticus. Although diazepam has long been an effective treatment, lorazepam has emerged as the preferred agent because of pharmacologic properties that should give it a longer duration of action than diazepam. Phenytoin and fosphenytoin are limited by potentially serious adverse effects, such as hypotension. Valproic acid is not FDA approved for status epilepticus. Hint: Lor(d)azepam is the Lord of treatment of generalized tonic-clonic seizures.
<b>07-161.</b> +Neu+Cel. A 75-year-old male is brought to your office 1 month after a stroke that involved the left anterior cerebral artery, manifested by leg weakness, initial incontinence, and slowness in mentation. He experienced seizure activity on the second day after his stroke, but this was controlled by phenytoin (Dilantin). He has improved significantly and is now ambulatory. His family states that he now has episodic confusion, sleepiness, and clumsiness, which is preceded by paresthesias and dizziness, although no tonic-clonic activity has been noted. He remains very drowsy for several hours after these episodes. He was wearing a cardiac monitor during one episode, but it showed nothing remarkable. His phenytoin level is therapeutic, and a CBC, metabolic profile, and magnesium level are all normal. Which one of the following would be the most appropriate next step? A) Discontinue the phenytoin B) Add phenobarbital to the phenytoin C) Begin bupropion (Wellbutrin) D) Begin modafinil (Provigil) E) Begin lamotrigine (Lamictal)	Seizure. 07-161. Epilepsy geriatric population. ANS=E. Up to 50% of cases of epilepsy in the geriatric population result from cerebrovascular disease. Risk factors for post-stroke epilepsy include cortical involvement, hemorhage, and large size. Approximately 35% of those who experience an acute stroke-related seizure develop post-stroke epilepsy, compared to only 9% of those who do not have acute seizure activity. The most common seizures in the elderly are complex partial seizures, but they do not have the typical presentation seen in younger people (aura, déjà vu, olfactory hallucinations). Geriatric patients are more likely to have nonspecific preceding symptoms, such as vaguely localized paresthesias, dizziness, and muscle cramps. Those present may note episodic confusion, drowsiness, or clumsiness more than tonic-clonic movements. The postictal state is likely to be prolonged in the elderly. Misdiagnosis of these seizures is very common, with the diagnosis often delayed as much as 2 years from the time of the stroke. The most valuable diagnostic tool is a reliable history from those who witness the event. Treating seizures in the elderly by using anti-epileptic drugs (AEDs) is complicated by a number of factors. Pharmacokinetics are influenced by decreases in hepatic metabolism, renal elimination, plasma proteins, and protein binding. Many elderly patients are on a multiple-medication regimen that increases the risk of osteoporosis. The elderly also are more sensitive to side effects. The choice of AEDs should be individualized, although many experts suggest early use of newer AEDs such as topiramate, gabapentin, lamotrigine, or levetiracetam because of fewer side effects and better pharmacokinetics. Monotherapy is preferred, if possible, and older drugs are less expensive, but limited by side effects. In the case closerised here, the patient is having breakthrough seizures despite therapeutic levels of phenytoin. Switching to lamotrigine would be preferable and is less likely to cause side effects. When
<b>08-053.</b> +Neu+Cca. You see a 20-month-old male approximately 1 hour after he had a generalized seizure that lasted 2–3 minutes according to his mother. His past medical history is unremarkable except for two episodes of otitis media. On examination his temperature is 38.9°C (102.0°F), and he is awake, interactive, and consolable, with obvious otitis media of the left ear. A neurologic examination is unremarkable, and there are no meningeal signs. Which one of the following would be most appropriate at this point?	Seizure. <b>08-053.</b> Febrile. This patient had a classic simple febrile seizure and no additional diagnostic studies are recommended. <b>ANS=E.</b> A lumbar puncture following a seizure is not routinely recommended in a child over 18 months of age, since by that age a patient with meningitis would be expected to demonstrate meningeal signs and symptoms or clinical findings suggesting an intracranial infection. There is no evidence to suggest that routine blood tests or neuroimaging studies are useful in a patient following a first simple febrile seizure, and it has not
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 140 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>A) Lumbar puncture</li> <li>B) Electroencephalography</li> <li>C) Neuroimaging studies</li> <li>D) Serum levels of electrolytes, calcium, phosphate, and magnesium, plus a blood glucose level and a CBC</li> <li>E) No diagnostic studies at this time</li> </ul>	been shown that electroencephalography performed either at the time of presentation or within the following month will predict the likelihood of recurrence.
<ul> <li>10-021. +Psy+Mhe. &gt;L* The preferred method for diagnosing psychogenic nonepileptic seizures is</li> <li>A) inducing seizures by suggestion</li> <li>B) postictal prolactin levels</li> <li>C) EEG monitoring</li> <li>D) video-electroencephalography (vEEG) monitoring</li> <li>E) brain MRI</li> </ul>	Seizures. <b>10-021.</b> Psychogenic nonepileptic. <b>ANS=D.</b> Inpatient <u>video-electroencephalography (vEEG) monitoring is the preferred test for the diagnosis of psychogenic nonepileptic seizures</u> (PNES), and is considered the gold standard (SOR B). Video-EEG monitoring combines extended EEG monitoring with time-locked video acquisition that allows for analysis of clinical and electrographic features during a captured event. Many other types of evidence have been used, including the presence or absence of self-injury and incontinence, the ability to induce seizures by suggestion, psychologic tests, and ambulatory EEG. While useful in some cases, these alternatives have been found to be insufficient for the diagnosis of PNES. Elevated postictal prolactin levels (at least two times the upper limit of normal) have been used to differentiate generalized and complex partial seizures from PNES, but are not reliable (SOR B). While prolactin levels are often elevated after an epileptic seizure, they do not always rise, and the timing of measurement is crucial, making this a less sensitive test than was previously believed. Other serum markers have also been used to help distinguish PNES from epileptic seizures, including creatine phosphokinase, cortisol, WBC counts, lactate dehydrogenase, pCO2, and neuron-specific enolase. These also are not reliable, as threshold levels for abnormality, sensitivity, and specificity have not been determined. MRI is not reliable because abnormal brain MRIs have been documented in as many as one-third of patients with PNES. In addition, patients with epileptic seizures often have normal brain MRIs.
<ul> <li>10-189. +Neu+Adm. Which one of the following should be given intravenously in the initial treatment of status epilepticus?</li> <li>A) Propofol (Diprivan)</li> <li>B) Phenobarbital</li> <li>C) Lorazepam (Ativan)</li> <li>D) Midazolam (Versed)</li> </ul>	Seizures. <b>10-189.</b> Status epilepticus refers to continuous seizures or repetitive, discrete seizures with impaired consciousness in the interictal period. <b>ANS=C.</b> It is an emergency and must be treated immediately, since cardiopulmonary dysfunction, hyperthermia, and metabolic derangement can develop, leading to irreversible neuronal damage. Lorazepam, 0.1–0.15 mg/kg intravenously, should be given as anticonvulsant therapy after cardiopulmonary resuscitation. This is followed by phenytoin, given via a dedicated peripheral intravenous line. Fosphenytoin, midazolam, or phenobarbital can be used if there is no response to lorazepam. Propofol has been used for refractory status epilepticus to induce general anesthesia when the initial drugs have failed, but reports of fatal propofol infusion syndrome have led to a decline in its use.
<b>09-010.</b> +Non+Adm. Which one of the following serum proteins is typically DECREASED in a hospitalized patient with sepsis? A) Complement C3 B) Ferritin C) C-reactive protein (CRP) D) Albumin E) Fibrinogen	Sepsis. <b>09-010.</b> Acute phase response, refers to the multiple physiologic changes that occur with tissue injury. The synthesis of acute-phase proteins by hepatocytes is altered, leading to <u>decreased</u> serum <u>levels of</u> several of these proteins, including <u>albumin and transferrin</u> . Serum levels <u>rise for other</u> proteins, such as ceruloplasmin, complement proteins, haptoglobin, <u>fibrinogen, and C-reactive protein.</u> Serum levels of ferritin may be extremely high in certain conditions, but are also influenced by total-body iron stores.
<b>09-128.</b> +Nep+Cel. A 72-year-old female is admitted to the hospital after having surgery for a hip fracture. Her previous medical history is significant for hypertension and type 2 diabetes mellitus. Two days after admission the orthopedic surgeon consults with you because the patient has had several hours of fever to 39°C (102°F); tachycardia, with a pulse rate of 120 beats/min; and systolic blood pressures of 91–97 mm Hg (baseline 120–140 mm Hg with medication). When you examine the patient she says she feels weak and chilled but she is alert. Her oxygen saturation is excellent on room air, and a physical examination is normal except for the sinus tachycardia and low blood pressure. A urinary catheter is in place, but there has been little output over the last 4 hours. Her renal function was normal prior to her hospitalization. A chest radiograph is normal. Her electrolyte levels are normal, but laboratory tests reveal the following abnormal results: WBCs 2500/mm3 (N 5000–10,000), BUN 50 mg/dL (N 10–15), Creatinine 2.3 mg/dL (N 0.6–1.0), Bicarbonate 18 mmol/L (N 22–30), Urinalysis: Specific gravity >1.030 (N 1.003–1.040), WBCs >100/hpf, RBCs 10–20/hpf, Epithelial cells 3–5/hpf, Casts few hyaline. In addition to antibiotics, which one of the following would be the most appropriate management of this patient's problem? A) High-rate intravenous normal saline B) Intravenous furosemide, 40 mg every 6 hours C) Intravenous dopamine, 2–4 :g/kg/min D) Intravenous sodium bicarbonate	Sepsis. <b>09-128. ANS=A.</b> This patient appears to be experiencing sepsis syndrome due to urinary infection. The renal failure that has resulted is almost certainly due to low perfusion of the kidneys (prerenal azotemia). This condition requires aggressive intravenous fluids to halt and reverse the reduction in nephrologic function. At times, this underperfusion can result in acute tubular necrosis (an intrinsic renal dysfunction) that may prevent excretion of any excess fluid, so the patient's fluid status should be monitored carefully. Metabolic acidosis will likely reverse with appropriate hydration, and sodium bicarbonate should be reserved for severe acidosis (<10–15 mmol/L) or for those with chronic kidney disease. Low-dose dopamine has been proven to be ineffective in acute renal failure, and this patient does not have an indication for dialysis. Intravenous furosemide is contraindicated.
<b>10-087.</b> +Mus+Cca.>L* An 8-year-old female is brought to your office because she has begun to limp. She has had a fever of 38.8°C (101.8°F) and says that it hurts to bear weight on her right leg. She has no history of trauma. On examination, she walks with an antalgic gait and hesitates to bear weight on the leg. Range of motion of the right hip is limited in all directions and is painful. Her sacroiliac joint is not tender, and the psoas sign is negative. Laboratory testing reveals an erythrocyte sedimentation rate of 55 mm/hr (N 0–10), a WBC count of 15,500/mm (N 4500–13,500), and a C-reactive 3 protein level of 2.5 mg/dL (N Copyrighted Material. ITE Personal Notes. Not for Sale.	Septic arthritis. <b>10-087. ANS=D.</b> This child meets the criteria for possible septic arthritis. In this case ultrasonography is recommended over other imaging procedures. It is highly sensitive for detecting effusion of the hip joint. If an effusion is present, urgent ultrasound-guided aspiration should be performed. Bone scintigraphy is excellent for evaluating a limping child when the history, physical examination, and radiographic and sonographic findings fail to localize the pathology. CT is indicated when cortical bone must be visualized. MRI provides excellent visualization of joints, soft tissues, cartilage, and medullary Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
0.5–1.0). Which one of the following will provide the most useful diagnostic	bone. It is especially useful for confirming osteomyelitis, delineating the extent of
information to further evaluate this patient's problem?	malignancies, identifying stress fractures, and diagnosing early Legg-Calvé-
A) MRI	Perthes disease. Plain film radiography is often obtained as an initial imaging
B) CT	modality in any child with a limp. However, films may be normal in patients with
C) A bone scan	septic arthritis, providing a false-negative result.
D) Ultrasonography	
E) Plain-film radiography	
07-047. +Car+Euc. A 73-year-old Hispanic male presents to the emergency	Septic shock. 07-047. ANS=B. This clinical scenario should lead one to think of
department with a 3-day history of abdominal and right flank pain. He is lethargic	septic shock. Recent comprehensive investigations and reviews have
and pale, and his skin is clammy. His blood pressure is 86/30 mm Hg, pulse 106	demonstrated that the use of recombinant activated protein C in patients with
beats/min, and temperature 38.6E C (101.5E F). His chest is clear and no	severe sepsis and a high risk for death does improve survival. Low-dose dopamine
murmurs are heard. He responds to painful stimuli. The abdomen is soft with no	should not be used for maintenance or improvement of renal function.
guarding or rebound. Immediate fluid resuscitation is begun and after an hour he	Antithrombin administration is not recommended for the treatment of severe
has received 2 L of normal saline. In that hour he has had a urine output of only	sepsis and septic shock. As a specific treatment for anemia associated with severe
30 cc. A chest film and an EKG are normal. Laboratory Findings	sepsis, erythropoietin has not been shown to be of benefit. There is no evidence to
WBCs	support the use of bicarbonate in the treatment of hypoperfusion-induced acidemia
Platelets	associated with sepsis.
Base deficit	A
Serum pH 7.21 (N 7.35–7.45)	
Urinalysis packed WBCs, 3+ bacteria	
Which one of the following is most likely to enhance survival in this patient?	
A) Low-dose dopamine	
B) Recombinant human activated protein C (Xigris)	
C) Antithrombin	
D) Bicarbonate	
E) Erythropoietin	
<b>10-061.</b> +Psy+Mhe.>L* A patient who takes fluoxetine (Prozac), 40 mg twice	Serotonin syndrome. <b>10-061.</b> SSRI and Dextromethorphan interaction.
daily, develops shivering, tremors, and diarrhea after taking an over-the-counter	Dextromethorphan is commonly found in cough and cold remedies, and is
cough and cold medication. On examination he has dilated pupils and a heart rate	associated with serotonin syndrome. ANS=A. SSRIs such as fluoxetine are also
of 110 beats/min. His temperature is normal. Which one of the following	associated with serotonin syndrome, and there are many other medications that
medications in combination with fluoxetine could contribute to this patient's	increase the risk for serotonin syndrome when combined with SSRIs. The other
·	•
symptoms?	medications listed here are not associated with serotonin syndrome, however.
A) Dextromethorphan B) Boundoorbedging	
B) Pseudoephedrine	
C) Phenylephrine D) Guaifenesin	
E) Diphenhydramine (Benadryl)	Complete for the second s
<b>07-209.</b> +Ref+Cfp. Which one of the following is most important in the	Sexual dysfunction. 07-209. Women. ANS=A. A detailed history is the main tool
assessment and diagnosis of sexual dysfunction in women?	for the assessment and diagnosis of sexual dysfunction, and is usually obtained
A) A detailed history	from both partners. A physical examination, including a pelvic examination, is
B) A physical examination	part of routine care, but it infrequently identifies a cause of sexual dysfunction.
C) An estradiol level	The possibility that laboratory testing will identify causes of sexual dysfunction is
D) A prolactin level	low.
E) A testosterone level	
<b>07-215.</b> +Sen+Cca. A 4-month-old male is brought to your office for evaluation of	Shaken infant syndrome. 07-215. ANS=D. Nonaccidental trauma, so-called
"bloodshot eyes" of 2 days' duration. He is otherwise well. He was born at 35	shaken infant syndrome, is by far the most likely diagnosis in this case. Retinal
weeks gestation, weighed 2550 g (5 lb 10 oz), and was discharged the day after	hemorrhages are usually diagnostic when there is any reason to suspect this
his birth. He has received well child care and immunizations at the local public	syndrome. Classic ocular findings include retinal or vitreous hemorrhages seen on
health clinic. Examination confirms bilateral subconjunctival hemorrhages.	funduscopic examination. Intraocular hemorrhages are reported in 65%-90% of
Except for moderate irritability, the remainder of the examination is	
unremarkable. There is no known family history of bleeding disorders. An urgent	cases. Other ocular manifestations include subconjunctival hemorrhages, eyelid
evaluation by an ophthalmologist is requested, and it reveals bilateral retinal	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other
hemorrhaging. Which one of the following is the most likely diagnosis?	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is
	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of
A) Acute thrombocytopenia, cause to be determined	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz)
<ul><li>A) Acute thrombocytopenia, cause to be determined</li><li>B) Hemophilia, type to be determined</li></ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in
<ul><li>A) Acute thrombocytopenia, cause to be determined</li><li>B) Hemophilia, type to be determined</li><li>C) Retinopathy of prematurity</li></ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal
<ul><li>A) Acute thrombocytopenia, cause to be determined</li><li>B) Hemophilia, type to be determined</li><li>C) Retinopathy of prematurity</li><li>D) Nonaccidental trauma</li></ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with
<ul><li>A) Acute thrombocytopenia, cause to be determined</li><li>B) Hemophilia, type to be determined</li><li>C) Retinopathy of prematurity</li></ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age $\Box$ 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure.
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure.
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age □28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure.
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age □28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. 08-001. Acute. ANS=B. This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different,
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time?	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time? A) Pulmonary function testing	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give unreliable results because of bacterial contamination from the resident flora of the
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time? A) Pulmonary function testing B) Coronal CT of the sinuses C) Culture and sensitivity testing of the discharge	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age 28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give unreliable results because of bacterial contamination from the resident flora of the nose. The other options listed do not contribute to the diagnosis and treatment of
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> </ul> <b>08-001.</b> +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time? <ul> <li>A) Pulmonary function testing</li> <li>B) Coronal CT of the sinuses</li> <li>C) Culture and sensitivity testing of the discharge</li> <li>D) Erythrocyte sedimentation rate</li> </ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age □28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give unreliable results because of bacterial contamination from the resident flora of the nose. The other options listed do not contribute to the diagnosis and treatment of sinusitis.
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> <li>08-001. +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time?</li> <li>A) Pulmonary function testing</li> <li>B) Coronal CT of the sinuses</li> <li>C) Culture and sensitivity testing of the discharge</li> <li>D) Erythrocyte sedimentation rate</li> <li>08-042. +Res+Adm. A 27-year-old male presents with what he thinks is a sinus</li> </ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age □28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give unreliable results because of bacterial contamination from the resident flora of the nose. The other options listed do not contribute to the diagnosis and treatment of sinusitis. Sinusitis. <b>08-042. Acute. ANS=D.</b> Although oral antibiotics are overwhelmingly
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> <li>08-001. +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time?</li> <li>A) Pulmonary function testing</li> <li>B) Coronal CT of the sinuses</li> <li>C) Culture and sensitivity testing of the discharge</li> <li>D) Erythrocyte sedimentation rate</li> <li>08-042. +Res+Adm. A 27-year-old male presents with what he thinks is a sinus infection. He has a 2-day history of right maxillary pain associated with nasal</li> </ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age □28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. 08-001. Acute. ANS=B. This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give unreliable results because of bacterial contamination from the resident flora of the nose. The other options listed do not contribute to the diagnosis and treatment of sinusitis. Sinusitis. 08-042. Acute. ANS=D. Although oral antibiotics are overwhelmingly prescribed as initial treatment in acute sinusitis, it has been shown that the
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> <li>08-001. +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time?</li> <li>A) Pulmonary function testing</li> <li>B) Coronal CT of the sinuses</li> <li>C) Culture and sensitivity testing of the discharge</li> <li>D) Erythrocyte sedimentation rate</li> <li>08-042. +Res+Adm. A 27-year-old male presents with what he thinks is a sinus infection. He has a 2-day history of right maxillary pain associated with nasal congestion and clear rhinorrhea. The only significant findings on examination are</li> </ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age □28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. 08-001. Acute. ANS=B. This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give unreliable results because of bacterial contamination from the resident flora of the nose. The other options listed do not contribute to the diagnosis and treatment of sinusitis. Sinusitis. 08-042. Acute. ANS=D. Although oral antibiotics are overwhelmingly prescribed as initial treatment in acute sinusitis, it has been shown that the majority of acute illnesses are viral in origin and that 98% of cases will resolve
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> <li>08-001. +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time?</li> <li>A) Pulmonary function testing</li> <li>B) Coronal CT of the sinuses</li> <li>C) Culture and sensitivity testing of the discharge</li> <li>D) Erythrocyte sedimentation rate</li> <li>08-042. +Res+Adm. A 27-year-old male presents with what he thinks is a sinus infection. He has a 2-day history of right maxillary pain associated with nasal congestion and clear rhinorrhea. The only significant findings on examination are a low-grade fever and subjective tenderness with palpation over the right</li> </ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age □28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. <b>08-001. Acute. ANS=B.</b> This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give unreliable results because of bacterial contamination from the resident flora of the nose. The other options listed do not contribute to the diagnosis and treatment of sinusitis.
<ul> <li>A) Acute thrombocytopenia, cause to be determined</li> <li>B) Hemophilia, type to be determined</li> <li>C) Retinopathy of prematurity</li> <li>D) Nonaccidental trauma</li> <li>E) Childhood glaucoma</li> <li>08-001. +Res+Adm. A 30-year-old white male complains of several weeks of nasal stuffiness, purulent nasal discharge, and facial pain. He does not respond to a 3-day course of trimethoprim/ sulfamethoxazole (Bactrim, Septra). Follow-up treatment with 2 weeks of amoxicillin/ clavulanate (Augmentin) is similarly ineffective. Of the following diagnostic options, which one is most appropriate at this time?</li> <li>A) Pulmonary function testing</li> <li>B) Coronal CT of the sinuses</li> <li>C) Culture and sensitivity testing of the discharge</li> <li>D) Erythrocyte sedimentation rate</li> <li>08-042. +Res+Adm. A 27-year-old male presents with what he thinks is a sinus infection. He has a 2-day history of right maxillary pain associated with nasal congestion and clear rhinorrhea. The only significant findings on examination are</li> </ul>	ecchymosis, and retinal detachment. Acute thrombocytopenia would have other symptoms and signs, such as easy bruisability and petechiae. Hemophilia is familial and presents with bleeding in the joints or postoperatively. Retinopathy of prematurity usually is found in children with a birth weight <1500 g (3 lb 5 oz) and/or a gestational age □28 weeks. Normal retinal angiogenesis has ceased in these patients, and hyperproliferative neovascularization can lead to retinal detachment and blindness. Childhood glaucoma does not present with hemorrhagic symptoms, but with buphthalmos, or "ox eye," due to enlargement of the cornea with increased intraocular pressure. Sinusitis. 08-001. Acute. ANS=B. This patient has a clinical presentation consistent with acute sinusitis. Failure to respond to adequate antibiotic therapy suggests either a complication, progression to chronic sinusitis, or a different, confounding diagnosis. The diagnostic procedure of choice in this situation is coronal CT of the sinuses, due to its increased sensitivity and competitive cost when compared with standard radiographs. Cultures of the nasal discharge give unreliable results because of bacterial contamination from the resident flora of the nose. The other options listed do not contribute to the diagnosis and treatment of sinusitis. Sinusitis. 08-042. Acute. ANS=D. Although oral antibiotics are overwhelmingly prescribed as initial treatment in acute sinusitis, it has been shown that the majority of acute illnesses are viral in origin and that 98% of cases will resolve

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
A) Antihistamines	severe (two or more localizing symptoms or signs of serious bacterial
B) Oral decongestants	complications). There is little evidence of effectiveness for antihistamines, oral
C) Topical vasoconstrictor sprays	decongestants, or vasoconstrictor sprays. There is also little evidence of
D) Oral analgesics	effectiveness for nasal lavage in acute sinusitis, although it has an emerging
E) Nasal lavage	role in chronic sinusitis.
07-191. +Int+Csp. A 56-year-old male had a 1-cm basal cell carcinoma resected	Skin condition in adults. 07-191. Basal cell carcinomas. ANS=E. Surgical
from his temple area. The pathology report shows that cancer is present in one of	reexcision is the preferred method of treatment for residual basal cell
the margins of the specimen. Which one of the following would be the most	carcinomas, especially around the face. Imiquimod is not recommended for
appropriate next step?	treating lesions on the head or face. Cryotherapy and curettage with
A) Observation of the area and reexcision if a suspicious lesion recurs	electrodesiccation are recommended as primary treatments, but would not be
B) Topical imiquimod (Aldara)	appropriate in this case because lesions on the central part of the face are at risk
C) Cryosurgery of the affected area	for extensive subclinical spread.
D) Curettage and electrodesiccation of the affected area	
E) Surgical reexcision	
<b>08-212.</b> +Int+Adm. A 65-year-old white male comes to your office with a 0.5-cm	Skin condition in adults. 08-212. Keratoacanthoma grows rapidly and may heal
nodule that has developed on his right forearm over the past 4 weeks. The lesion	within 6 months to a year. ANS=E. Squamous cell carcinoma may appear grossly
is dome shaped and has a central plug. You schedule a biopsy but he does not	and histologically similar to keratoacanthoma but does not heal spontaneously.
return to your office for 1 year. At that time the lesion appears to have healed	The other lesions do not resemble keratoacanthoma.
spontaneously. The most likely diagnosis is	
A) benign lentigo	
B) lentigo maligna	
C) basal cell carcinoma	
D) squamous cell carcinoma	
E) keratoacanthoma	
<b>09-239.</b> +Int+Cel. A 90-year-old female nursing-home patient has a 1.5×2.0-cm	Skin condition in adults. 09-239. Melanoma, malignant. ANS=D. This patient has
lesion on her face (shown in <b>Figure</b> ). She states that the "spot" has been present	a malignant melanoma, often called lentigo maligna melanoma. These lesions
for years and that it doesn't bother her. Closer examination reveals a flat	typically appear during the seventh or eighth decade of life, and are most often
maculopapular lesion with varying colors and an irregular border. Which one of	located on the face. This patient's age, health status, and wishes must be
the following is the most likely diagnosis? A) Actinic keratosis B) Metastatic	considered in any treatment plans. The other skin lesions listed can be seen in this
breast carcinoma C) Seborrheic keratosis D) Lentigo maligna melanoma E) Basal	age group, but they are easily distinguished from this malignant lesion.
cell carcinoma	
and the second se	
and the second	
<b>10-103.</b> +Ref+Cfp.>L A 54-year-old female presents with a 2-month history of	Skin condition in adults. <b>10-103.</b> Lichen sclerosus is a chronic, progressive,
intense vulvar itching that has not improved with topical antifungal treatment. On	inflammatory skin condition found in the anogenital region. ANS=B. It is
examination you note areas of white, thickened, excoriated skin. Concerned about	characterized by intense vulvar itching. The treatment of choice is high-potency
malignancy you perform punch biopsies, which reveal lichen	topical corticosteroids. Testosterone has been found to be no more effective than
sclerosus. The treatment of choice for this condition is topical application of	petrolatum. Fluorouracil is an antineoplastic agent most frequently used to treat
A) conjugated estrogens	actinic skin changes or superficial basal cell carcinomas.
B) fluorinated corticosteroids	
C) petrolatum	
D) 2% testosterone	
E) fluorouracil (Efudex)	
10-179. +Int+Adm. Actinic keratoses of the skin may progress to	Skin conditions in adults. <b>10-179.</b> Actinic keratoses are scaly lesions that develop
A) nodular basal cell cancer	on sun-exposed skin, and are believed to be carcinoma in situ. ANS=C. While
B) pigmented basal cell cancer	most actinic keratoses spontaneously regress, others progress to squamous cell
C) squamous cell cancer	cancers.
D) Merkel cell cancer	
E) malignant melanoma	
<b>08-003.</b> +Int+Cca. A newborn male has a skin eruption on his forehead, nose, and	Skin conditions in children. 08-003. Acne neonatorum occurs in up to 20% of
cheeks. The lesions are mostly closed comedones with a few open comedones,	newborns. ANS=E. It typically consists of closed comedones on the forehead,
papules, and pustules. No significant erythema is seen. Which one of the	nose, and cheeks, and is thought to result from stimulation of sebaceous glands by
following is the most likely diagnosis?	maternal and infant androgens. Parents should be counseled that lesions usually
A) Erythema toxicum neonatorum	resolve spontaneously within 4 months without scarring. Findings in erythema
B) Localized superficial Candida infection	toxicum neonatorum include papules, pustules, and erythema. Candida and herpes
C) Herpes simplex	lesions usually present with vesiculopustular lesions in the neonatal period. Milia
D) Milia	consists of 1- to 2-mm pearly keratin plugs without erythema, and may occur on
E) Acne neonatorum	the trunk and limbs.
	Uptodate: Acne neonatorum-Once thought to be caused by stimulation of
	sebaceous glands by maternal and endogenous androgens, many authors doubt
Uptodate:	that it is true acne and now call it neonatal cephalic pustulosis [8]. An
	inflammatory reaction to skin colonization with Malassezia species has been
	proposed, especially in severe cases. In the majority of cases, neonatal cephalic
	pustulosis is mild and can be treated with daily cleansing with soap and water and
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 143 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Document copy for the sole personal use of Dr. Mario Alberto Jimenez



The early, untreated skin lesions associated with neonatal HSV infection are characteristically clear vesicles on an erythematous base, often touching or "kissing" or coalesced in groups of vesicles. Culture of the clear fluid aspirated or swabbed from the vesicles will readily grow HSV in 24 to 48 hours, and slides made from cells scraped from the base of the lesion will show HSV viral antigens by direct immunofluorescence assay (DFA).



Scalp lesions in neonate with skin, eye, and mouth (SEM) neonatal herpes simplex virus infection (HSV). Gram-stained smear and bacterial cultures were negative, and the lesions did not respond to topical and systemic antibiotics. Viral cultures grew HSV type 2, and the lesions responded to intravenous acyclovir.

— Milia are white papules caused by retention of keratin and sebaceous material in the pilaceous follicles. They are frequently found on the nose and cheeks, and resolve in the first few weeks of life.



**10-005.** +Int+Cca. >L\* During rounds, you notice a new rash on a full-term 2day-old white female. It consists of 1-mm pustules surrounded by a flat area of erythema, and is located on the face, trunk, and upper arms. An examination is otherwise normal, and she does not appear ill. Which one of the following is the most likely diagnosis?

- A) Erythema toxicum neonatorum
- B) Transient neonatal pustular melanosis
- C) Acne neonatorum
- D) Systemic herpes simplex
- E) Staphylococcus aureus sepsis

avoidance of exogenous oils and lotions [12]. No additional treatment is needed since neonatal cephalic pustulosis usually resolves spontaneously within four months without scarring [12]. Application of 2 percent ketoconazole cream twice daily [13] or 1 percent hydrocortisone cream once daily may expedite clearance of lesions. Affected newborns do not appear to have a greater risk of acne in adolescence.



Erythematous pustular rash on cheeks of a 3-week-old neonate. Uptodate: Erythema toxicum neonatorum (ETN) occurs in 31 to 72 percent of full-term infants but declines in incidence with decreasing birth weight and gestational age [1]. The etiology is not known, but immaturity of the pilosebaceous follicles (the combined sebaceous gland and hair follicle) may contribute [2]. ETN is characterized by multiple erythematous macules and papules (1 to 3 mm in diameter) that rapidly progress to pustules on an erythematous base (picture 1) [3]. The lesions are distributed over the trunk and proximal extremities, sparing the palms and soles. They may be present at birth, but typically appear within 24 to 48 hours. The rash usually resolves in five to seven days, although it may wax and wane before complete resolution [1]. The diagnosis of ETN is usually made upon the basis of clinical appearance. It can be confirmed by microscopic examination of a Wright-stained smear of the contents of a pustule that demonstrates numerous eosinophils and occasional neutrophils. However, this usually is not necessary. A minority of patients (7 to 18 percent) may also have peripheral eosinophilia. This healthy newborn developed a diffuse transient eruption comprised of red macules with central pinpoint whitish-yellow papules and pustules on the second day of life. Skin conditions in children. 10-005. Erythema toxicum neonatorum. ANS=A. This infant has the typical "flea-bitten" rash of erythema toxicum neonatorum (ETN). Transient neonatal pustular melanosis is most common in African-American newborns, and the lesions lack the surrounding erythema typical of ETN. Acne neonatorum is associated with closed comedones, mostly on the face. As the infant described is not ill, infectious etiologies are unlikely. Uptodate: Transient neonatal pustular melanosis (TNPM) is less common than ETN. It mostly affects full-term black infants, although it is described in all races [5]. TNPM consists of three types of lesions [6]: 1. Small pustules on a nonerythematous base; these usually are present at birth 2. Erythematous macules with a surrounding collarette of scale; these develop as the pustules rupture and may persist for weeks to months 3. Hyperpigmented macules that gradually fade over several weeks to months (picture 2) Lesions in different stages may be present at the same time, even at birth [6]. The diagnosis of TNPM is usually based upon the clinical appearance. Microscopic examination of a Wright-stained smear of the contents of a pustule demonstrates numerous neutrophils and rare eosinophils (in contrast to ETN). However, this is usually not necessary. Culture, if performed, yields no organism. No treatment is

necessary.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>07-043. +Int+Cca. A 3-year-old male is brought to your office because of a slowly spreading rash on his face of several days' duration. The mother states that he is otherwise healthy. Examination shows a 2-cm area of yellow crust on his right cheek. There is no surrounding erythema. Examination of the nose and throat reveals normal findings. Which one of the following would be the most appropriate treatment?</li> <li>A) Amoxicillin</li> <li>B) Cephalexin (Keflex)</li> <li>C) Mupirocin cream (Bactroban)</li> <li>D) Watchful waiting</li> <li>E) Warm, wet packs</li> </ul>	Skin conditions, Impetigo. <b>07-043.</b> Impetigo is caused by group A B-hemolytic <i>Streptococcus</i> and/or <i>Staphylococcus aureus</i> , and is one of the most common skin infections in children. <b>ANS=C.</b> Even though it is thought to be self limiting, treatment is recommended because of its contagiousness. Amoxicillin would not cover <i>Staphylococcus</i> , and sometimes it is difficult to get young children to take oral antibiotics. In addition, they increase the risk of antibiotic-associated diarrhea or allergic reactions. Mupirocin cream has been found to be just as effective as oral antibiotics in cases of limited infections.
<ul> <li>08-124. +Int+Adm. A 5-year-old female presents with a lesion on her forearm. It began as a red macule, turned into a small vesicle that easily ruptured, then dried into a 1-cm honey-colored, crusted lesion seen now. Which one of the following would be the most appropriate therapy?</li> <li>A) Oral penicillin V</li> <li>B) Oral erythromycin</li> <li>C) Topical disinfectant (e.g., hydrogen peroxide)</li> <li>D) Topical bacitracin</li> <li>E) Topical mupirocin (Bactroban)</li> </ul>	Skin conditions, Impetigo. <b>08-124.</b> Topical mupirocin is as effective as cephalexin or amoxicillin /clavulanate in the treatment of impetigo. <b>ANS=E.</b> Oral penicillin V, oral erythromycin, and topical bacitracin are less effective than mupirocin. Topical disinfectants such as hydrogen peroxide are no more effective than placebo.
<b>09-078.</b> +Int+Cca. A 4-year-old male presents with a 3-day history of sores on his right leg. The sores began as small red papules but have progressed in size and now are crusting and weeping. Otherwise he is in good health and is up to date with immunizations. On examination he has three lesions on the right anterior lower leg that are 0.5–1.5 cm in diameter, with red bases and honey-colored crusts. There is no regional lymphangitis or lymphadenitis. Which one of the following is the preferred first-line therapy? A) Oral erythromycin (Erythrocin) B) Oral penicillin V C) Topical hexachlorophene (pHisoHex) D) Topical mupirocin (Bactroban)	Skin conditions, Impetigo. <b>09-078.</b> Impetigo, Nonbullous. <b>ANS=D.</b> The lesions described are nonbullous impetigo, due to either <i>Staphylococcus aureus</i> or <i>Streptococcus pyogenes</i> . Topical antibiotics, such as mupirocin, but not compounds containing neomycin, are the preferred first-line therapy for impetigo involving a limited area. Oral antibiotics are widely used, based on expert opinion and traditional practice, but are usually reserved for patients with more extensive impetigo or with systemic symptoms or signs. Penicillin V and hexachlorophene have both been shown to be no more effective than placebo. Topical antibiotics have been shown to be as effective as erythromycin, which has a common adverse effect of nausea.
<ul> <li>10-226. +Int+Cca.&gt;L* A 6-month-old white male is brought to your office because he has "blisters" in his diaper area. On examination, you find large bullae filled with cloudy yellow fluid. Some of the blisters have ruptured and the bases are covered with a thin crust. Which one of the following is most appropriate in the management of this condition?</li> <li>A) Rinsing diapers with a vinegar solution</li> <li>B) A topical antifungal agent</li> <li>C) Penicillin</li> <li>D) Trimethoprim/sulfamethoxazole (Bactrim, Septra)</li> </ul>	Skin conditions, Impetigo. <b>10-226.</b> Impetigo, Bullous. <b>ANS=D.</b> Bullous impetigo is a localized skin infection characterized by large bullae; it is caused by phage group II <i>Staphylococcus aureus</i> . Cultures of fluid from an intact blister will reveal the causative agent. The lesions are caused by exfolatin, a local toxin produced by the <i>S. aureus</i> , and develop on intact skin. Complications are rare, but cellulitis occurs in <10% of cases. Strains of <i>Staphylococcus</i> associated with impetigo in the U.S. have little or no nephritogenic potential. Systemic therapy should be used in patients with widespread lesions. With the emergence of MRSA, trimethoprim sulfamethoxazole and clindamycin are options for outpatient therapy. Intravenous vancomycin can be used to treat hospitalized patients with more severe infections.
<b>07-101.</b> +Int+Adm. A 19-year-old female comes to your office with a skin rash that is mildly pruritic. The rash began on her back with a single 3-cm salmon- colored oval lesion. This lesion developed a scaly border and began to clear centrally. A week later, similar smaller lesions developed on her back, trunk, and proximal extremities. The long axis of these oval lesions followed the cleavage lines of the skin. The patient treated these lesions with over-the-counter hydrocortisone and diphenhydramine (Benadryl), but they did not resolve. Which one of the following would be the most appropriate management at this time? A) Famciclovir (Famvir) B) Prednisone C) Cetirizine (Zyrtec) D) Terbinafine (Lamisil) E) Reassurance	Skin conditions. <b>07-101.</b> Pityriasis rosea is a self-limited, acute exanthematous skin disorder that is thought to be viral. <b>ANS=E</b> . It begins with a herald patch that is 3–5 cm in size and usually precedes the rash on the trunk and back by a week. This is followed by central clearing of the lesion, with development of a scaly border. Smaller, similar lesions usually develop in the cleavage lines of the skin. The salmon or pink patches may be mistaken for tinea corporis, especially when the herald patch is present. Other illnesses to consider include psoriasis, Lyme disease, secondary syphilis, drug eruptions, and HIV seroconversion illness. No laboratory markers are present, and a skin biopsy is rarely needed. Most patients require only reassurance, although some may need topical corticosteroids to control itching. For more severe cases, phototherapy can be considered. For <b>unusually severe cases</b> , erythromycin for 2 weeks may be helpful. There is one placebo-controlled study of 90 patients that showed complete rash clearance in 73% of patients who received 2 weeks of erythromycin therapy, compared with no clearance of the rash in patients who received placebo (evidence level B, single controlled trial). It is thought that the benefit is from anti-inflammatory and immune-modulating effects rather than antibacterial effects. The rash may persist for 2–3 months. <b>Epocrates:</b> An inflammatory skin disease with unclear etiology, although an infectious cause has been suggested. Can present in patients of any age but most
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 145 of 170	

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	often in people aged 10 to 35 years. Manifests as an acute, self-limited, inflammatory eruption characterized by a single larger lesion, the herald patch, followed by eruption of smaller papulosquamous oval lesions. Spontaneous resolution, usually over several weeks, but can persist for up to 5 months. Symptoms treated by topical corticosteroids and/or oral antihistamines, or UV therapy.
07-210. +Int+Com. Which one of the following is associated with a group A B-	Skin conditions. 07-210. Psoriasis, guttate. ANS=A. In guttate psoriasis there is
streptococcal infection? A) Guttate psoriasis B) Lichen planus C) Pityriasis rosea D) Bullous impetigo E) Roseola	an acute onset of small, widely scattered, uniform lesions, often following a streptococcal infection. Bullous impetigo is caused by a dermatologic toxin produced at the site of an infection with <i>Staphylococcus aureus</i> . Exanthem subitum (roseola, sixth disease) is caused by human herpesvirus 6. Lichen planus is a papulosquamous disorder with an unknown etiology, but cutaneous eruptions clinically resembling lichen planus have been observed after administration of numerous drugs, including diuretics, gold, antimalarials, penicillamine, and phenothiazines, and in patients with skin lesions of chronic graft-versus-host-disease. Additionally, lichen planus associated with abnormal liver function has been correlated with viral hepatitis, particularly hepatitis C infection. Pityriasis rosea is a papulosquamous eruption of unknown etiology that occurs more commonly in the spring and fall. Its first manifestation is the development of a 2-to 6-cm annular lesion (the herald patch). There is some evidence that it has a viral origin.
	often covers a much larger area of skin than plaque psoriasis as if the skin has been sprayed with droplets of paint. The treatment of guttate psoriasis is the same as plaque
<b>09-179.</b> +Int+Adm. A 25-year-old female has an annular rash on the dorsal	psoriasis. http://www.skinmagazine.co.uk/guttate_psoriasis_76 Skin Conditions. <b>09-179.</b> Granuloma annulare is a self-limited condition. <b>ANS=A.</b>
surface of both hands. The rash does not respond to initial treatment with an antifungal medication, and a biopsy reveals granuloma annulare. Which one of the following would be the most appropriate advice for this patient? A) Allow the rash to resolve without further treatment B) Cover the rash because it is contagious C) Treat the rash with systemic corticosteroids D) Treat the rash with a stronger antifungal medication	Skin Conditions. <b>09-179</b> . Granultana annulate is a self-infinite condition. ANS=A. It is not contagious, and therefore would not need to be covered to prevent transmission. Treatments may include injected or topical corticosteroids, but oral corticosteroids have not been specifically recommended. It may be necessary to refer the patient to a dermatologist because many of the potential treatments can have serious side effects.
<ul> <li>10-023. +Int+Adm. &gt;L?* A 45-year-old female presents with a rash on the central portion of her face. She states that she has intermittent flushing and intense erythema that feels as if her face is stinging. She has noticed that her symptoms can be worsened by sun exposure, emotional stress, alcohol, or eating spicy foods. She has been in good health and has taken conjugated estrogens (Premarin), 0.625 mg daily, since a hysterectomy for benign reasons. A general examination is normal except for erythema of the cheeks and chin. No pustules or comedone formation is noted around her eyes, but telangiectasias are present. Which one of the following would be appropriate in the management of this problem?</li> <li>A) Increasing her estrogen dosage</li> <li>B) Referral to a rheumatologist</li> <li>C) Low-potency non-fluorinated topical corticosteroids</li> <li>D) Oral prednisone</li> <li>E) Metronidazole gel (MetroGel)</li> </ul>	Skin Conditions. <b>10-023.</b> Rosacea is a relatively common condition seen most often in women between the ages of 30 and 60. <b>ANS=E.</b> Central facial erythema and telangiectasias are prominent early features that may progress to a chronic infiltrate with papules and sometimes sterile pustules. Facial edema also may occur. Some patients develop rhinophyma due to hypertrophy of the subcutaneous glands of the nose. The usual presenting symptoms are central facial erythema and flushing that many patients find socially embarrassing. Flushing can be triggered by food, environmental, chemical, or emotional triggers. <b>Ocular problems occur</b> <b>in half of patients with rosacea, often in the form of an intermittent</b> <b>inflammatory conjunctivitis with or without blepharitis.</b> Management includes avoidance of precipitating factors and use of sunscreen. Oral metronidazole, doxycycline, or tetracycline also can be used, especially if there are ocular symptoms. These are often ineffective for the flushing, so low-dose clonidine or a nonselectiveblocker may be added. Topical treatments such as metronidazole and benzoyl peroxide may also be effective, particularly for mild cases. Other

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	illnesses to consider include acne, photodermatitis, systemic lupus erythematosus,
<ul> <li>10-096. +Int+Adm. A 27-year-old white male construction worker suffers from severe plaque-type psoriasis that has required systemic therapy. Which one of the following is associated with this condition?</li> <li>A) A reduced overall risk of cardiovascular mortality</li> <li>B) A decreased risk of skin cancer with successful treatment</li> <li>C) A low likelihood of recurrence with successful treatment</li> <li>D) An increased risk for the condition in the children of affected individuals</li> <li>E) Low body mass index and difficulty maintaining weight</li> </ul>	seborrheic dermatitis, carcinoid syndrome, and mastocytosis. Skin conditions. <b>10-096.</b> Psoriasis is a genetic inflammatory condition that has been associated with a significant risk of cardiovascular morbidity and mortality. ANS=D. Children of patients with the disorder are at increased risk. This is especially true if both parents have the disorder. Life expectancy is somewhat reduced in patients with severe psoriasis, particularly if the disease had an early onset. Plaque psoriasis is usually a lifelong disease; this is in contrast to guttate psoriasis, which may be self-limited and never recur. Cigarette smoking may increase the risk of developing psoriasis. Psoriasis is also associated with an increased likelihood of obesity, diabetes mellitus, and metabolic syndrome.
<ul> <li>10-233. +Int+Cca.? An 8-year-old white male presents with a 4-day history of erythematous cheeks, giving him a "slapped-cheek" appearance. Examination of the extremities reveals a mildly pruritic, reticulated, erythematous, maculopapular rash (see Figure 1). He is afebrile and no other constitutional symptoms are present. The most likely etiologic agent is</li> <li>A) human parvovirus</li> <li>B) adenovirus</li> <li>C) cytomegalovirus</li> <li>D) coxsackievirus</li> </ul>	Skin conditions. <b>10-233.</b> Fifth disease, or erythema infectiosum. <b>ANS=A.</b> All of these viruses can cause an erythematous exanthem; however, this description is classic for fifth disease, or erythema infectiosum. It was the fifth exanthem to be identified after measles, scarlet fever, rubella, and Filatov-Dukes disease (atypical scarlet fever). Roseola infantum is known as sixth disease. Erythema infectiosum is caused by parvovirus B19. It presents with the typical viral prodrome, along with mild upper respiratory symptoms. The hallmark rash has three stages. The first is a facial flushing, described as a "slapped cheek" appearance. In the next stage, the exanthem can spread concurrently to the trunk and proximal extremities as a diffuse macular erythematous rash. Finally, central clearing of this rash creates a lacy, reticulated appearance, as seen in Figure 1. This rash tends to be on the extensor surfaces and spares the palms and soles. It resolves in 1–3 weeks but can recur with heat, stress, and exposure to sunlight.
<ul> <li>07-070. +Int+Adm. Most cases of chronic urticaria are</li> <li>A) caused by infection</li> <li>B) caused by an allergic reaction</li> <li>C) caused by an autoimmune response</li> <li>D) idiopathic</li> <li>E) associated with an anxiety disorder</li> </ul>	Skin rash. <b>07-070.</b> Urticaria; Chronic urticaria was once considered to be a manifestation of an anxiety disorder or an allergic or idiosyncratic reaction to foods, food additives, or food dyes. <b>ANS=D.</b> There is no good evidence to support these suppositions. The likelihood of there being infectious causes of chronic urticaria, such as <i>Helicobacter pylori</i> , is still being debated, but is unlikely. An autoimmune mechanism appears to be the likely cause in a subpopulation of patients, but 60% of cases appear to be idiopathic.
<ul> <li>07-160. +Int+Adm. A 25-year-old elementary school teacher presents with target or iris-like lesions on her palms and soles. You should suspect</li> <li>A) B-streptococcal infection</li> <li>B) erythema multiforme</li> <li>C) urticaria</li> <li>D) Lyme disease</li> <li>E) discoid lupus erythematosus</li> </ul>	Skin rash. <b>07-160.</b> Erythema multiforme. <b>ANS=B.</b> "Target" or "iris-like" lesions are found only in erythema multiforme. Although these lesions are unique, they signify many and varied etiologies that often require intervention. The other options listed exhibit skin manifestations with much different appearances. Epocrates:
<b>08-238.</b> +Int+Adm. A 24-year-old generally healthy female presents with a rash that developed quickly over her extremities and trunk earlier in the day (see <b>Figure</b> ). The lesions started as round erythematous macules, but over the course	therapy. Skin rash. <b>08-238.</b> Urticaria. <b>ANS=B.</b> The lesions shown are typical of wheals associated with urticaria. Acute urticaria has a variety of causes, but often is idiopathic. The lesions are sharply defined and can range from <1 cm to >8 cm.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 147 of 170 receive."	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
of a few hours have evolved. Some of the areas that were affected initially have already cleared. The affected skin is mildly pruritic, but she has no other symptoms or physical findings. Her mucous membranes are normal. Which one of the following would be the most appropriate first-line treatment for this patient's condition? A) An oral antibiotic B) An oral antihistamine C) Oral corticosteroids D) Topical corticosteroids E) A topical antifungal agent	The color is erythematous, or white with an erythematous rim, and lesions can be round, oval, acriform, annular (as with this patient), or serpiginous. The lesions are often transient, fluctuating from hour to hour, and sometimes are associated with angioedema (edematous areas of dermis and subcutaneous tissue). Appropriate treatment for mildly symptomatic cases begins with antihistamines. Oral or parenteral corticosteroids would be appropriate if angioedema were significant (i.e., swelling of the face, mouth, or larynx).
<ul> <li>09-194. +Int+Adm. A 25-year-old female presents with a maculopapular rash that has progressed to multiple areas and exhibits target lesions. A cold sore appeared on her upper lip 2 days before the rash appeared. She is not systemically ill and is on no medications. Which one of the following is true concerning this problem?</li> <li>A) Herpes simplex virus is a likely cause</li> <li>B) A skin biopsy will confirm the diagnosis</li> <li>C) The lesions usually disappear within 24 hours</li> <li>D) The palms of the hands and soles of the feet are not involved</li> <li>E) Scarring from the lesions is often seen after resolution</li> <li>09-234. +Int+Adm. A 3-year-old female is brought to your office with a 3-hour history of skin lesions that are prominent, warm, papular, and serpiginous (see Figure). Which one of the following is the most likely cause of these lesions? A) Heredity B) Physical abuse C) Infection D) A topical agent E) An oral medication</li> </ul>	Skin rash. <b>09-194.</b> Erythema multiforme. Herpes simplex virus is the most common etiologic agent of erythema multiforme. <b>ANS=A</b> . Other infections, particularly <i>Mycoplasma pneumoniae</i> infections and fungal infections, may also be associated with this hypersensitivity reaction. Other causes include medications and vaccines. Skin biopsy findings are not specific for erythema multiforme usually are present and fixed for at least 1 week and may evolve into target lesions. The palms of the hands and soles of the feet may be involved. The lesions of erythema multiforme usually resolve spontaneously over 3–5 weeks without sequelae. Skin rash. <b>09-234.</b> Urticaria (Acute) occurs when an allergen activates mast cells in the skin, and is commonly caused by oral and parenteral drugs, food, and, less frequently, infections. <b>ANS=E.</b> Topical agents and physical abuse are unlikely to present in this manner, and hereditary angioedema is more a systemic illness than a skin disorder.
<b>08-196.</b> +Neu+Cca. Which one of the following sleep problems in children is	Sleep problems. 08-196. Nightmares occur in the second half of the night, when
most likely to occur during the second half of the night? A) Confusional arousals B) Sleepwalking C) Sleep terrors D) Nightmares	rapid eye movement (REM) sleep is most prominent. <b>ANS=D.</b> Parasonnias are disorders of arousal from non-REM (NREM) sleep. These are more common in children than adults because children spend more time in deep NREM sleep. Such disorders usually occur within 1–2 hours after sleep onset, and coincide with the transition from the first period of slow-wave sleep. These disorders include sleepwalking, confusional arousal, and sleep terrors.
<b>08-216.</b> +Mus+Cca. An overweight 13-year-old male presents with a 3-week history of right lower thigh pain. He first noticed the pain when jumping while playing basketball, but now it is present even when he is just walking. On examination he can bear his full weight without an obvious limp. There is no localized tenderness, and the patella tracks normally without subluxation. Internal rotation of the hip is limited on the right side compared to the left. Based on the examination alone, which one of the following is the most likely diagnosis? A) Avascular necrosis of the femoral head (Legg-Calvé-Perthes disease) B) Osteosarcoma C) Meralgia paresthetica D) Pauciarticular juvenile rheumatoid arthritis E) Slipped capital femoral epiphysis	Slipped capital femoral epiphysis. <b>08-216.</b> (SCFE). <b>ANS=E.</b> This is a classic presentation for SCFE in an adolescent male who has probably had a recent growth spurt. <b>Pain with activity is the most common presenting symptom, as opposed to the nighttime pain that is typical of malignancy.</b> Obese males are affected more often. <b>The pain is typically in the anterior thigh, but in a high percentage of patients the pain may be referred to the knee, lower leg, or foot.</b> Limited internal rotation of the hip, especially with the hip in 90° flexion, is a reliable and specific finding for SCFE and should be looked for in all adolescents with hip, thigh, or knee pain. <b>Meralgia paresthetica is pain in the thigh related to entrapment of the lateral femoral cutaneous nerve, often attributed to excessively tight clothing. <u>Legg-Calvé-Perthes disease</u> (avascular or aseptic necrosis of the femoral head) is more likely to occur <u>between the ages of 4 and 8 years.</u> Juvenile rheumatoid arthritis typically is associated with other constitutional symptoms including stiffness, fever, and pain in at least one other joint, with the pain not necessarily associated with activity.</b>
<b>09-044.</b> +Mus+Cca. A 13-year-old male presents with a 3-week history of left lower thigh and knee pain. There is no history of a specific injury, and his past medical history is negative. He has had no fevers, night sweats, or weight loss, and the pain does not awaken him at night. He tried out for the basketball team but had to quit because of the pain, which was worse when he tried to run. Which one of the following physical examination findings would be pathognomonic for	Slipped capital femoral epiphysis. <b>09-044.</b> (SCFE). Ans=C. Typically occurs in young adolescents during the growth spurt. Physical activity, obesity, and male gender are predisposing factors for the development of this condition, in which the femoral head is displaced posteriorly through the growth plate. There is pain with physical activity, most commonly in the upper thigh anteriorly, but one-third of patients present with referred lower thigh or knee pain, which can make accurate

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
slipped capital femoral epiphysis? A) Excessive forward passive motion of the tibia with the knee flexed B) Lateral displacement of the patella with active knee flexion C) Limited internal rotation of the flexed hip D) Reduced hip abduction with the hip flexed E) Inability to extend the hip past the neutral position	and timely diagnosis more difficult. The hallmark of SCFE on examination is limited internal rotation of the hip. Specific to SCFE is the even greater limitation of internal rotation when the hip is flexed to 90°. No other pediatric condition has this physical finding, which makes the maneuver very useful in children with lower extremity pain. Orthopedic consultation is advised if SCFE is suspected. Hip extension and abduction are also limited in SCFE, but these findings are nonspecific. The knee findings in this patient are not associated with SCFE.
<b>10-238.</b> +Mus+Cca. Which one of the following best describes the condition seen	Slipped capital femoral epiphysis. 10-238. ANS=D. The radiograph shows a
in the radiograph in <b>Figure 6</b> ? A) Osgood-Schlatter disease B) Legg-Calvé-Perthes disease C) Blount's disease D) Slipped capital femoral epiphysis E) A normal hip	typical slipped capital femoral epiphysis, with the epiphysis displaced posteriorly and medially. The problem usually occurs in late childhood or adolescence. Osgood-Schlatter disease involves the anterior tibial tubercle. Legg-Calvé-Perthes disease is avascular necrosis of the femoral head. Blount's disease involves the medial portion of the proximal tibia. All of these conditions cause leg pain in children.
07-071. +Psy+Mhe. Which one of the following would be a major	Smoking cessation. 07-071. Bupropion. Medications to help patients with
<ul> <li>contraindication to using bupropion (Wellbutrin) for smoking cessation?</li> <li>A) A history of seizures</li> <li>B) Bipolar depression</li> <li>C) Hemolytic anemia</li> <li>D) Mitral valve prolapse</li> <li>E) Hypothyroidism</li> </ul>	tobacco cessation are not without dangers. <b>ANS=A.</b> <u>Bupropion</u> has a good record of success in assisting patients to stop smoking. However, <u>major</u> <u>contraindications to its use include a history of seizures, an eating disorder,</u> <u>or recent MAO inhibitor use.</u> The other conditions listed should always be considered, but are not usually a major contraindication to bupropion use.
<ul> <li>08-028. +Pbc+Adm. A 45-year-old male asks about using nicotine replacement therapy (NRT) to help him quit smoking. You tell him that recent evidence shows that</li> <li>A) NRT usually doubles a smoker's chance of quitting</li> <li>B) NRT must be tapered off</li> <li>C) NRT should be used for at least 6 months to be effective</li> <li>D) nicotine patches are the most effective form of NRT</li> <li>E) using combinations of NRT reduces the likelihood that a relapsed smoker will quit</li> </ul>	Smoking cessation. <b>08-028. ANS=A.</b> A Cochrane meta-analysis of nicotine replacement therapy (NRT) found that it almost doubles a smoker's chances of quitting (SOR A). There was no benefit to tapering NRT as compared to abrupt discontinuation. Treatment for 8 weeks was as effective as a longer course. No one type of NRT is significantly more effective, but combining several types may aid a relapsed smoker in his or her next quit attempt.
<b>10-223.</b> +Res+Adm. A 42-year-old male seeks your advice regarding smoking cessation. You recommend a smoking cessation class, as well as varenicline (Chantix). You caution him that the most common side effect is	Smoking cessation. <b>10-223.</b> varenicline. <b>ANS=E.</b> The most common adverse event attributed to varenicline at a dosage of 1 mg twice a day is nausea, occurring in approximately 30%–50% of patients. Taking the drug with food lessens the
A) dermatitis B) diarrhea C) adama	nausea.
C) edema Copyrighted Material. ITE Personal Notes. Not for Sale. Page 149 of 170 receive."	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

D) hirsutism	
<ul> <li>E) nausea</li> <li>08-116. +Pbc+Mhe. Which one of the following is a significant side effect of varenicline (Chantix)?</li> <li>A) Facial hirsutism</li> <li>B) Paroxysmal dysrhythmias</li> <li>C) Playment transmission</li> </ul>	Smoking sesation. <b>08-116.</b> varenicline (Chantix). <b>ANS=D.</b> Education, support, and medications are all valuable tools in assisting patients with a smoking habit. Varenicline, a clinically effective smoking-cessation product, has been associated with patient mood changes following the initiation of therapy, including suicidal
<ul> <li>C) Pleurisy-like symptoms</li> <li>D) Suicidal ideation</li> <li>E) Insomnia</li> <li>09-095. +Psy+Adm. A 52-year-old male requests "everything you've got" to help</li> </ul>	thoughts and aggressive and erratic behavior. The other problems listed have not been associated with varenicline use. Smoking sesation. <b>09-095. varenicline. ANS=A.</b> Varenicline works by binding to
him stop smoking. You review common barriers to quitting and the benefits of cessation with him, and develop a plan that includes follow-up. He chooses to start varenicline (Chantix) to assist with his efforts, and asks about also using nicotine replacement. Which one of the following would be accurate advice? A) Combining these medications has not proven to be beneficial B) The addition of transdermal nicotine, but not nicotine gum, has proven benefits C) The combination is highly efficacious D) Nicotine replacement doses need to be doubled in a patient taking varenicline E) The combination of nicotine and varenicline is potentially lethal	nicotine receptors in the brain, providing much lower stimulation than nicotine itself would. This has the effect of reducing the reinforcement and reward that smoking provides to the brain. However, this medication also blocks the benefit a patient would receive from nicotine replacement products. <b>Studies have shown</b> that using nicotine replacement products concurrently with varenicline leads to an increase in nausea, headaches, dizziness, and fatigue.
<ul> <li>08-205. +Psy+Mhe. A 35-year-old female sees you because she has lost her voice. She has had no recent upper respiratory infection symptoms, cough, or heartburn, and she has not done anything that would strain her voice. Examination of the head and neck appear normal. A review of her chart shows this has happened before, but an ear, nose, and throat evaluation found no abnormalities. She also has been seen numerous times in the past few years for headaches, chest pains, abdominal pains, rectal pressure, and vaginal symptoms. Despite several workups and referrals, no definite cause has been found and the symptoms persist. Which one of the following would be the most reasonable plan of action?</li> <li>A) Test for food allergies</li> <li>B) Begin low-dose lorazepam (Ativan)</li> <li>C) Begin a 6-week trial of a proton pump inhibitor</li> <li>D) Schedule frequent office visits</li> </ul>	Somatization disorders. <b>08-205.</b> Somatization disorders should be considered in patients who have a history of various complaints over a several-year period that involve multiple organ systems. <b>ANS=D.</b> There is no test to confirm this diagnosis. It is often intertwined in other psychiatric problems, including anxiety disorder, personality disorder, and depression. Treatment includes testing to make sure that there is nothing physically wrong, while building a trusting relationship with the patient. Once this is accomplished, it is reasonable to discuss the disorder with the patient. Cognitive therapy has been shown to be of value, as well as regularly scheduled office visits for monitoring and support. Medicines for coexisting psychiatric problems also are of benefit. In addition, referral for psychiatric consultation may be worthwhile. Food allergies can cause a variety of symptoms, but usually not to the extent seen with this patient, and testing for this might confuse the issue. Lorazepam may help the symptoms if there is a coexisting anxiety disorder, but it will not address the underlying problem. Laryngeal esophageal reflux can cause hoarseness and will respond to proton pump inhibitors, but given the repetitive nature of her symptoms and the previous negative workups, it is not consistent with the whole picture.
<ul> <li>a) Onset before age 40 is atypical</li> <li>b) It is a form of malingering</li> <li>c) Symptoms tend to resolve spontaneously within weeks of onset</li> <li>d) Symptoms are limited to one organ system or bodily function</li> <li>e) The incidence is increased among female first degree relatives of patients with the disorder</li> </ul>	characterized by the chronic presence of several unexplained symptoms beginning before the age of 30 years. <b>ANS=E</b> . It is diagnostically grouped with conversion disorder, hypochondriasis, and body dysmorphic disorder. By definition, the symptom complex must include a minimum of two symptoms relating to the gastrointestinal system, one neurologic complaint, one sexual complaint, and four pain complaints. The condition is more common in women than in men, and the incidence is increased as much as tenfold in female first degree relatives of affected patients.
<ul> <li>07-190. +Pbc+Cca. The U.S. Preventive Services Task Force (USPSTF) makes which one of the following recommendations regarding screening for speech and language delay in preschool children using brief, formal screening instruments that are suitable for use in primary care?</li> <li>A) Screening is strongly recommended for all preschool children because good evidence exists for substantial benefit over harm</li> <li>B) Screening is not recommended because it is ineffective</li> <li>C) Screening is not recommended because the potential harm outweighs the potential benefits</li> <li>D) The evidence is insufficient to recommend for or against routine screening</li> </ul>	Speech and language delay. <b>07-190.</b> Speech and language delay affects 5%–8% of preschool children. Recommendations; <b>ANS=D.</b> It often continues into the school years and may be connected to poor school performance and psychosocial problems. In reviewing the data, the U.S. Preventive Services Task Force (USPSTF) found insufficient evidence that brief, formal screening instruments that are suitable for use in primary care for assessing speech and language development can accurately identify children who would benefit from further evaluation and intervention. Therefore, the USPSTF makes an "T" recommendation—the evidence is insufficient to recommend for or against routinely providing the service. Fair evidence suggests that interventions can improve the results of short-term assessments of speech and language skills; however, no studies have assessed long-term outcomes. Furthermore, no studies have addressed benefits from the use of brief, formal screening compared to addressing only those problems identified from clinical or parental concerns. No studies have addressed the potential harms of screening or interventions for speech and language delays, such as labeling, parental anxiety, or unnecessary evaluation and intervention. The guidelines presented are based on the best available evidence at the time they are written. In cases where the evidence is insufficient to recommend for or against an intervention, physicians should base clinical decisions on the individual patient's situation.
07-046. +Gas+Euc. A 45-year-old female is hospitalized with fever and mild confusion. On examination she has ascites, and the liver edge is firm and irregular. Blood is drawn, and paracentesis is performed.         Laboratory Findings         Serum albumin.       2.4 g/dL (N 3.1–4.3)         Total protein.       4.7 g/dL (N 6.0–8.0)         Ascitic fluid.       cloudy yellow         Cytology.       negative for malignant cells         Albumin.       0.6 g/dL         Protein.       0.9 g/dL         Copyrighted Material. ITE Personal Notes. Not for Sale.       Page 150 of 170	Spontaneous bacterial peritonitis (SBP). 07-046. ANS=A. The serum–ascitic fluid albumin gradient >1.1 indicates that this patient has ascites due to portal hypertension. The negative cytology and an ascitic fluid amylase level <100 U/L make peritoneal carcinomatosis and ascites secondary to pancreatitis unlikely. An ascitic fluid WBC count >500/mm3, with >50% polymorphonuclear leukocytes, points to bacterial peritonitis. Secondary bacterial peritonitis is usually polymicrobial, with ascitic fluid total protein levels >1.0 g/dL. With primary bacterial peritonitis a single organism is usually seen on a culture, with ascitic fluid total protein levels <1.0 g/dL. Ascites is diagnosed in the following manner: Ultrasound and paracentesis: Check cell count, differential, albumin, and Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>WBCs</li></ul>	bacterial cultures +/- acid-fast stain and +/- cytology. The etiology of the ascites can be further characterized as follows: $\blacksquare$ Related to portal hypertension (serum- ascites albumin gradient [SAAG] $\ge 1.1$ ): Cirrhosis, heart failure, Budd-Chiari syndrome (hepatic vein thrombosis). $\blacksquare$ Unrelated to portal hypertension (SAAG < 1.1): Peritonitis (e.g., TB), cancer, pancreatitis, trauma, nephrotic syndrome. $\blacksquare$ If a patient with cirrhosis and established ascites presents with worsening ascites, fever, altered mental status, renal dysfunction, or abdominal pain, think of spontaneous bacterial peritonitis (SBP). <u>Uptodate:</u> TREATMENT — Empiric therapy of suspected SBP must be initiated as soon as possible to maximize the patient's chance of survival. The recommendations that follow are consistent with a 2009 guideline issued by the American Association for the Study of Liver Diseases. The main indication for empiric therapy is the otherwise unexplained presence of one or more of the following findings that are characteristically seen in SBP: •Temperature greater than 37.8°C (100°F) •Abdominal pain and/or tenderness •A change in mental status •Ascitic fluid PMN count $\ge 250$ cells/mm3. Concerns about the safety of paracentesis should not prevent this crucial diagnostic procedure from being performed. Cefotaxime dose of 2 g Q8h or a similar third-generation cephalosporin is a
07-056. +Pbc+Com. Which one of the following is a contraindication to participation in contact sports? A) A single testicle B) Fever C) Documented scoliosis of 20 degrees D) Sickle cell trait	reasonable choice for suspected SBP. Sports Medicine. <b>07-056.</b> Contact sports participation. <b>ANS=B.</b> Having a single testicle is not a contraindication to contact sports, but it does necessitate a discussion regarding the potential risk, as well as the use of a protective cup. A single ovary is not a contraindication because it is well protected. Fever is a contraindication to participation since it increases cardiovascular effort, as well as the potential for heatstroke and orthostatic hypotension and dehydration. The rare possibility of an associated myocarditis also should be taken into account. Carditis may result in sudden death with exertion. Scoliosis should be looked into prior to allowing a child to participate in contact sports, but once the diagnosis is made it is rarely a contraindication to contact sports, although sickle cell disease can be a contraindication to strenuous activities or sports associated with significant contact.
<b>09-201.</b> +Non+Adm. According to both the Centers for Disease Control and the American College of Sports Medicine, in order to burn fat stores obese patients should exercise A) a minimum of 30 minutes 3 days/week B) a minimum of 30 minutes at least 5 days/week C) a minimum of 20 minutes every day D) a minimum of 10 minutes at least 3 times daily	Sports Medicine. <b>09-201.</b> Obecity. <b>09-201. ANS=B.</b> Because glycogen is the primary energy source for muscles during the first 20 minutes of exercise, at least 30 minutes of exercise is necessary to begin burning fat stores. The CDC and the American College of Sports Medicine recommend a minimum of 30 minutes of exercise 5 days per week. Twenty minutes of exercise daily or three 10-minute sessions daily does improve cardiovascular fitness, but does not cause significant weight loss. Walking, on land or in water, and stationary biking are equivalent in benefit.
<ul> <li>07-224. +Int+Adm. A 75-year-old white male presents with a nonhealing 2.5-cm ulcer on his neck. A 4-mm punch biopsy reveals a squamous cell carcinoma. Which one of the following would be most appropriate at this time?</li> <li>A) Cryosurgery</li> <li>B) Electrodesiccation and curettage</li> <li>C) Mohs' surgery</li> <li>D) Surgical excision with 6-mm margins</li> </ul>	Squamous cell carcinoma. ANS=D. For treatment of squamous cell carcinoma ≥20 mm, surgical excision with 6-mm margins is the preferred treatment. This will clear 95% or more of these tumors, and provides good cosmetic results. Cryosurgery or electrodessication can be used for tumors <1 cm. Mohs' surgery would be appropriate if the tumor were high-risk (e.g., if it were in a location associated with a high risk of metastasis.)
<ul> <li>E) Radiotherapy</li> <li>08-187. +Pbc+Cca. A 3-year-old female is brought to your office for a health maintenance examination, and her father expresses concern about her vision. Her visual acuity is 20/20 bilaterally on a "tumbling E" visual acuity chart. With both eyes uncovered during a cover/uncover test, the corneal light reflex in the right eye is medial to the pupil when focused on a fixed point, but the light reflex in the left eye is almost centered in the pupil. When the left eye is covered, the right eye moves quickly inward to focus on the fixed point, and the corneal light reflex is centered in the pupil. When the left eye, no left eye movement is noted. Which one of the following is the most likely diagnosis?</li> <li>A) Strabismus</li> <li>B) Amblyopia</li> <li>C) Cataract</li> </ul>	Strabismus. <b>08-187.</b> Strabismus is an ocular misalignment that can be diagnosed on a cover/ uncover test when the corneal light reflex is deviated from its normal position slightly nasal to mid-pupil. <b>ANS=A.</b> The misaligned eye then moves to fixate on a held object when the opposite eye is covered. The eye drifts back to its original position when the opposite eye is uncovered. Amblyopia is a visual impairment from abnormal visual development—most often as a result of strabismus. Cataract is a less frequent cause of amblyopia. Esotropia is a type of strabismus with an inward or nasal deviation of the eye that would be evidenced by a corneal light reflex lateral to its normal position. (The outward eye deviation seen in this patient is exotropia.) Heterophoria, or latent strabismus, does not cause eye deviation when both eyes are uncovered. <b>See also 07-184: Amblyopia due to strabismus is the leading cause of</b>
D) Esotropia E) Heterophoria	monocular vision loss in children and young adults.
<b>10-077.</b> +Pbc+Com. The Strength-of-Recommendation Taxonomy (SORT) is used to grade key recommendations in clinical review articles. Which one of the following grades indicates that a recommendation is based on consistent, good- quality, patient-oriented evidence? A) A B) B C) C D) X	Strength-of-Recommendation Taxonomy. <b>10-077. ANS=A.</b> When possible, it is important for the family physician to base clinical decisions on the best evidence. Strength-of-Recommendation Taxonomy (SORT) grades in medical literature are intended to help physicians practice evidence-based medicine. SORT grades are only A, B, and C. These should not be confused with the U.S. Food and Drug Administration labeling categories for the potential teratogenic effects of medications on a fetus: pregnancy categories A, B, C, D, and X. Strength of Recommendation (SOR) A is a recommendation that is based on consistent, good-quality, patient-oriented evidence. SOR C is a recommendation that is based on consensus, disease-oriented evidence, usual practice, expert opinion, or
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 151 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	case series for studies of diagnosis, treatment, prevention, or screening.
09-047. +Neu+Cel. A 68-year-old white male with diabetes mellitus is	Stroke. 09-047. BP control. Ans=A. Current American Heart Association
hospitalized after suffering a right middle cerebral artery stroke. A nurse in the	guidelines for blood pressure control in stroke patients advise monitoring with no
intensive-care unit calls to advise you that his blood pressure is 200/110 mm Hg.	additional treatment for patients with a systolic blood pressure <220 mm Hg or a
You should A) continue monitoring the patient B) administer labetalol (Trandate)	diastolic blood pressure <120 mm Hg. The elevated blood pressure is thought to
C) administer nicardipine (Cardene) D) administer nitroprusside (Nitropress) E)	be a protective mechanism that increases cerebral perfusion, and lowering the
administer nitroglycerin	blood pressure may increase morbidity.
<b>10-218.</b> +Neu+Euc.? A 60-year-old right-handed white male arrives in the	Stroke. 10-218. emergency management. ANS=A. Maintaining adequate tissue
emergency department with symptoms and signs consistent with a stroke. His past	oxygenation is an important component of the emergency management of
medical history is significant for tobacco abuse and chronic treated hypertension.	stroke. Hypoxia leads to anaerobic metabolism and depletion of energy stores,
He is alert and afebrile. His pulse rate is 100 beats/min,	increasing brain injury. While there is no reason to routinely administer
respirations 20/min, and blood pressure 190/95 mm Hg. He has a moderate right-	supplemental oxygen, the potential need for oxygen should be assessed using
sided hemiparesis and is aphasic. There are no other significant physical findings.	pulse oximetry or blood gas measurement. <b>Overzealous use of antihypertensive</b>
While appropriate tests are being ordered, immediate management in the	drugs is contraindicated, since this can further reduce cerebral perfusion. In
emergency department should include which one of the following?	general, these drugs should not be used unless mean blood pressure is >130
A) Monitoring oxygenation status with pulse oximetry	mm Hg or systolic blood pressure is >220 mm Hg. Antithrombotic drugs such
B) Prompt lowering of systolic blood pressure to <140 mm Hg	as heparin must be used with caution, and only after intracerebral hemorrhage has
C) Beginning an intravenous heparin infusion	been ruled out by baseline CT followed by repeat CT within 48-72 hours.
D) Restricting fluid intake to 75 cc/hr	Hypovolemia can exacerbate cerebral hypoperfusion, so there is no need to
E) Giving parenteral corticosteroids	restrict fluid intake. Optimization of cardiac output is a high priority in the
	immediate hours after a stroke. Based on data from randomized clinical trials,
	corticosteroids are not recommended for the management of cerebral edema
	and increased intracranial pressure after a stroke.
08-091. +Neu+Euc. A 36-year-old female presents with the sudden onset of	Subarachnoid hemorrhage. <b>08-091.</b> The first study ordered in any patient with
severe headache, nausea, and photophobia. Her level of consciousness is	suspected subarachnoid hemorrhage should be a head CT without contrast.
progressively diminishing. Which one of the following would be the most	ANS=A. It will reveal subarachnoid hemorrhage in 100% of cases within 12
appropriate next step?	hours of the bleed, and it is useful for identifying other sources for the headache,
A) Head CT without contrast	for predicting the site of the aneurysm, and for predicting cerebral vasospasm and
B) Head CT with contrast	poor outcome. As blood is cleared from the affected area, CT sensitivity drops to
C) Head MRI	93% within 24 hours, and to 50% at 7 days. Patients with a positive CT result for
D) Lumbar puncture	subarachnoid hemorrhage should proceed directly to angiography and treatment.
E) CT angiography	Patients with a suspected subarachnoid hemorrhage who have negative or
L) CT anglography	equivocal results on head CT should have a lumbar puncture. MRI and CT with
	contrast are not used for the diagnosis of acute subarachnoid hemorrhage.
07-045. +Car+Cca. A 16-year-old high-school football player presents for a	Sudden death. <b>07-045.</b> Hypertrophic cardiomyopathy. <b>07-045.</b> Hypertrophic
preparticipation evaluation. He is healthy and has no significant medical history.	cardiomyopathy is the most common cause of sudden cardiac death in young
However, his brother died suddenly during football practice at age 15. Which one	athletes in the United States. ANS=C. It is autosomal dominant with variable
of the following is the most likely cause of the brother's death? A) Congenital long QT syndrome	penetrance. Subaortic stenosis is present in about 25% of cases (also known as idiopathic hypertrophic subaortic stenosis or asymmetric septal hypertrophy).
B) Congenital short QT syndrome	Symptoms range from none to weakness, fatigue, exertional dyspnea, dizziness,
C) Hypertrophic cardiomyopathy	
D) Wolff-Parkinson-White syndrome	chest pain, and syncope. A systolic ejection murmur increasing with the Valsalva maneuver is present in many cases. Long QT syndrome and aortic stenosis are
E) Aortic stenosis	also causes of sudden death in the young athlete, but are less common.
<b>07-064.</b> +Car+Adm. The most effective means of preventing sudden death in his haid activate with a summary his analysis and the summary sudden death in	Sudden death. 07-064. Hypertrophic cardiomyopathy. 07-064. (HCM). ANS=E.
high-risk patients with asymptomatic hypertrophic cardiomyopathy is	Many patients with hypertrophic cardiomyopathy (HCM) never have any clinical
A) amiodarone (Cordarone)	signs or symptoms. The major cause of mortality is sudden death, which can
B) metoprolol (Lopressor)	occur in both asymptomatic and symptomatic patients, often after physical
C) verapamil (Calan, Isoptin)	exertion. Patients with HCM should be counseled about the risk of competitive
D) chronic dual-chamber pacing	sports and dehydration. Medications such as verapamil, B-blockers, and diltiazem
E) an implantable cardioverter-defibrillator (ICD)	are used for symptom management, but do not decrease the risk of sudden death.
	Because of its effects on decreasing dysrhythmias, amiodarone may decrease the
	risk of sudden death, which is supported by anecdotal data. For most patients with
	HCM, the annual risk of dying is similar to that of the normal adult population, or
	1% per year. Patients most at risk for sudden death include those with ventricular
	tachycardia on an ambulatory monitor, marked left ventricular hypertrophy,
	abnormal blood pressure response to exercise, syncope, and a family history of
	sudden death. At present, the implantable cardioverter-defibrillator (ICD) is the
	most effective modality for preventing sudden death in high-risk patients with
	asymptomatic HCM. Pacing does not reduce risk significantly.
<b>07-116.</b> +Car+Adm. A 55-year-old male with a 5-year history of type 2 diabetes	Sudden death. 07-116. Statin use in high risk patients; Recommendations.
mellitus comes to your office for follow-up. He has lost 9 kg (20 lb) in the past	ANS=E. The Heart Protection Study demonstrated a significant decrease in the
year and reports good control of his glucose levels. His examination is	rates of major vascular events (myocardial infarction, stroke, and death)
unremarkable, and his blood pressure is 130/80 mm Hg. Laboratory results reveal	when simvastatin was added to the medical regimen of individuals at high
a normal CBC and blood chemistry, and his urine is negative for microalbumin.	risk. Benefits for those with coronary artery disease, peripheral vascular
His hemoglobin A1c is 6.5%, while a lipid profile reveals an HDL level of 42	disease, cerebrovascular disease, or diabetes mellitus, and for males older
mg/dL, an LDL level of 98 mg/dL, and a triglyceride level of 148 mg/dL. This	than 65 with hypertension, were significant regardless of lipid levels.
patient's risk of sudden death, myocardial infarction, and stroke can be decreased	
by adding A) niacin B) lisinopril (Prinivil, Zestril) C) metoprolol (Lopressor) D)	
hydrochlorothiazide E) simvastatin (Zocor)	
<b>08-169.</b> +Car+Com. In a preadolescent athlete, sudden death from a blunt injury	Sudden death. 08-169. Commotio cordis usually results from impact with a
to the chest (commotio cordis) is most likely to occur in which one of the	projectile in sports. ANS=A. Children and adolescents may have increased risk
following situations?	due to a compliant chest wall. Ventricular fibrillation is thought to result from the
A) A pitcher is struck by a line drive	impact. Softer "safety" baseballs are one consideration in primary prevention.
B) A basketball player is struck by the ball	Older competitors are at less risk. Large blunt objects or body-to-body contact

A) A pitcher is struck by a line drive B) A basketball player is struck by the ball C) A chest-to-chest collision occurs during a soccer game Copyrighted Material. ITE Personal Notes. Not for Sale. receive."

Mario's ITE database V2010.007

Page 152 of 170

also carries less risk.

Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Older competitors are at less risk. Large blunt objects or body-to-body contact

Document copy for the sole personal use of Dr. Mario Alberto Jimenez

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
D) Hockey players skate into each other	
<ul> <li>E) A football player is struck by the shoulder pad of a lineman</li> <li>09-028. +Car+Cca. A 17-year-old soccer player presents for a preparticipation</li> </ul>	Sudden deeth 00.028 Constitutions OT sundrames a family history of and den
examination. His family history is significant for the sudden death of his 12-year-	Sudden death. <b>09-028</b> . <u>Genetic long-QT syndrome</u> ; a <u>family history of sudden</u> <u>death and recurrent syncope is highly suspicious</u> for it. It is best diagnosed
old sister while playing basketball, and for his mother and maternal grandmother	with a resting EKG that shows a QTc >460 msec in females and >440 msec in
having recurrent syncopal episodes. His medical history and examination are	males. This syndrome especially places young people at risk for sudden death.
completely normal. Prior to approving his participation in sports, which one of the	Management may include B-blockers, an implantable cardioverter-
following is recommended? A) A resting EKG B) A stress EKG C) An	defibrillator, and no participation in competitive sports.
echocardiogram D) Pulmonary function testing E) No further evaluation	
<b>07-077.</b> +Pbc+Cca. Which one of the following is associated with a reduction in risk for guiden infant double and name?	Sudden infant death syndrome (SIDS). <b>07-077.</b> ANS=A. Sleeping with a pacifier has been associated with a reduced risk for SIDS, which occurs most frequently
risk for sudden infant death syndrome? A) Pacifier use	between 2 and 4 months of age. Putting a baby to sleep in a prone position or on
B) A soft mattress	his or her side increases the risk of SIDS. Sleeping on soft bedding, or with
C) Putting the baby to sleep in a prone position	comforters, quilts, or stuffed toys also increases the risk, as does sleeping with
D) Putting the baby to sleep on his or her side	parents or siblings. Sleeping in a separate bed or crib in the same room with the
	parents may be a safer alternative.
<b>10-007.</b> +Non+Cca. Which one of the following is recommended to reduce the	Sudden infant death syndrome (SIDS). 10-007. ANS=D. Home cardiorespiratory
risk of sudden infant death syndrome (SIDS)?	monitoring has not been shown to be effective for preventing sudden infant death
A) The use of home cardiorespiratory monitors	syndrome (SIDS). The risk of SIDS increases with higher room temperatures and
<ul><li>B) The use of soft bedding materials</li><li>C) Having the infant sleep in a prone position</li></ul>	soft bedding. Placing the infant in a supine position will significantly decrease the risk of SIDS, and is probably the most important preventive measure that can be
D) Having the infant sleep in a sporate bed	taken. Bed sharing has been shown to increase the risk of SIDS.
E) Maintaining a room temperature of $78^{\circ}F-80^{\circ}F$ when the infant is sleeping	
07-235. +Car+Adm. Which one of the following is true regarding supraventricular	Supraventricular tachycardia. 07-235. ANS=A. The use of verapamil,
tachycardia (SVT)?	propranolol, or digoxin reduces SVT episodes by 30%-50%. There is no
A) Verapamil is useful for decreasing recurrences of SVT	evidence that one is superior to the others. Hypokalemia and hyperthyroidism
B) Hyperparathyroidism is a common cause of SVT	can cause SVT, but there is <u>no association with hyperparathyroid disease or</u> hyponatremia. Structural heart disease is a rare cause of supraventricular
<ul><li>C) Hyponatremia is a common cause of SVT</li><li>D) Structural heart disease is often associated with SVT</li></ul>	<b><u>nyponatremia</u></b> . Structural near disease is a rare cause of supraventricular tachycardia, but still should be ruled out with echocardiography. <u>Excessive</u>
E) Excessive alcohol intake can suppress SVT	alcohol use can precipitate SVT.
<b>08-095.</b> +Car+Euc. A 36-year-old white female presents to the emergency	Supraventricular tachycardia. 08-095. If supraventricular tachycardia is
department with palpitations. Her pulse rate is 180 beats/min. An EKG reveals a	refractory to adenosine or rapidly recurs, the tachycardia can usually be
regular tachycardia with a narrow complex QRS and no apparent P waves. The	terminated by the administration of intravenous verapamil or a B-blocker.
patient fails to respond to carotid massage or to two doses of intravenous	ANS=E. If that fails, intravenous propafenone or flecainide may be
adenosine (Adenocard), 6 mg and 12 mg. The most appropriate next step would	necessary. It is also important to look for and treat possible <u>contributing causes</u>
be to administer intravenous	such as hypovolemia, hypoxia, or electrolyte disturbances. Electrical
A) amiodarone (Cordarone) B) digoxin (Lanoxin)	cardioversion may be necessary if these measures fail to terminate the tachyarrhythmia.
B) digoxin (Lanoxin)	tachyarrhythmia.
B) digoxin (Lanoxin) C) flecainide (Tambocor)	
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
B) digoxin (Lanoxin) C) flecainide (Tambocor) D) propafenone (Rhythmol) E) verapamil (Calan)	tachyarrhythmia.
<ul><li>B) digoxin (Lanoxin)</li><li>C) flecainide (Tambocor)</li><li>D) propafenone (Rhythmol)</li></ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93%</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best treatment for this patient? A) Synchronized DC cardioversion B) Metoprolol</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best treatment for this patient? A) Synchronized DC cardioversion B) Metoprolol</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best treatment for this patient? A) Synchronized DC cardioversion B) Metoprolol (Lopressor) C) Amiodarone (Cordarone) D) Adenosine (Adenocard) E) Atropine</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O'-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best treatment for this patient? A) Synchronized DC cardioversion B) Metoprolol (Lopressor) C) Amiodarone (Cordarone) D) Adenosine (Adenocard) E) Atropine</li> <li>10-134. +Car+Euc.* A 20-year-old patient comes to the emergency department</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>Ø-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best treatment for this patient? A) Synchronized DC cardioversion B) Metoprolol (Lopressor) C) Amiodarone (Cordarone) D) Adenosine (Adenocard) E) Atropine</li> <li>10-134. +Car+Euc.* A 20-year-old patient comes to the emergency department complaining of shortness of breath. On examination his heart rate is 180</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best treatment for this patient? A) Synchronized DC cardioversion B) Metoprolol (Lopressor) C) Amiodarone (Cordarone) D) Adenosine (Adenocard) E) Atropine</li> <li>10-134. +Car+Euc.* A 20-year-old patient comes to the emergency department complaining of shortness of breath. On examination his heart rate is 180 beats/min, and his blood pressure is 122/68 mm Hg. An EKG reveals a narrow</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>9-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best treatment for this patient? A) Synchronized DC cardioversion B) Metoprolol (Lopressor) C) Amiodarone (Cordarone) D) Adenosine (Adenocard) E) Atropine</li> <li>10-134. +Car+Euc.* A 20-year-old patient comes to the emergency department complaining of shortness of breath. On examination his heart rate is 180</li> </ul>	tachyarrhythmia.
<ul> <li>B) digoxin (Lanoxin)</li> <li>C) flecainide (Tambocor)</li> <li>D) propafenone (Rhythmol)</li> <li>E) verapamil (Calan)</li> <li>E) verapamil (Calan)</li> <li>O'-237. +Car+Adm. A hospitalized 55-year-old male has developed the tachyarrhythmia shown in Figure. He is alert and denies chest pain, although he complains of palpitations and is mildly dyspneic since the onset of this sustained dysrhythmia. His blood pressure is 116/76 mm Hg and pulse oximetry shows 93% saturation on 2L of oxygen. Which one of the following would be the best treatment for this patient? A) Synchronized DC cardioversion B) Metoprolol (Lopressor) C) Amiodarone (Cordarone) D) Adenosine (Adenocard) E) Atropine</li> <li>I-1-134. +Car+Euc.* A 20-year-old patient comes to the emergency department complaining of shortness of breath. On examination his heart rate is 180 beats/min, and his blood pressure is 122/68 mm Hg. An EKG reveals a narrow complex tachycardia with a regular rhythm. Which one of the following would be</li> </ul>	tachyarrhythmia.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
C) Adenosine (Adenocard) D) Magnesium	
E) Synchronized cardioversion	
<ul> <li>10-235. +Car+Adm. Which one of the following medications is most effective for treating the arrhythmia shown in Figure 3?</li> <li>A) Atropine</li> <li>B) Bretylium tosylate (Bretylol)</li> <li>C) Lidocaine (Xylocaine)</li> <li>D) Procainamide (Pronestyl)</li> </ul>	Supraventricular tachycardia. <b>10-235.</b> Adenosine, an expensive intravenous drug is highly effective in terminating many resultant supraventricular arrhythmias. <b>ANS=E.</b> Although it can cause hypotension or transient atrial fibrillation, adenosine is probably safer than verapamil because it disappears from the circulation within seconds. Because of its safety, many cardiologists now prefer adenosine over verapamil for treatment of hypotensive supraventricular tachycardia. Bretvlium tosvlate. procainamide. and lidocaine are used to treat
) Adenosine (Adenocard)	achosine over verapaini for nearment of hypotensive supraveint cutar tachycardia. Bretylium tosylate, proceinamide, and lidocaine are used to treat ventricular arrhythmias. Atropine is indicated in the treatment of sinus bradycardia.
<b>9-231.</b> +Res+Cel. Sympathomimetic decongestants such as pseudoephedrine and henylephrine can be problematic in elderly patients because they can A) decrease lood pressure B) cause bradycardia C) worsen existing urinary obstruction D) nhance the anticholinergic effects of other medications E) enhance the sedative ffects of other medications	Sympathomimetic agents. <b>09-231.</b> Sympathomimetic agents can elevate blood pressure and intraocular pressure, may worsen existing urinary obstruction, and adversely interact with B-blockers, methyldopa, tricyclic antidepressants, and ora hypoglycemic agents and MAOIs. <b>ANS=C.</b> They also speed up the heart rate. First-generation nonprescription antihistamines can enhance the anticholinergic and sedative effects of other medications.
<b>19-117.</b> +Non+Euc. A 50-year-old male is brought to the emergency department because of a syncopal episode. Prior to the episode, he felt bad for 30 minutes, hen developed nausea followed by vomiting. During a second bout of vomiting ne blacked out and fell to the floor. His wife did not observe any seizure activity, and he was unconscious only for a few seconds. His history is otherwise negative,	Syncope. 09-117. ANS=E. The workup of patients with syncope begins with a history and a physical examination to identify those at risk for a poor outcome. Patients who have a prodrome of 5 seconds or less may have a cardiac arrhythmi Patients with longer prodromes, nausea, or vomiting are likely to have vasovagal syncope, which is a benign process. Patients who pass out after standing for 2

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
his past medical history is unremarkable, and he currently takes no medications. A physical examination is normal. Which one of the following would be the most helpful next step? A) CT of the head B) Carotid Ultrasonography C) A CBC and complete metabolic profile D) Echocardiography E) An EKG	minutes are likely to have orthostatic hypotension. In most cases, the recommended test is an EKG. If the EKG is normal, dysrhythmias are not a likely cause of the syncopal episode. Laboratory testing and advanced studies such as CT or echocardiography are not necessary unless there are specific findings in either the history or the physical examination.
<ul> <li>09-162. +Car+Cel. A 75-year-old otherwise healthy white female states that she has passed out three times in the last month while walking briskly during her daily walk with the local senior citizens mall walkers' club. This history would suggest which one of the following as the etiology of her syncope?</li> <li>A) Vasovagal syncope</li> <li>B) Transient ischemic attack</li> <li>C) Orthostatic hypotension</li> <li>D) Atrial myxoma</li> <li>E) Aortic stenosis</li> </ul>	Syncope. <b>09-162.</b> Syncope with exercise is a manifestation of organic heart disease in which cardiac output is fixed and does not rise (or even fall) with exertion. <b>ANS=E.</b> Syncope, commonly on exertion, is reported in up to 42% of patients with severe aortic stenosis. Vasovagal syncope is associated with unpleasant stimuli or physiologic conditions, including sights, sounds, smells, sudden pain, sustained upright posture, heat, hunger, and acute blood loss. Transient ischemic attacks are not related to exertion. Orthostatic hypotension is associated with changing from a sitting or lying position to an upright position. Atrial myxoma is associated with syncope related to changes in position, such as bending, lying down from a seated position, or turning over in bed.
<b>07-137.</b> +Nep+Adm. A 75-year-old white female presents with hyponatremia, with a serum level of 118 mEq/L, a urine osmolality >100 mOsm/kg H2 O, and a serum osmolality of 242 mOsm/kg H2O. She complains of some fatigue, but is alert and oriented. Her blood pressure is 136/82 mm Hg. She has normal thyroid, adrenal, cardiac, hepatic, and renal function. You admit her to the hospital for treatment and observation. Which one of the following is the most appropriate initial treatment? A) Administration of 3% normal saline B) Administration of normal saline C) Free water restriction D) Demeclocycline (Declomycin)	Syndrome of inappropriate antidiuresis. <b>07-137.</b> Syndrome of inappropriate secretion of antidiuretic hormone (SIADH). <b>ANS=C.</b> This patient probably has the SIADH. SIADH can be caused by CNS tumors, various infections such as meningitis, and pneumonia. Several drugs can cause this condition, including amiodarone, carbamazepine, SSRIs, and chlorpromazine. In this fairly asymptomatic patient, initial management should be free water restriction. As she is hemodynamically stable, she does not need normal saline. Moreover, administration of normal saline may exacerbate the hyponatremia, as the sodium may be rapidly excreted while the water is retained. If she had a rapid onset and neurologic symptoms such as seizures, hypertonic saline could be given. Correction should be slow, with a goal of no more than a 1–2 mmol/L/hr increase in the sodium level; a normal sodium level should not be reached within the first 48 hours of treatment. Demeclocycline is appropriate for patients who cannot adhere to the requirement for fluid restriction, or who have recalcitrant hyponatremia despite restriction.
<ul> <li>08-215. +End+Adm. You see a patient with a serum sodium level of 122 mEq/L (N 135–145) and a serum osmolalityof 255 mOsm/kg H 2 O (N 280–295). Which one of the following would best correlate with a diagnosis of syndrome of inappropriate antidiuresis?</li> <li>A) Fractional excretion of sodium &lt;1%</li> <li>B) Elevated urine osmolality</li> <li>C) Elevated serum glucose</li> <li>D) Elevated BUN</li> <li>E) Low plasma arginine vasopressin</li> </ul>	Syndrome of inappropriate antidiuresis. <b>08-215.</b> (SIAD, formerly SIADH) is related to a variety of pulmonary and central nervous system disorders in which hyponatremia and hypo-osmolality are paradoxically associated with an inappropriately concentrated urine. <b>ANS=B</b> . Most, but not all, cases are associated with increased levels of the antidiuretic hormone arginine vasopressin (AVP). For a diagnosis of SIAD to be made, the patient must be euvolemic and not on diuretics (within 24–48 hours), and the urine osmolality must be high in conjunction with both low serum sodium and low osmolality. The BUN is normal or low and the fractional excretion of sodium is >1%. Fluid restriction (<800 cc/24 hours) over several days will correct the hyponatremia/hypo-osmolality, but definitive treatment requires eliminating the underlying cause, if possible. In the case of severe, acute hyponatremia with symptoms (e.g., confusion, obtundation, seizures), hypertonic (3%) saline can be slowly infused intravenously but can have dangerous neurologic side effects. Elevated serum glucose levels give rise to a factitious hyponatremia, but not SIAD.
<ul> <li>09-091. +Mus+Cca. A 3-year-old male is carried into the office by his mother. Yesterday evening he began complaining of pain around his right hip. Today he has a temperature of 37.6°C (99.7°F), cries when bearing weight on his right leg, and will not allow the leg to be moved in any direction. A radiograph of the hip is normal. Which one of the following would be most appropriate at this time?</li> <li>A) A CBC and an erythrocyte sedimentation rate</li> <li>B) A serum antinuclear antibody level</li> <li>C) Ultrasonography of the hip</li> <li>D) MRI of the hip</li> <li>E) In-office aspiration of the hip</li> </ul>	Synovitis, transient vs. septic arthritis. <b>09-091. ANS=A.</b> This presentation is typical of either transient synovitis or septic arthritis of the hip. Because the conditions have very different treatment regimens and outcomes, it is important to differentiate the two. It is recommended that after plain films, the first studies to be performed should be a CBC and an erythrocyte sedimentation rate (ESR). Studies have shown that septic arthritis should be considered highly likely in a child who has a fever over $38.7^{\circ}$ C ( $101.7^{\circ}$ F), refuses to bear weight on the leg, has a WBC count >12,000 cells/mm, and has an ESR >40 mm3/hr. If several or all of these conditions exist, aspiration of the hip guided by ultrasonography or fluoroscopy should be performed by an experienced practitioner. MRI may be helpful in cases that are unclear based on standard data, or if other etiologies need to be excluded.
09-135. +Non+Adm. A 24-year-old African-American male presents with a history of several weeks of dyspnea, cough productive of bloody streaks, and malaise. His examination is normal except for bilateral facial nerve palsy. A CBC and urinalysis are normal. A chest radiograph reveals bilateral lymph node enlargement. This presentation is most consistent with A) polyarteritis nodosa B) Goodpasture's syndrome C) sarcoidosisD) pulmonary embolus	Systemic autoimmune diseases. <b>09-135.</b> Sarcoidosis is a disease of unknown etiology, affects young to middle-age adults (predominantly 20–29 years old). <b>ANS=C.</b> In the U.S. it is more common in African-Americans. It is asymptomatic in 30%–50% of patients, and is often diagnosed on a routine chest film. About one-third of cases will present with fever, malaise, weight loss, cough, and dyspnea. The pulmonary system is the main organ system affected, and findings may include bilateral hilar lymphadenopathy and discrete, noncaseating epithelial granulomas. Facial nerve palsy is seen in <5% of patients, and usually occurs late in the process. Before Lyme disease was recognized, bilateral facial nerve palsy was almost always due to sarcoidosis. Hemoptysis does not generally occur until late in the course of sarcoidosis, and is usually related to <i>Aspergillus</i> infection or cavitation. Renal involvement rarely results in significant proteinuria or hematuria. Polyarteritis nodosa may involve the lungs. Although pneumonic episodes may be associated with hemoptysis in a small percentage of patients, the chest radiograph is more likely to reveal granulomatous lesions rather than patchy infiltrates. Goodpasture's syndrome is characterized by pulmonary hemorrhage, glomerulonephritis, and antiglomerular basement membrane antibodies. Hemoptysis, pulmonary alveolar infiltrates, dyspnea, and iron-deficiency anemia

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	are frequent presenting features. Within days or weeks, the pulmonary findings are generally followed by hematuria, proteinuria, and the rapid loss of renalfunction. Pulmonary embolus is an acute event, and would present with dyspnea and possibly hemoptysis, but not hilar lymphadenopathy.
<ul> <li>10-166. +Sen+Adm.* A 44-year-old female presents with a complaint of increasingly dry eyes over the past 3–4 months, and says she can no longer wear contacts due to the discomfort and itching. She also apologizes for chewing gum during the visit, explaining that it helps keep her mouth moist. On examination you note decreased tear production, decreased saliva production, and new dental caries. She stopped taking a daily over-the-counter allergy medication about 1 month ago. Which one of the following is the most likely diagnosis?</li> <li>A) Sarcoidosis</li> <li>B) Sjögren's syndrome</li> <li>C) Ocular rosacea</li> <li>D) Allergic conjunctivitis</li> <li>E) Medication side effect</li> <li>07-142. +Car+Adm. Which one of the following studies is the diagnostic procedure of choice to detect giant-cell arteritis? A) Biopsy of the temporalis muscle B) Biopsy of the temporal artery C) CT scan of the temporal artery D) MRI of the temporal artery E) An erythrocyte sedimentation rate</li> <li>09-193. +Car+Cel. A 75-year-old female presents with a 2-month history of</li> </ul>	Systemic autoimmune diseases. <b>10-166.</b> Sjögren's syndrome is one of the three most common systemic autoimmune diseases. It results from lymphocytic infiltration of exocrine glands and leads to acinar gland degeneration, necrosis, atrophy, and decreased function. <b>ANS=B.</b> A positive anti-SS-A or anti-SS-B antigen test or a positive salivary gland biopsy is a criterion for classification of this diagnosis. In addition to ocular and oral complaints, clinical manifestations include arthralgias, thyroiditis, pulmonary disease, and GERD. Most patients with sarcoidosis present with shortness of breath or skin manifestations, and patients with lupus generally have fatigue and joint pain. Ocular rosacea causes eye symptoms very similar to those of Sjögren's syndrome, but oral findings would not be expected. Drugs such as anticholinergics can cause a dry mouth, but this would be unlikely a month after the medication was discontinued (SOR B). Temporal arteritis requires histomorphologic examination of arterial tissue. Considering the lack of specificity of the clinical and laboratory markers and the important therapeutic implications of prolonged corticosteroid therapy, histologic confirmation of the diagnosis should be sought whenever possible. Thus, biopsy of the temporal artery would be most efficacious in diagnosing giant-cell arteritis. <b>Temporal artery sound be most efficacious in diagnosing giant-cell arteritis. Temporal arteritis. 99-193. ANS=B.</b> The clinical findings in this patient are
bilateral headache, diffuse myalgias, and diplopia. On examination she has substantially diminished vision in her left eye, but no other neurologic findings. A moderately tender, cordlike structure is palpable just anterior to her ear and extending up to her lateral scalp. Blood tests show a markedly elevated erythrocyte sedimentation rate. Which one of the following would be most appropriate at this point? A) Clopidogrel (Plavix) B) High-dose corticosteroids C) NSAIDs D) Dipyridamole/aspirin (Aggrenox)	consistent with temporal arteritis: age over 50, new-onset headache, abnormalities of the temporal artery, and an elevated erythrocyte sedimentation rate. A temporal artery biopsy is needed to confirm the diagnosis, but when the findings are this compelling, corticosteroids should be started even before a biopsy, to prevent further vision loss. Temporal arteritis is the most common clinical pattern of giant cell arteritis, which can also involve other branches of the carotid artery.
<ul> <li>08-073. +Mus+Adm. Which one of the following is true regarding temporomandibular joint disorder?</li> <li>A) Dental splints are the treatment of choice</li> <li>B) Mandibular "clicking" is an essential diagnostic element</li> <li>C) Ultrasonic phonophoresis with cortisone is the treatment of choice</li> <li>D) The majority of cases resolve without treatment</li> <li>E) MRI is preferred over CT to confirm the diagnosis</li> </ul>	Temporomandibular joint (TMJ) disorders. <b>08-073.</b> Temporomandibular joint (TMJ) disorders occur in a large number of adults. <b>ANS=D.</b> The etiology is varied, but includes dental malocclusion, bruxism (teeth grinding), anxiety, stress disorders, and, rarely, rheumatoid arthritis. Dental occlusion problems, once thought to be the primary etiology, are not more common in persons with TMJ disorder. While dental splints have been commonly recommended, the evidence for and against their use is insufficient to make a recommendation either way. Physical therapy modalities such as iontophoresis or phonophoresis may benefit some patients, but there is no clearly preferred treatment. Radiologic imaging is unnecessary in the vast majority of patients, and should therefore be reserved for chronic or severe cases. In fact, the majority of patients with TMJ disorders have spontaneous resolution of symptoms, so noninvasive symptomatic treatments and "tincture of time" are the best approach for most.
<b>09-196.</b> +Rem+Euc. The test of choice for immediate evaluation of an acutely swollen scrotum is A) a pelvic radiograph B) radionuclide imaging C) color Doppler ultrasonography D) CT E) MRI	Testicles, scrotal mass. <b>09-196. ANS=C.</b> Any patient with a new scrotal mass should be evaluated immediately because of the risk of potential emergencies, such as testicular torsion, or of life-threatening diseases such as testicular carcinoma. Color Doppler ultrasonography is the test of choice for immediate evaluation of scrotal masses (SOR B) because it can be done quickly and has a high sensitivity (86%–88%) and specificity (90%–100%) for detecting testicular torsion, which is a surgical emergency. Radionuclide imaging is also accurate in diagnosing testicular torsion, but involves too much of a time delay to be useful. CT and MRI should be used only if ultrasonography is inconclusive or carcinoma is suspected, and are particularly useful for staging testicular tumors. Pelvic radiographs are not recommended for evaluation of scrotal masses.
<ul> <li>07-061. +End+Adm. A 67-year-old male presents with symptoms of decreased libido and erectile dysfunction. An evaluation reveals that he has primary testosterone deficiency, and you consider testosterone replacement therapy. Which one of the following is true regarding this therapy?</li> <li>A) Liver toxicity is common</li> <li>B) It decreases the rate of bone fractures</li> <li>C) The risk of prostate cancer is increased</li> <li>D) HDL cholesterol levels typically increase</li> <li>E) Erythrocytosis is a potential side effect</li> </ul>	Testosterone. 07-061. When testosterone is taken at usual physiologic doses, liver toxicity is unusual. ANS=E. Testosterone replacement therapy may stop bone loss and increase bone density, but many studies have been equivocal, and none have reported a decreased rate of fractures. Although prostate cancer is thought to be stimulated by testosterone, no studies have shown convincing evidence of an increased risk of prostate cancer associated with testosterone therapy. Studies indicate that testosterone therapy either has no effect on HDL cholesterol or reduces HDL cholesterol levels. Testosterone stimulates erythropoiesis in 3%–18% of men receiving testosterone therapy. Since polycythemia is a potential issue, hemoglobin levels should be monitored.
<ul> <li>08-113. +End+Adm. Which one of the following is associated with testosterone supplementation in men with hypogonadism?</li> <li>A) Muscle wasting</li> <li>B) Polycythemia</li> <li>C) Osteoporosis</li> <li>D) An increased risk of benign prostatic hypertrophy</li> </ul>	Testosterone. <b>08-113.</b> Testosterone increases hematocrit and can cause polycythemia. <b>ANS=B.</b> In patients receiving testosterone supplementation, hematocrit should be monitored every 6 months for the first 18 months, then annually. Testosterone should be discontinued if there is more than a 50% rise in hematocrit. Testosterone also causes an increase in lean body mass, and may increase bone density.
<b>08-136.</b> +Hem+Adm. A 31-year-old healthy female is admitted to the hospital from the emergency department after presenting with aching in her right shoulder and swelling in the ipsilateral forearm and hand. The only precipitating event that she can recall is digging strenuously in the back yard to put in a new garden. Ultrasonography is remarkable for a thrombus in the axillosubclavian vein. She Copyrighted Material. ITE Personal Notes. Not for Sale. Page 156 of 170	Thromboembolism. <b>08-136.</b> Thrombosis of the upper extremity accounts for about 10% of all venous thromboembolism (VTE) cases. <b>ANS=B.</b> However, axillosubclavian vein thrombosis (ASVT) is becoming more frequent with the increased use of indwelling subclavian vein catheters. <u>Spontaneous ASVT (not</u> <u>catheter related) is seen most commonly in young, healthy individuals. The</u> Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
Mario's ITE database V2010:007 has no prior history of clotting, takes no medications, and has no previous history of medical or surgical procedures involving this extremity. The most likely etiology for this patient's condition is A) a hypercoagulable state B) a compressive anomaly in the thoracic outlet C) use of injection drugs D) Budd-Chiari syndrome	<ul> <li>most common associated etiologic factor is the presence of a compressive anomaly in the thoracic outlet. These anomalies are often bilateral, and the other upper extremity at similar risk for thrombosis. While a hypercoagulable state also may contribute to the thrombosis, it is much less common. Budd-Chiari syndrome refers to thrombosis in the intrahepatic, suprahepatic, or hepatic yeins. It is not commonly associated with spontaneous upper-extremity thrombosis.</li> <li>Epocrates: International expert panels have agreed that "Budd-Chiari syndrome" should be used as an eponym for "hepatic venous outflow tract obstruction", independent of the level or mechanism of obstruction. Asymptomatic: 1st anticoagulation Asymptomatic patients require anticoagulation as underlying prothrombotic states are often present, unless there are contraindications.</li> <li>Use low molecular weight heparin or heparin (in the absence of known allergy). Shift to oral anticoagulation targeting an INR of 2-3 as soon as possible.</li> <li>Warfarin is started on the same day as heparin unless there is a very high risk for bleeding or active bleeding.</li> <li>Recent improvements in the prognosis of BCS have been seen with generalized use of anticoagulation.</li> <li>Primary Options: enoxaparin : 40 mg subcutaneously once daily or dalteparin : 5000 units subcutaneously once daily AND warfarin : 2-5 mg orally once daily for 2-5 days initially, adjust dose according to target INR of 2-3. OR</li> <li>heparin : 5000 units subcutaneously every 8-12 hours and warfarin : 2-5 mg orally once daily for 2-5 days initially, adjust dose according to target INR of 2-3.</li> </ul>
<b>09-124.</b> +Car+Adm. Risk factors for venous thromboembolism include which one of the following? A) Anemia B) The use of oral ypoglycemic agents C) Being underweight D) Young age E) Spinal cord injury	<ul> <li>* adjunct specific treatment of predisposing thrombophilia Treatment of the underlying predisposing thrombophilic condition should be treated as per standard care, for example, hydroxyurea and aspirin in myeloproliferative disease. A specific treatment with eculizumab has been shown to reduce the incidence of hemolytic and thrombotic episodes in paroxysmal nocturnal hemoglobinuria.</li> <li>Thromboembolism. 09-124. ANS=E. There are many risk factors for thromboembolism, including polycythemia vera, oral contraceptive use, obesity, advanced age, and spinal cord injury. Spinal cord injury induces immobility, as do obesity and advanced age. Oral contraceptives make blood more coagulable, particularly in patients with clotting factor abnormalities such as factor V Leiden. Polycythemia vera increases sludging of blood cells and increases the risk of forming clots. Clot risk is not increased by oral hypoglycemic agents, low BMI, youth, or anemia.</li> </ul>
<ul> <li>07-227. +Mus+Adm. Which one of the following is the most accurate and cost-effective screening procedure for thyroid disease in geriatric patients?</li> <li>A) Serum T3</li> <li>B) Serum free T4</li> <li>C) Radioactive iodine (RAIU) uptake</li> <li>D) Serum TSH</li> <li>E) Radioallergosorbent test (RAST)</li> </ul>	Thyroid disease. <b>07-227.</b> Geriatric patients. <b>ANS=D.</b> Physicians should consider periodic screening for biochemical abnormalities in elderly patients, because a clinical presentation of thyroid disease is not reliable in this age group. The most effective way to screen for thyroid dysfunction is to order a TSH level with third-generation assays using an immunoradiometric assay (IRMA). The RAST test is used for allergy testing. Notably, the American College of Physicians recommends periodic screening only for women age 50 and older. Other organizations have varying guidelines.
<b>07-170.</b> +End+Euc. A 60-year-old white female is in the intensive-care unit for respiratory failure secondary to community-acquired pneumonia. She smokes 2 packs of cigarettes per day, but has no other significant medical or personal history. A medical student is making rounds with you and asks if the patient's thyroid function should be tested. Which one of the following is true regarding thyroid testing in this situation? A) Most patients who are critically ill should be tested for occult hypothyroidism B) Serum TSH is a good screening test for thyroid disease in critically ill patients C) A low TSH level in this patient would indicate hyperthyroidism D) A low T4 level is a frequent finding in patients hospitalized in the intensive-care unit E) A low T3 level should be treated with thyroid replacement in hospitalized critically ill patients	Thyroid function test. <b>07-170. ANS=D.</b> Many patients hospitalized with nonthyroid illness in the intensive care unit have abnormalities on thyroid testing. Low serum concentrations of both thyroxine (T4) and triiodothyronine (T3) are common, and TSH may be decreased as well. Thyroid function should not be assessed in seriously ill patients unless a thyroid problem is strongly suspected. Measurement of serum TSH alone is inadequate for the evaluation of thyroid function in critically ill patients.
<ul> <li>10-086. +End+Adm.* A 62-year-old male is admitted to the hospital for urosepsis. His medical history is significant only for hypertension. On examination he has a temperature of 36.5°C (97.7°F), a TSH level of 0.2 uU/mL (N 0.4–5.0), and a free T4 level of 0.4 ng/dL (N 0.6–1.5). Which one of the following is the most likely explanation for these findings?</li> <li>A) Pituitary adenoma</li> <li>B) Graves' disease</li> <li>C) Subacute thyroiditis</li> <li>D) Subclinical hypothyroidism</li> <li>E) Euthyroid sick syndrome</li> </ul>	Thyroid function test. <b>10-086.</b> Euthyroid sick syndrome. <b>ANS=E.</b> The euthyroid sick syndrome refers to alterations in thyroid function tests seen frequently in hospitalized patients, and decreased thyroid function tests may be seen early in sepsis. These changes are statistically much more likely to be secondary to the euthyroid sick syndrome than to unrecognized pituitary or hypothalamic disease (SOR C). Graves' disease generally is a hyperthyroid condition associated with low TSH and elevated free T4. Subclinical hypothyroidism is diagnosed by high TSH and normal free T4 levels. Subacute thyroidits most often is a hyperthyroid condition.
08-014. +End+Adm. A 45-year-old white male undergoes a health screening at his church. He has a carotid Doppler study, abdominal ultrasonography, heel densitometry, and a multiphasic blood panel. He receives a report indicating that all of the studies are normal, but a 0.7-cm thyroid nodule was noted. The TSH level is normal. He schedules a visit with you and brings you the report. A neck examination and ENT examination are normal, and you do not detect a nodule. You recommend Copyrighted Material. ITE Personal Notes. Not for Sale. Page 157 of 170	Thyroid nodule. <b>08-014. ANS=C.</b> This is a classic incidentaloma. Nodules are detected in up to 50% of thyroid sonograms and carry a low risk of malignancy (<5%). If the TSH level is normal, nuclear scanning and further thyroid studies are not necessary. Nodules smaller than 1 cm are difficult to biopsy and thyroid surgery is not indicated for what is almost certainly benign disease. It is reasonable to follow small nodules with clinical examinations and periodic sonograms.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
A) a radionuclide thyroid scan	
B) T3, T4, and calcitonin levels C) repeat ultrasonography in 6–12 months	
D) a fine-needle biopsy	
E) hemithyroidectomy	
<ul> <li>10-183. +End+Adm. A 42-year-old female is found to have a thyroid nodule during her annual physical examination. Her TSH level is normal.</li> <li>Ultrasonography of her thyroid gland shows a solitary nodule measuring 1.2 cm.</li> <li>Which one of the following would be most appropriate at this point?</li> <li>A) A radionuclide thyroid scan</li> <li>B) A fine-needle aspiration biopsy of the nodule</li> <li>C) Partial thyroidectomy</li> <li>D) Total thyroidectomy</li> <li>E) Reassurance</li> </ul>	Thyroid nodule. <b>10-183. ANS=B.</b> All patients who are found to have a thyroid nodule on a physical examination should have their TSH measured. Patients with a suppressed TSH should be evaluated with a radionuclide thyroid scan; nodules that are "hot" (show increased isotope uptake) are almost never malignant and fine-needle aspiration biopsy is not needed. For all other nodules, the next step in the workup is a fine-needle aspiration biopsy to determine whether the lesion is malignant (SOR B).
<b>07-036.</b> +End+Adm. A 45-year-old Hispanic female presents with diffuse, tender	Thyroiditis. 07-036. Subacute granulomatous thyroiditis is the most common
<ul> <li>a void in her interior neck. These symptoms were preceded by a prodrome of sore throat, low-grade fever, myalgias, and fatigue. On examination she has a tender, enlarged thyroid gland. Laboratory tests reveal 4 elevated free T and low TSH. Which one of the following is indicated at this time to determine appropriate treatment?</li> <li>A) Fine-needle aspiration of the thyroid gland</li> <li>B) Radioactive iodine uptake (RAIU) at 24 hours</li> <li>C) Immediate initiation of oral prednisone, 40–60 mg/day</li> <li>D) Antibiotics that cover <i>Streptococcus pyogenes</i>, <i>Streptococcus aureus</i>, and <i>Streptococcus pneumoniae</i></li> <li>E) A CT scan of the neck</li> </ul>	cause of thyroid pain. <b>ANS=B.</b> It is four times more common in women, most often occurs at 40–50 years of age, and is usually attributed to a viral infection. Symptoms and signs of this disorder include a prodrome of myalgias, pharyngitis, low-grade fever, and fatigue, followed by a tender, diffuse goiter and neck pain that often radiates up to the ear. Hyperthyroidism is seen in half of affected individuals, and must be differentiated from that found with Graves' disease to determine appropriate treatment. In patients with subacute thyroiditis the RAIU at 24 hours is low (<5%), whereas in those with Graves' disease it is elevated. Treatment consists of relieving the thyroid pain and tenderness with NSAIDs. If no improvement occurs in a week, prednisone may be given in a dosage of 40–60 mg/day, tapered off over 4–6 weeks. Suppurative thyroiditis is an extremely rare form of thyroid gland. Predisposing factors include congenital abnormalities such as persistent thyroglossal duct or piriform sinus fistula, greater age, and immunosuppression. Patients commonly present with acute unilateral anterior neck pain and erythema of the skin overlying an exquisitely tender thyroid. Fever, dysphagia, and dysphonia are also present. Thyroid function most often is normal, but hyper- or hypothyroidism may be present. The erythrocyte sedimentation rate is elevated, and the WBC count shows a marked increase with a left shift. Fine-needle aspiration with a Gram stain and culture is the most useful diagnostic test.
<b>07-159.</b> +End+Cfp+Mac. A 28-year-old female presents 2 weeks post partum complaining of palpitations, diarrhea, weight loss, and being "jumpy." Her examination is normal except for a slightly enlarged and tender thyroid gland. Her TSH level is 0.02 :U/mL (N 0.5–5.5), with a higher than normal level of free T3. Which one of the following would be the most appropriate treatment? A) Levothyroxine (Synthroid) B) Prednisone C) Propranolol (Inderal) D) Propylthiouracil E) Radioactive iodine	Thyroiditis. <b>07-159.</b> Postpartum. <b>ANS=C.</b> This patient presents with signs, symptoms, and laboratory evidence of postpartum thyroiditis. This is an autoimmune attack of the thyroid gland that occurs in 5%–10% of all mothers within a year of delivery. The transient increase of thyroid hormone that results is often unnoticed but can cause clinical hyperthyroidism. A B-blocker is recommended to reduce heart irregularities and other symptoms related to high levels of circulating thyroid hormone. Propylthiouracil prevents the production of new thyroid hormone and is not indicated because this condition results only in a release of thyroid hormone that has already been created. Up to one-third of women with this condition will become chronically hypothyroid and will require regular thyroid replacement. This patient is not currently hypothyroid, so she would not benefit from replacement with levothyroxine.
<b>09-141.</b> +End+Adm. A 45-year-old female had myalgias, a sore throat, and a fever 2 weeks ago. She now has anterior neck tenderness and swelling, with pain radiating up to her ears. An examination reveals a tender goiter. Which one of the following would support a diagnosis of subacute granulomatous thyroiditis? A) Pretibial myxedema B) Exophthalmos C) A thyroid bruit D) Low radioactive iodine uptake (<5%)	Thyroiditis. <b>09-141.</b> Subacute granulomatous thyroiditis is the most common cause of thyroid pain. <b>ANS=D.</b> Free T4 is elevated early in the disease, as it is in Graves' disease; however, later in the disease T4 becomes depressed and then returns to normal as the disease resolves. Pretibial myxedema, exophthalmos, and a thyroid thrill or bruit can all be found in Graves' disease, but not in subacute granulomatous thyroiditis. Patients with subacute granulomatous thyroiditis will have a low radioactive iodine uptake (RAIU) at 24 hours, but patients with Graves' disease will have an elevated RAIU (SOR C).
<ul> <li>10-079. +End+Adm.?* A 42-year-old male presents with anterior neck pain. His thyroid gland is markedly tender on examination, but there is no overlying erythema. He also has a bilateral hand tremor. His erythrocyte sedimentation rate is 82 mm/hr (N 1–13) and his WBC count is 11,500/mm3 (N 4300–10,800). His free T4 is elevated, TSH is suppressed, and radioactive iodine uptake is abnormally low. Which one of the following treatment options would be most helpful at this time?</li> <li>A) Levothyroxine (Synthroid) and NSAIDs</li> <li>B) Propylthiouracil</li> <li>C) Prednisone</li> <li>D) Nafcillin</li> <li>E) Thyroidectomy</li> </ul>	Thyroiditis. <b>10-079.</b> Painful subacute. <b>ANS=C.</b> This patient has signs and symptoms of painful subacute thyroiditis, including a painful thyroid gland, hypothyroidism, and an elevated erythrocyte sedimentation rate. It is unclear whether there is a viral etiology to this self-limited disorder. Thyroid function returns to normal in most patients after several weeks, and may be followed by a temporary hypothyroid state. Treatment is symptomatic. Although NSAIDs can be helpful for mild pain, high-dose glucocorticoids provide quicker relief for the more severe symptoms. Levothyroxine is not indicated in this hyperthyroid state. Neither thyroidectomy nor antibiotics is indicated for this problem.
<b>07-139.</b> +Int+Adm. A 25-year-old female presents to your office with a tick embedded in the skin on her abdomen. It was likely acquired the previous evening when she was hiking in the woods near her home. She is currently asymptomatic. Appropriate management at this point would be to A) apply a hot match to the body of the tick B) cover the tick with petroleum jelly C) remove the tick with blunt angled forceps D) use topical lidocaine on the site E) prescribe a 3-week course of doxycycline Copyrighted Material. ITE Personal Notes. Not for Sale. Page 158 of 170	Tick-borne illnesses. <b>07-139.</b> Tick-borne illnesses may be prevented by removal of the parasite within 24–48 hours after attachment to the host. <b>ANS=C.</b> Blunt, medium-tipped, angled forceps or commercially available devices (but not tweezers) should be used. The tick should be grasped gently and vertical traction applied until it dislodges. Using improper technique can leave a portion of the tick behind, resulting in infection or granuloma formation. Other methods, such as applying a hot match to the tick, applying or injecting lidocaine, or passing a Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	needle through the tick, are not recommended. If no symptoms follow the tick
00 042 Tett Adam Williah and State Sellending dein in Services about diside the ba	bite, antibiotic therapy is not recommended.
<b>08-043.</b> +Int+Adm. Which one of the following skin infections should initially be treated with oral antifungal therapy?	Tinea. <b>08-043.</b> Corporis. <b>ANS=A.</b> Most tinea infections respond to topical therapy, but oral therapy is required for tinea capitis so that the drug will penetrate
A) Tinea capitis	the hair shafts (SOR B). Tinea corporis may require oral therapy in severe cases,
B) Tinea corporis	but usually responds to topical therapy (SOR A). Oral therapy has a higher
C) Tinea cruris	likelihood of side effects. Erythrasma and mycosis fungoides are not fungal
D) Erythrasma	diseases.
E) Mycosis fungoides	
<b>08-032.</b> +Sen+Euc. A 35-year-old male with a toothache presents to a local clinic for uninsured patients. On examination you find a decayed left lower molar that is tender when tapped lightly, and surrounding gingival inflammation and tenderness. There is no obvious mandibular swelling, but he does have a tender	Toothache. <b>08-032.</b> Anaerobic oral bacteria treatment. <b>ANS=C.</b> This patient most likely has periodontitis of the tooth's roots with cellulitis, complicated by an apical abscess. This infection is caused by anaerobic oral bacteria. Clindamycin or amoxicillin /clavulanate is preferred for antibiotic treatment. Doxycycline,
submandibular lymph node. The earliest available dental appointment is in 1 week. He has no allergies to medications. Which one of the following would be the best antibiotic treatment for this patient?	trimethoprim /sulfamethoxazole, ciprofloxacin, and cephalexin have limited effectiveness against anaerobes and would not be indicated.
<ul><li>A) Doxycycline</li><li>B) Trimethoprim/sulfamethoxazole (Bactrim, Septra)</li></ul>	
C) Clindamycin (Cleocin)	
D) Ciprofloxacin (Cipro) E) Cephalexin (Keflex)	
<b>07-053.</b> +Car+Euc. Which one of the following can be used to treat torsades de	Torsades de pointes. 07-053. Torsades de pointes, a special form of ventricular
pointes? A) Atropine B) Procainamide (Procanbid, Pronestyl) C) Magnesium D) Disopyramide (Norpace) E) Quinidine	tachycardia (VT), causes a gradual alteration in the amplitude and direction of electrical activity. <b>ANS=C.</b> <u>Torsades requires different treatment than the</u> other VTs. Recent reports have demonstrated that magnesium sulfate can
	effectively abolish runs of torsades de pointes. Quinidine and other drugs that prolong repolarization (procainamide, phenothiazines, tricyclic antidepressants, discourse they can expect to treades. At prime
	disopyramide) are contraindicated because they can exacerbate torsades. Atropine is indicated for treatment of symptomatic bradycardia.
10-002. +Car+Euc. Intravenous magnesium is used to correct which one of the	Torsades de pointes. <b>10-002.</b> ANS=E. A well-known use of intravenous
following arrhythmias?	magnesium is for correcting the uncommon ventricular tachycardia of torsades de
A) Wenckebach second-degree heart block	pointes. Results of a meta-analysis suggest that 1.2-10.0 g of intravenous
B) Complete heart block	magnesium sulfate also is a safe and effective strategy for the acute management
C) Idioventricular rhythm	of rapid atrial fibrillation.
<ul><li>D) Reentrant supraventricular tachycardia</li><li>E) Ventricular tachycardia of torsades de pointes</li></ul>	
<b>09-032.</b> +Non+Mac. A 26-year-old gravida 1 para 0 presents for a prenatal	Toxoplasmosis. 09-032. ANS=A. There is no immunization against it, and the
examination. She has two cats and expresses concern about toxoplasmosis. Which	use of antibiotics is limited to cases in which there is known maternal
one of the following would be most appropriate for this patient? A) Recommend	infection with the protozoa. Screening pregnant women for seroconversion (not
that she avoid directly handling the cats' litter box B) Immunize the patient	with urine antigen testing) is controversial, and recommendations by various
against toxoplasmosis C) Prophylactically treat the cats with antibiotics D) Screen the actions's using for Toxoplasma antigans E) Screen the patient's screen for	professional groups differ. Currently, the <u>American College of Obstetrics and</u> Gynecology does not recommend routine screening except in patients who
the patient's urine for <i>Toxoplasma</i> antigens E) Screen the patient's serum for <i>Toxoplasma</i> antibody	are known to be HIV positive. However, because the infection is thought to be
Note: <u>Tx option (UpToDate): 3 wk course of pyrimethamine (50 mg qd PO or 25</u>	passed primarily from undercooked meat or through infected animal feces, it is
mg bid) and sulfadiazine (3 g/day PO divided into 2 to 3 doses), alternating with a three-week course of spiramycin (1 g PO tid) until delivery.	universally recommended that pregnant women avoid direct contact with cats' litter boxes. If avoidance is not possible, wearing gloves when handling a litter
	box is recommended.
<b>09-139.</b> +Res+Adm. The preferred site for an emergency airway is	Tracheotomy. 09-139. Emergency. ANS=B. Fortunately, emergency tracheotomy
A) the thyrohyoid membrane	is not often necessary, but should one be necessary the best site for the incision is
B) the cricothyroid membrane C) immediately below the cricoid cartilage	directly above the cricoid cartilage, through the cricothyroid membrane. Strictly speaking, this is not a tracheotomy, because it is actually above the trachea.
D) through the first and second tracheal rings	However, it is below the vocal cords and bypasses any laryngeal obstruction. The
E) at the level of the thyroid isthmus	thyrohyoid membrane lies well above the vocal cords, making this an impractical
	site. The area directly below the cricoid cartilage—which includes the second,
	third, and fourth tracheal rings, as well as the thyroid isthmus—is the preferred
	tracheotomy site under controlled circumstances, but excessive bleeding and
	difficulty finding the trachea may significantly impede the procedure in an
<b>10-140P.</b> +Gas+Com.>L?* A 47-year-old male is preparing for a 3-day trip to	emergency. Traveler, prophylaxis. <b>10-140P. ANS=B.</b> While prophylactic antibiotics are not
central Mexico to present the keynote address for an international law symposium.	generally recommended for prevention of traveler's diarrhea, they may be useful
He asks you for an antibiotic to be taken prophylactically to prevent bacterial	under special circumstances for certain high-risk hosts, such as the
diarrhea.	immunocompromised, or for those embarking on critical short trips for which
Which one of the following would you recommend?	even a short period of diarrhea might cause undue hardship. Rifaximin, a
A) Trimethoprim/sulfamethoxazole (Bactrim, Septra)	nonabsorbable antibiotic, has been shown to reduce the risk for traveler's
B) Rifaximin (Xifaxan)	diarrhea by 77%. Trimethoprim/sulfamethoxazole and doxycycline are no
C) Doxycycline D) Ciprofloxacin (Cipro)	<b>longer considered effective antimicrobial agents against enteric bacterial</b> <b>pathogens.</b> Increasing resistance to the fluoroquinolones, especially among
2) enteriormeni (entro)	<i>Campylobacter</i> species, is limiting their use as prophylactic agents.
09-134. +Neu+Adm. Which one of the following is most likely to be of benefit in	Tremor, essential. <b>09-134. ANS=C.</b> Treatments likely to be beneficial for
patients with essential tremor of the hand?	essential tremor of the hands include propranolol and topiramate. Topiramate has
A) Isoniazid	been shown to improve tremor scores after 2 weeks of treatment, but is associated
B) Diazepam (Valium)	with appetite suppression, weight loss, and paresthesias. ANS=C. Medications
C) Topiramate (Topamax)	with unknown effectiveness include benzodiazepines, b-blockers other than
D) Clonidine (Catapres) E) Gabapentin (Neurontin)	propranolol, calcium channel blockers, clonidine, gabapentin, and isoniazid.
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 159 of 170	Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>07-048. +Res+Com+Adm. A 36-year-old male who recently immigrated from Rwanda presents with a several-month history of cough accompanied by hemoptysis and weight loss. He is afebrile, and a lung examination is normal. A chest radiograph shows a cavitary lesion in his left upper lobe. He is admitted to the hospital and placed in respiratory isolation. A tuberculin test is positive, but three induced sputum smears are negative for acid-fast bacillus. Cultures are still pending. Which one of the following INITIAL treatment regimens is most appropriate?</li> <li>A) No treatment until culture results are available</li> <li>B) Isoniazid for 9 months</li> <li>C) Rifampin and pyrazinamide for 8 weeks</li> <li>D) Rifampin, isoniazid, ethambutol, and pyrazinamide for 8 weeks</li> </ul>	Tuberculosis. <b>07-048.</b> INITIAL treatment regimens. <b>ANS=E.</b> Nearly one third of the world's population is infected with <i>Mycobacterium tuberculosis</i> . The highest per capita incidence occurs in sub-Saharan Africa. Although a positive acid-fast bacillus smear or culture for <i>M. tuberculosis</i> is needed to confirm active disease, treatment should begin without delay in patients for whom the clinical suspicion is high, as in this case. Because of relatively high rates of resistance to isoniazid, four drugs are necessary in the initial phase to be maximally effective. Thus, the initial treatment regimen for all adults with previously untreated tuberculosis should consist of 8 weeks of therapy with rifampin, isoniazid, ethambutol, and pyrazinamide. Most patients will require an 18-week continuation phase after initiation. If the likelihood of active tuberculosis is low, treatment can be deferred until the results of mycobacterial cultures are known. In low-risk patients who are not initially treated, one of the other treatment regimens for latent tuberculosis is acceptable if cultures are negative, a tuberculin skin test is positive, and a chest radiograph is unchanged after 2 months. However, the 8-week regimen of rifampin and pyrazinamide should be used only in patients who are not likely to complete a longer course of therapy and who can be monitored closely because of an increased risk of hepatotoxicity.
<ul> <li>07-228. +Non+Adm. A 26-year-old female nurse has had recent contact with patients with AIDS and tuberculosis (TB), and now has a positive tuberculin skin test. Her test was negative a year ago. She has no other medical complaints. Testing to exclude which one of the following is most important before starting latent TB therapy with isoniazid (INH)?</li> <li>A) Active TB</li> <li>B) Previous hepatitis</li> <li>C) Diabetes mellitus</li> <li>D) Neuropathy</li> <li>E) Pregnancy</li> </ul>	Tuberculosis. 07-228. Active TB. ANS=A. It is <u>essential to exclude active</u> <u>tuberculosis infection through a screening chest radiograph before instituting</u> <u>therapy for latent tuberculosis. Failure to do so increases the risk of</u> <u>developing drug resistance</u> . Patients who have had hepatitis in the past require monitoring of liver function but can usually be treated. Diabetics, who have a higher risk of developing tuberculosis, should be treated. Pyridoxine (vitamin B6) is often given to patients with neuropathy. Pregnancy is not a contraindication for INH prophylaxis when there is documentation of a valid indication such as conversion to a positive PPD within the past 2 years. <u>In addition to INH,</u> <u>pregnant patients should be treated with pyridoxine. In otherwise healthy</u> <u>individuals, pyridoxine supplementation is unnecessary.</u>
<b>Epocrates:</b> no comorbidity nonpregnant: induction therapy: Expert consultation is obtained. Antituberculous therapy is initiated based on clinical suspicion after optimal diagnostic samplings. While awaiting that information, an expanded empiric regimen may be used. The final regimen will be based on the results of drug-susceptibility testing. Single new drugs are not added to a failing regimen and intermittent therapy is not an option. All medications should be administered together. Induction therapy should continue for 2 months, with the ultimate duration to be determined on the basis of eventual drug susceptibilities and expert consultation. If drug resistance is suspected, additional antibiotics should be used.Primary Options: isoniazid : 5 mg/kg orally once daily, maximum 300 mg/day and rifampin : 10 mg/kg orally once daily, maximum 600 mg/day and pyrazinamide : body weight 40-55kg: 1000 mg orally once daily; body weight 56-75kg: 1500 mg orally once daily; body weight 76-90kg: 2000 mg orally once daily and ethambutol : body weight 40-55kg: 800 mg orally once daily; body weight 56-75kg: 1200 mg orally once daily; body weight 76-90kg: 1600 mg orally once daily	-Additional antibiotics may be given in cases of suspected drug resistance, especially if the patient is seriously ill. Drug resistance in newly diagnosed TB may be suspected in patients who have previously been treated with antituberculous drugs (especially if that treatment was intermittent) or on the basis of previous contact with a known drug-resistant case or of living in an area where drug resistance is common. Primary Options: moxifloxacin : 400 mg orally/intravenously once daily or levofloxacin : 500-1000 mg orally/intravenously once daily AND capreomycin: 15 mg/kg intramuscularly/intravenously once daily, maximum 1000 mg/day or amikacin : 15 mg/kg intramuscularly/intravenously once daily, maximum 1000 mg/day or kanamycin : 15 mg/kg intramuscularly/intravenously once daily, maximum 1000 mg/day -adjunct pyridoxine Patients at risk of neuropathy (including HIV-positive patients, those with diabetes mellitus, malnourished patients, and those who abuse alcohol) should receive pyridoxine as an adjunct to isoniazid. Primary Options: pyridoxine : 25-50 mg orally once daily - <u>Adjunctive corticosteroid therapy</u> is used for TB meningitis and pericarditis. It has been shown to reduce mortality, especially in patients with a decreased level of consciousness. Dexamethasone is preferred in meningitis, while prednisone is preferred in pericarditis. The CDC recommends that the initial dose of dexamethasone is given for 3 weeks and then decreased gradually during the following 3 weeks, and that the initial dose of prednisone is given for 4 weeks and then decreased gradually over 7 weeks. Primary Options: dexamethasone : children <25 kg: 8 mg/day orally for 3 weeks, then taper gradually; children >25 kg and adults: 12 mg/day orally for 3 weeks, then taper gradually prednisone : 60 mg/day orally for 4 weeks, then taper gradually over 7 weeks
<ul> <li>09-068. +Res+Adm. A healthy 48-year-old bookkeeper who works in a medical office has a positive PPD on routine yearly screening. Which one of the following would be most appropriate at this point?</li> <li>A) A chest radiograph</li> <li>B) A repeat PPD</li> <li>C) Treatment with isoniazid and one other antituberculous drug for 12 months</li> <li>D) Anergy testing</li> <li>10-028. +Non+Adm.?* (This was deleted and excluded from scoring for</li> </ul>	Tuberculosis. <b>09-068.</b> PPD positive. <b>ANS=A.</b> Clinical evaluation and a chest radiograph are recommended in asymptomatic patients with a positive PPD (SOR C). A two-step PPD is performed on those at high risk whose initial test is negative. Asymptomatic patients with a positive PPD and an abnormal chest film should have a sputum culture for TB, but a culture is not required if the chest film is negative. Persons with a PPD conversion should be encouraged to take INH for 9 months with proper medical supervision. Patients with a negative PPD who are still at high risk for TB, especially HIV-positive patients, could be evaluated for anergy, but it is not recommended at this time.
<b>content reasons</b> ) A 40-year-old male who recently immigrated from central Africa presents to a public health clinic where you are working. He was referred by a physician in the local emergency department, who made a diagnosis of type 2 diabetes mellitus. The patient has no history of fever or night sweats, weight loss, or cough. He does have a history of receiving bacilli Calmette-Guérin (BCG) Copyrighted Material. ITE Personal Notes. Not for Sale. Page 160 of 170	reasons) ANS=C. In vitro interferon-gamma release assays (IGRAs) are a new way of screening for latent tuberculosis infection. Currently, the QuantiFERON- TB Gold test is the only IGRA approved by the FDA. One of the advantages of IGRA is that it targets antigens specific to <i>Mycobacterium tuberculosis</i> . These proteins are absent from the BCG vaccine strains and from commonly

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>vaccine in the past. Screening tests for HIV and hepatitis performed in the emergency department were negative. Which one of the following is true regarding screening for latent tuberculosis infection by in vitro interferon-gamma release assay (IGRA) compared to screening by the traditional targeted tuberculin skin test (TST) in this patient?</li> <li>A) Both tests require subjective interpretation</li> <li>B) BCG interferes with IGRA results</li> <li>C) IGRA differentiates <i>Mycobacterium tuberculosis</i> from nontuberculous mycobacteria</li> <li>D) IGRA results are valid if the sample is analyzed within 24 hours</li> </ul>	encountered nontuberculous mycobacteria. Unlike skin testing, the results of IGRA are objective. It is unnecessary for IGRA to be done in tandem with skin testing, and it eliminates the need for two-step testing in high-risk patients. IGRAs are labor intensive, however, and the blood sample must be received by a qualified laboratory and incubated with the test antigens within 12 hours of the time it was drawn.
<ul> <li>E) IGRA should be done in tandem with TST</li> <li>10-048. +Res+Adm.&gt;L* Which one of the following Mantoux tuberculin skin test results should be read as NEGATIVE for latent tuberculosis infection?</li> <li>A) 7 mm induration on an individual having recent household contact with a tuberculosis patient</li> <li>B) 8 mm induration on an HIV-positive individual who has no documented previous test result</li> <li>C) 10 mm induration on a nursing-home resident</li> <li>D) 12 mm induration on a homeless individual</li> <li>E) 9 mm induration on a hospital-based nurse who had a test with 2 mm induration 1 year ago</li> </ul>	Tuberculosis. <b>10-048.</b> Tuberculin skin test. <b>ANS=E.</b> Three different cutoff levels defining a positive reaction on a tuberculin skin test are recommended by the CDC, each based on the level of risk and consideration of immunocompetence. For those who are at highest risk and/or immunocompromised, including HIV-positive patients, transplant patients, and household contacts of a tuberculosis patient, an induration $\geq 5$ mm is considered positive. For those at low risk of exposure, a screening test is not recommended, but if one is performed, induration $\geq 15$ mm is considered positive. For those who have an increased probability of exposure or risk, an induration $\geq 10$ mm should be read as positive. This group includes children; employees or residents of nursing homes, correctional facilities, or homeless shelters; recent immigrants; intravenous drug users; hospital workers; and those with chronic illnesses. For individuals who are subject to repeated testing, such as health-care workers, an increase in induration of 10 mm or more within a 2-year period would be considered positive and an indication of a recent infection with <i>Mycobacterium tuberculosis</i> . A nurse with a 9-mm induration would be considered PD.
<ul> <li>10-154. +Res+Adm. A 51-year-old immigrant from Vietnam presents with a 3-week history of nocturnal fever, sweats, cough, and weight loss. A chest radiograph reveals a right upper lobe cavitary infiltrate. A PPD produces 17 mm of induration, and acid-fast bacilli are present on a smear of induced sputum. While awaiting formal laboratory identification of the bacterium, which one of the following would be most appropriate?</li> <li>A) Observation only</li> <li>B) INH only</li> <li>C) INH and ethambutol (Myambutol)</li> <li>D) INH, ethambutol, and pyrazinamide</li> <li>E) INH, ethambutol, rifampin (Rifadin), and pyrazinamide</li> </ul>	Tuberculosis. <b>10-154.</b> Suspected. <b>ANS=E.</b> Leading authorities, including experts from the American Thoracic Society, CDC, and Infectious Diseases Society of America, mandate aggressive initial four-drug treatment when tuberculosis is suspected. Delays in diagnosis and treatment not only increase the possibility of disease transmission, but also lead to higher morbidity and mortality. Standard regimens including INH, ethambutol, rifampin, and pyrazinamide are recommended, although one regimen does not include pyrazinamide but extends coverage with the other antibiotics. Treatment regimens can be modified once culture results are available.
<b>07-237.</b> +Car+Adm. An asymptomatic 41-year-old male is having a life insurance physical. He is reasonably active and has no chest pain or palpitations. An EKG, his first, is shown. There is no family history of vascular disease. He has never had any health problems other than a couple of sports-related injuries. His blood pressure is 118/60 mm Hg, height 178 cm (70 in), and weight 70 kg (154 lb). A chest radiograph is normal. Which one of the following would be most appropriate at this time? A) An exercise stress test B) Holter monitoring C) Electrophysiologic mapping D) Cardiac catheterization E) No further evaluation	Unifocal premature contractions. <b>07-237.</b> The EKG demonstrates unifocal premature contractions. <b>ANS=E. Prospective studies of large populations of ambulatory men <u>have not shown</u> increased mortality on long-term follow up. Regardless of the presence and persistence of ventricular ectopy, the patients have a prognosis no different than that of other healthy people, and above all, there is no increased risk of sudden death. In the absence of angina, a history of heart failure, cardiomegaly on a chest radiograph, left ventricular hypertrophy, bundle branch block, or hypertension, further diagnostic evaluation is unwarranted.</b>

""""	
<ul> <li>07-110. +Res+Adm. The most common cause of chronic cough in adults is</li> <li>A) gastroesophageal reflux disease</li> <li>B) asthma</li> <li>C) upper airway cough syndrome (postnasal drip)</li> <li>D) nonasthmatic eosinophilic bronchitis</li> <li>E) ACE inhibitor use</li> </ul>	Upper airway cough syndrome. 07-110. Causes of chronic cough in the adult patient are often somewhat obscure, as the onset may be vague and there are no consistently reliable defining characteristics. ANS=C. Further complicating this diagnostic challenge is the possibility that the cough may be due to multiple concurrent conditions that must each be addressed before the cough will resolve. Each of the options listed may cause chronic cough and must be considered. In order, the three most common causes of chronic cough are Upper airway cough syndrome (UACS), asthma, and gastroesophageal reflux disease. Nonasthmatic eosinophilic bronchitis is frequent enough to warrant consideration as well. Uptodate: Upper airway cough syndrome (UACS; previously known as postnasal drip syndrome but revised to include all upper airway abnormalities causing cough) has a number of different etiologies, including allergic, nonallergic, and vasomotor rhinitis, acute nasopharyngitis, and sinusitis [9]. When
<ul> <li>First generation antihistamines are preferred over second generation ones (eg, cetirizine, fexofenadine, loratadine) due to the stronger anticholinergic effect, but concern over the sedating effects may limit their use [9]. Improvement in the cough should lead to further evaluation for the cause of the rhinitis (eg, allergic, nonallergic, or rhinosinusitis) and optimization of the long-term treatment. Lack of improvement in cough after one to two weeks of empiric therapy for UACS is evidence that UACS is not the cause of the cough. However, in the presence of nasal symptoms or signs, a sinus CT scan should be performed before completely excluding the possibility of UACS as a cause of cough.</li> <li>A 2001 decision analysis provides support for the strategy of treating chronic cough empirically. Since the most common cause for chronic cough is UACS (with an assumed prevalence of 44%) due to rhinosinus conditions, an empiric trial of a first-generation antihistamine/decongestant is a reasonable option. Further treatment choices are based on the response to this regimen.</li> </ul>	an environmental precipitant for allergic rhinitis can be identified, exposure to this precipitant should be eliminated if at all possible.Practice parameters for the diagnosis and management of rhinitis have been published [10]. These guidelines describe high-quality evidence that intranasal glucocorticoids are the most effective therapy for symptoms of allergic rhinitis (table 1). In addition, intranasal glucocorticoids are effective for several types of nonallergic rhinitis, including nonallergic rhinitis with eosinophilia (NARES) and vasomotor rhinitis. For patients with cough due to allergic rhinitis, intranasal glucocorticoids are generally effective in reducing cough within the first few days, but may take up to two weeks to achieve maximal effect. If the patient responds, therapy is continued for approximately three months. Among patients without evidence for allergic rhinitis in whom nonallergic rhinitis may be more likely, our approach is to perform a diagnostic trial with an oral first generation antihistamine (eg, brompheniramine, clemastine) or a combined antihistamine-decongestant (eg, brompheniramine- pseudoephedrine) [1,4,11].
<b>07-089.</b> +Nep+Adm. A 50-year-old female presents with a history of small amounts of urine leakage with coughing, sneezing, and exercising over the past few months. She denies any nocturia, urinary urgency, or frequency. A urinalysis is normal. Of the following, the most effective treatment for this patient's problem would be A) Kegel exercises B) estrogen	Urinary incontinence. <b>07-089.</b> Stress. <b>ANS=A.</b> The symptoms presented describe stress incontinence. This condition is commonly confused with urge incontinence, which would be highly unlikely without accompanying urge, frequency, nocturia, and large amounts of urine leakage. <b>Urge incontinence may be treated with oxybutynin or tolterodine, but these are not effective for treating stress incontinence.</b> Estrogen was at one time touted as a therapy for this condition also, but now is not considered an effective treatment (level B evidence). Of the options

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
C) oxybutynin (Ditropan)	given, the only effective treatment for stress incontinence is Kegel exercises.
D) tolterodine (Detrol)	Other effective treatments include surgery and a pessary.
	Uptodate: Lower urinary tract causes — There are four major clinical types
	of urinary incontinence associated with lower urinary tract dysfunction: urge
	incontinence, stress incontinence, mixed incontinence, and "overflow
	incontinence."
	Unge incentinence. The sticleary of uncertainenty incentinence and the
	<u>Urge incontinence</u> — The etiology of urge urinary incontinence and the overactive bladder syndrome is <b>presumed to be uninhibited bladder</b>
	<u>contractive bladder</u> syndrome is <u>presumed to be unininitied bladder</u>
	however, may also be found in healthy, continent elderly individuals, suggesting
	that overactivity alone is not sufficient to cause incontinence [12]. Research
	suggests an important role of afferent sensory nerve pathways in the development
	of detrusor overactivity [13].
	Urge leakage symptoms may also be due to factors outside of the lower urinary
	tract. Failure of compensatory mechanisms in the lower urinary tract, and
	impairments in the functional requirements for continence may be important. In
	many cases, detrusor overactivity may be idiopathic. (See 'Incontinence related to
	reversible conditions' below and "Epidemiology, risk factors, and pathogenesis of
	urinary incontinence".)
	Urge urinary incontinence in younger women may be due to interstitial cystitis.
	This condition is <b>characterized by urgency and frequent voiding of small</b>
	amounts of urine, often with dysuria or pain; not all affected persons are incontinent [14]. Treatment is hampered by an incomplete understanding of its
	<b><u>incontinent</u></b> [14]. I reatment is nampered by an incomplete understanding of its pathophysiology. (See "Clinical features and diagnosis of painful bladder
	syndrome/interstitial cystitis" and "Treatment of painful bladder
Other associated symptoms may include weak urinary stream, dribbling,	syndrome/interstitial cystitis".)
intermittency, hesitancy, frequency, and nocturia. Stress-related leakage may be	syndrome, mersular eysters .)
apparent, reflecting an otherwise intact sphincter mechanism overwhelmed by the	Urge urinary incontinence in frail older persons frequently coexists with
large bladder volume.	impaired detrusor contractility, a condition termed detrusor hyperactivity
c	with impaired contractility (DHIC) [15]. DHIC is characterized by urgency and
Bladder outlet obstruction is uncommon in women, occurring in approximately 3	an elevated postvoid residual in the absence of outlet obstruction. DHIC can be
percent of a referral population of incontinent women [18].	misdiagnosed as stress urinary incontinence if the detrusor overactivity is
	triggered by a stress maneuver, or as outlet obstruction and detrusor weakness,
Obstruction in women may be caused by scarring from prior anti-incontinence	since it shares the same symptoms [16]. Patients with DHIC may be more prone
surgery or significant pelvic organ prolapse, when the prolapsed bladder or uterus	to urinary retention when bladder relaxants or other anticholinergic medications
kinks the urethra. Patients with suprasacral spinal cord injury can develop	are used, although clear evidence of this is lacking.
neurological obstruction from detrusor-sphincter dyssynergia, in which	
interruption of spinal pathways leads to sphincter contraction during bladder	Stress incontinence — Stress leakage occurs when increases in
contraction; these patients are at high risk for hydronephrosis.	intraabdominal pressure overcome sphincter closure mechanisms in the
Detrusor underactivity sufficient to cause overflow urinary incontinence and	<b><u>absence of a bladder contraction.</u></b> Stress urinary incontinence is the most common cause of urinary incontinence in younger women, second most common
urinary retention occurs in about 5 to 10 percent of older persons and is less	cause in older women [17]. Stress incontinence often coexists with urge
frequent in younger individuals [19]. Etiologies of detrusor underactivity include	incontinence in middle-aged and older women. (See 'Mixed incontinence' below.)
smooth muscle damage, fibrosis, low estrogen, aging, peripheral neuropathy (due	incontinence in middle aged and older women. (See Mixed meontinence below.)
to diabetes mellitus, vitamin B12 deficiency, Parkinson disease, alcoholism, tabes	Mixed incontinence — Mixed incontinence is the most common type of
dorsalis), and damage to the spinal detrusor efferents by disc herniation, spinal	urinary incontinence in women. Although generally thought to represent the
stenosis, tumor, or congenital abnormalities.	overlap of two mechanisms, detrusor overactivity and impaired urethral
	sphincter function, the precise pathophysiology of mixed urinary
"Detrusor hyperactivity with impaired contractility" (DHIC), representing	incontinence is still under investigation.
incontinence due to a combination of detrusor underactivity and overactivity, may	
occur in frail elderly persons [15].	Incomplete emptying (overflow incontinence) — "Overflow incontinence" is a
"Naurogania bladdar" is a nonemosific tarm used to refer to see differences. '	term used to describe the dribbling and/or continuous leakage associated with
"Neurogenic bladder" is a nonspecific term used to refer to conditions ranging from areflexic noncontractile bladder to detrusor overactivity; we prefer to avoid	incomplete bladder emptying, due to impaired detrusor contractility and/or bladder outlet obstruction. This term is felt to be confusing and lacks a precise
this terminology. Neurogenic lower urinary tract dysfunction can be diagnosed	definition. A preferred description is "incomplete bladder emptying" and
only in the presence of neurological pathology, and the type of dysfunction should	optimally should list the specific symptoms and any associated pathophysiology
be specified (figure 2) [20,21].	(such as bladder outlet obstruction) [1].
<b>08-017.</b> +Nep+Cfp. A 44-year-old female is distressed because of incontinence.	Urinary incontinence. <b>08-017.</b> Overactive bladder. Nonpharmacologic therapy is
She reports frequent episodes of an immediate need to urinate, which cannot	recommended for all patients with an overactive bladder. ANS=E. Pelvic floor
always be deferred. She admits to urinating more than 10 times a day, but denies	muscle training (e.g., Kegel exercises) and bladder training are proven
any urine leakage with coughing, laughing, or straining. Which one of the	effective in urge incontinence or overactive bladder, as well as in stress and
following is the most appropriate initial treatment for this patient?	mixed incontinence. In motivated patients, training may be more effective than
A) Solifenacin (Vesicare)	medications such as oxybutynin and newer muscarinic receptor antagonists such
B) Oxybutynin (Ditropan XL)	as solifenacin. Tamsulosin is used in benign prostatic hypertrophy and
C) Tamsulosin (Flomax)	phenazopyridine is a urinary tract anesthetic that has not been recommended for
	treating overactive bladder.
D) Phenazopyridine (Pyridium)	feating overactive bladder.
D) Phenazopyridine (Pyridium) E) Pelvic floor muscle training and bladder training	
<ul> <li>D) Phenazopyridine (Pyridium)</li> <li>E) Pelvic floor muscle training and bladder training</li> <li>09-024. +Nep+Cel. A 70-year-old white female complains of two episodes of</li> </ul>	Urinary incontinence. 09-024. In the neurologically intact individual the most
<ul> <li>D) Phenazopyridine (Pyridium)</li> <li>E) Pelvic floor muscle training and bladder training</li> <li>09-024. +Nep+Cel. A 70-year-old white female complains of two episodes of urinary incontinence. On both occasions she was unable to reach a bathroom in</li> </ul>	Urinary incontinence. 09-024. In the neurologically intact individual the most common subtypes are: stress incontinence, which occurs with coughing or
<ul> <li>D) Phenazopyridine (Pyridium)</li> <li>E) Pelvic floor muscle training and bladder training</li> <li>09-024. +Nep+Cel. A 70-year-old white female complains of two episodes of</li> </ul>	Urinary incontinence. 09-024. In the neurologically intact individual the most

Mario's ITE database V2010.007 incontinence B) stress incontinence C) urge incontinence D) functional	Document copy for the sole personal use of Dr. Mario Alberto Jimenez becomes overdistended. The term <i>functional incontinence</i> is applied to those
incontinence	cases where lower urinary tract function is intact but other factors such as immobility and severe cognitive impairment lead to incontinence. This patient has mild urge incontinence. The first approach to this problem should be behavioral. In a mild case such as this, a cure can be expected, with success rates of 30%–90% in published studies. For more severe cases, various pharmacologic agents, including anticholinergics, are useful. Failure of these modalities should lead to urodynamic testing and consideration of surgery. Ans=C.
<b>09-199.</b> +Nep+Cfp. A 55-year-old female sees you because of a constant leakage of small amounts of urine. Her obstetric/gynecologic history includes two pregnancies, with vaginal deliveries. Her current medications include hydrochlorothiazide, metformin (Glucophage), and glyburide (DiaBeta). On examination she has mild diabetic retinopathy, decreased sensation to monofilament testing on her feet, and suprapubic fullness. The most appropriate initial treatment for this problem would be A) tolterodine (Detrol LA) B) duloxetine (Cymbalta) C) estrogen replacement therapy D) bladder neck needle suspension E) a set schedule for urination	Urinary incontinence. 09-199. Types in women. There are <u>four types of urinary</u> incontinence in women: <u>functional incontinence</u> , which <u>occurs when the</u> patient's inability to ambulate or transfer results in loss of urine; <u>urinary</u> stress incontinence, which is a result of pelvic relaxation and is manifested as involuntary loss of urine with increases in abdominal pressure such as that which occurs with laughing, sneezing, or coughing; <u>detrusor instability or</u> <u>overactive bladder</u> , which is when the urge to urinate is quickly followed by loss of urine, usually a large volume; and <u>neurogenic bladder</u> , which is marked by constant leakage of small amounts of urine. Neurogenic bladder can be caused by diabetes mellitus, multiple sclerosis, or spinal cord injury, and is usually initially treated with a strict voluntary urination schedule, which may be coupled with Crede's maneuver. It can be treated further by adding bethanechol to the regimen. Many patients have to be taught intermittent self-catheterization of the bladder. Ultimately, the patient may require resection of the internal sphincter of the bladder neck. ANS=E.
<ul> <li>10-139. +Nep+Cel. A 77-year-old white male complains of urinary incontinence of more than one year's duration. The incontinence occurs with sudden urgency. No association with coughing or positional change has been noted, and there is no history of fever or dysuria. He underwent transurethral resection of the prostate (TURP) for benign prostatic hypertrophy a year ago, and he says his urinary stream has improved. A rectal examination reveals a smoothly enlarged prostate without nodularity, and normal sphincter tone. No residual urine is found with post-void catheterization. Which one of the following is the most likely cause of this patient's incontinence?</li> <li>A) Detrusor instability</li> <li>B) Urinary tract infection</li> <li>C) Overflow</li> <li>D) Fecal impaction</li> </ul>	Urinary incontinence. <b>10-139.</b> Detrusor instability. <b>ANS=A.</b> In elderly patients, detrusor instability is the most common cause of urinary incontinence in both men and women. Incontinence may actually become worse after surgical relief of obstructive prostatic hypertrophy. Infection is unlikely as the cause of persistent incontinence in this patient in the absence of fever or symptoms of urinary tract infection. Overflow is unlikely in the absence of residual urine. Impaction is a relatively rare cause of urinary incontinence, and associated findings would be present on rectal examination. Normalization of the urinary stream and the absence of residual urine reduce the likelihood of recurrent obstruction. The prostate would be expected to remain enlarged on rectal examination after transurethral resection of the prostate (TURP).
<ul> <li>E) Recurrent bladder outlet obstruction</li> <li><b>08-040.</b> +Nep+Adm. A 65-year-old male presents with a 1-month history of problems passing urine. He says that his bladder will feel full when he needs to urinate, but the urine stream is weak and his bladder does not feel as if it has emptied completely. The symptoms have become increasingly severe over the past week. Other symptoms include upper respiratory congestion for 3 days which he has treated with an over-the-counter decongestant with some relief, constipation with no passage of stool in the past 9 days, and increasing low back pain incompletely relieved with ibuprofen, with associated weakness in both legs. Examination shows a healthy-appearing male who is moderately overweight. He is afebrile and vital signs are normal. There is no abdominal tenderness and no masses are detected. A rectal examination reveals a large amount of hard stool in the rectum; a markedly enlarged (4+), boggy, tender prostate gland; laxity of the anal sphincter; and numbness in the perianal area.</li> <li>Urinalysis shows trace protein and 10–20 WBCs/hpf. Ultrasonography shows a post-void residual volume of 250 mL (normal for age &lt;100). Which one of the following must be done urgently in this patient?</li> <li>A) Foley catheterization</li> <li>B) Hospitalization for intravenous antibiotics</li> <li>C) Digital disimpaction of the rectum, and Fleet enemas until clear</li> <li>D) MRI of the lumbosacral spine</li> </ul>	Urinary retention. <b>08-040.</b> Elderly. <b>ANS=D.</b> The differential diagnosis of urinary retention in the elderly is broad. While most causes are benign and readily treated, the physician must be vigilant in looking for conditions that require urgent intervention. This patient presents with many possible causes of urinary retention, with the most common being benign prostatic hyperplasia. Acute prostatitis, especially in a male with an enlarged prostate, is another relatively common reason for obstructive symptoms. This patient's physical examination and abnormal urinalysis support this diagnosis, but his normal vital signs and lack of fever suggest he can be treated with an oral fluroquinolone and does not require hospital admission for intravenous therapy. Medications such as oral decongestants can contribute to urinary retention in men with enlarged prostate glands, and should be used with caution and discontinued if obstructive symptoms occur. Obstipation with stool impaction is another relatively common reason for urinary retention in the elderly and can be treated with manual disimpaction and enemas. In this patient, the presence of increasing low back pain and leg weakness, and the findings of anal sphincter laxity and numbness in the perianal area on examination, suggest the presence of a serious neurologic etiology such as cauda equina syndrome. Urgent diagnosis and treatment are necessary to reduce morbidity, and MRI should be performed immediately. The presence of a mildly elevated post-void residual is not an indication for urgen decompression with a Foley catheter.
<b>09-218.</b> +Nep+Mac. A 32-year-old primipara is ready to be discharged after a full-term vaginal delivery that was complicated by a prolonged second stage of labor. She required a second-degree posterior vaginal repair, but had no periurethral trauma. A transurethral catheter was removed a few hours after delivery, but 48 hours later she complained of abdominal pain and a persistent need to urinate. The catheter was replaced and yielded approximately 2000 cc of straw-colored urine. Urinary symptoms quickly resolved, but the patient continues to be unable to void on her own. A perineal examination is normal, as is a urinalysis. Which one of the following would be the most appropriate management at this time? A) Oxybutynin (Ditropan), 10 mg daily B) Prednisone, starting with 60 mg/day and tapering quickly over 7 days C) Urgent vaginal Ultrasonography D) Urology consultation for cystoscopy E) Discharge with a catheter in place and close follow-up	Urinary retention. <b>09-218.</b> Postpartum urinary retention (PUR) is often defined as a post-void bladder residual of at least 150 cc that is present 6 hours or more after delivery. <b>ANS=E.</b> This patient suffers from (PUR). This condition is more likely to occur in patients who are primiparous, have a prolonged first or second stage of labor, have instrumented vaginal deliveries, or require a cesarean section for failure to progress. The question of whether epidural anesthesia promotes the condition is still debated. Most cases of PUR will resolve 2–6 days after delivery, but some can take up to several weeks. The use of intermittent self-catheterization or a transurethral catheter is recommended until the patient's ability to spontaneously micturate returns. Imaging studies and referrals to a specialist are rarely necessary, and no medication has been proven helpful.
<b>09-004.</b> +Ref+Cfp. A 30-year-old female with dysfunctional uterine bleeding asks about treatment options. An examination is normal and blood testing is negative. She is unmarried and is undecided about having children. Which one of the following would be the most appropriate treatment for this patient? A) A	Uterine bleeding, dysfunctional. <b>09-004.</b> NSAIDs, oral contraceptive pills, and danazol have not been shown to have sufficient evidence of effect. <b>Ans: A.</b> Progestin is effective when used on a 21-day cycle, but not if used only during the luteal phase. Hysterectomy and ablation are very effective, but both destroy

Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that it is in giving that we

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
levonorgestrel-releasing intrauterine device B) Endometrial ablation C) Hysterectomy D) Oral progestin during the luteal phase	fertility. In a young woman unsure about having children, the levonorgestrel- releasing IUD is most effective and preserves fertility.
<ul> <li>10-113. +Ref+Cfp. A 28-year-old white female consults you with a complaint of irregular heavy menstrual periods. A general physical examination, pelvic examination, and Papanicolaou test are normal and a pregnancy test is negative. A CBC and chemistry profile are also normal. The next step in her workup should be</li> <li>A) endometrial aspiration</li> <li>B) dilatation and curettage</li> </ul>	Uterine bleeding, dysfunctional. <b>10-113.</b> Abnormal uterine bleeding is a relatively common disorder that may be due to functional disorders of the hypothalamus, pituitary, or ovary, as well as uterine lesions. <b>ANS=E.</b> However, the patient who is younger than 30 years of age will rarely be found to have a structural uterine defect. <b>Once pregnancy, hematologic disease, and renal impairment are excluded, administration of intramuscular or oral progesterone will usually produce definitive flow and control the bleeding.</b> No further evaluation should
C) LH and FSH assays D) administration of estrogen E) cyclic administration of progesterone for 3 months	be necessary unless the bleeding recurs. Endometrial aspiration, dilatation and curettage, and other diagnostic procedures are appropriate for recurrent problems or for older women. Estrogen would only increase the problem, which is usually due to anovulation with prolonged estrogen secretion, producing a hypertrophic endometrium.
<ul> <li>08-106. +Ref+Cfp. A 35-year-old female is planning a second pregnancy. Her last pregnancy was complicated by placental abruption caused by a large fibroid tumor of the uterus, which is still present. Which one of the following would be the most appropriate treatment for the fibroid tumor?</li> <li>A) Myomectomy</li> <li>B) Myolysis with endometrial ablation</li> <li>C) Uterine artery embolization</li> <li>D) Observation</li> </ul>	Uterine fibroids. <b>08-106. ANS=A.</b> There are numerous options for the treatment of uterine fibroids. When pregnancy is desired, myomectomy offers the best chance for a successful pregnancy when prior pregnancies have been marked by fibroid-related complications. Endometrial ablation eliminates fertility, and there is a lack of long-term data on fertility after uterine artery embolization. Observation without treatment would not remove the risk for recurrent complications during subsequent pregnancies.
<b>09-099.</b> +Non+Cca. A 12-year-old male presents for a routine physical examination prior to entering middle school. He has received all childhood vaccines at the recommended time. Other than influenza vaccine, he has not received any vaccines since entering kindergarten at age 6. Which one of the following is recommended at this time? A) Tdap, quadrivalent meningococcal conjugate vaccine (MCV4), and quadrivalent HPV vaccine B) Td and MCV4 C) Tdap and MCV4 D) Tdap only E) No vaccinations are recommended at this age	Vaccines, in children. 09-099. ANS=C. <u>Three vaccines are recommended for</u> <u>adolescents ages 11–12 years: Tdap, quadrivalent meningococcal conjugate</u> <u>vaccine (MCV4), and quadrivalent HPV</u> . However, the <u>HPV vaccine is</u> <u>recommended and FDA approved only for females.</u>
<ul> <li>10-058. +Non+Adm. A hospitalized patient is being treated with vancomycin for an infection due to methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). Which one of the following is most important to monitor?</li> <li>A) Hepatic function</li> <li>B) Trough serum levels</li> <li>C) Peak serum levels</li> <li>D) Audiograms</li> </ul>	Vancomycin efficacy. <b>10-058. ANS=B.</b> The best predictor of vancomycin efficacy is the trough serum concentration, which should be over 10 mg/L to prevent development of bacterial resistance. Peak serum concentration is not a predictor of efficacy or toxicity. Monitoring for ototoxicity is not currently recommended. Older vancomycin products had impurities, which apparently caused the ototoxicity seen with these early formulations of the drug.
<ul> <li>07-088. +Pbc+Com. Which one of the following patients should receive a second dose of varicella vaccine?</li> <li>A) A 3-year-old vaccinated at 12 months of age</li> <li>B) A 13-year-old who had varicella at age 4</li> <li>C) A 14-year-old immigrant who received his first dose of vaccine 1 month ago</li> <li>D) A pregnant 16-year-old vaccinated at age 5</li> <li>E) An HIV-positive nurse born in the U.S. in 1978</li> </ul>	Varicella vaccine. <b>07-088. recommendation. ANS=C.</b> Two doses of varicella vaccine are now recommended for almost everyone. The <b>first dose should be given at 12–15 months of age, and a second dose at 4–6 years of age.</b> All unvaccinated <b>people over 13 years of age without evidence of immunity should</b> <u>receive two doses of vaccine given 4–8 weeks apart.</u> The vaccine is not recommended for pregnant women or immunocompromised patients.
<b>07-211.</b> +Neu+Cel. A 63-year-old female presents for a routine evaluation. She asks if she and her husband, age 69, would benefit from the herpes zoster vaccine. You advise her that A) the vaccine is more than 90% effective in preventing herpes zoster B) postherpetic pain reduction is the greatest benefit of the vaccine C) the efficacy of the vaccine decreases after age 70 D) the vaccine is more effective for reducing occurrences than for reducing postherpetic neuralgia	Varicella vaccine. <b>07-211.</b> postherpetic pain reduction. <b>ANS=B.</b> The live attenuated varicella-zoster vaccine has been shown to reduce outbreaks of herpes zoster by 51% in vaccinated individuals. The greatest benefit is the reduction in the severity and duration of postherpetic neuralgia. Efficacy does not decrease after age 70, the age group at greatest risk for postherpetic neuralgia.
<b>07-124.</b> +Hem+Cca. The presence of nonthrombocytopenic palpable purpura, colicky abdominal pain, and arthritis is most consistent with which one of the following? A) Kawasaki disease B) Takayasu arteritis C) Wegener granulomatosis D) Polyarteritis nodosa E) Henoch-Schönlein purpura	Vasculitis. 07-124. Henoch-Schönlein purpura. ANS=E. <u>The most common</u> <u>pediatric vasculitis is Henoch-Schönlein purpura. It is an IgA-mediated</u> <u>small-vessel vasculitis that classically presents with the triad of</u> <u>nonthrombocytopenic palpable purpura, colicky abdominal pain, and</u> <u>arthritis</u> . Kawasaki disease is manifested by conjunctival injection, mucosal
	erythema, rash, and lymphadenopathy. Takayasu arteritis has numerous manifestations, including night sweats, fatigue, weight loss, myalgia, and arthritis. Later findings may include hypertension, skin lesions, and cardiac disorders. Wegener granulomatosis causes constitutional symptoms also, including weight loss and fatigue, with later findings including respiratory problems, ophthalmologic lesions, neuropathies, glomerulonephritis, and skin lesions. Polyarteritis nodosa is another disease that causes constitutional symptoms such as fatigue, fever, and myalgias. It also causes skin lesions, gastrointestinal symptoms such as postprandial abdominal pain, and cardiac lesions.
<ul> <li>10-186. +Hem+Non+Cca.?* An 8-year-old female is brought to your office with a 3-day history of bilateral knee pain. She has had no associated upper respiratory symptoms. On examination she is afebrile. Her knees have full range of motion and no effusion, but she has a purpuric papular rash on both lower extremities. Which one of the following is the most likely cause of her symptoms?</li> <li>A) Henoch-Schönlein purpura</li> <li>B) Rocky Mountain spotted fever</li> <li>C) Juvenile rheumatoid arthritis</li> <li>D) Lyme disease</li> <li>E) Rheumatic fever</li> </ul>	Vasculitis. <b>10-186.</b> Henoch-Schönlein purpura. <b>ANS=A.</b> The combination of arthritis with a typical palpable purpuric rash is consistent with a diagnosis of Henoch-Schönlein purpura. This most often occurs in children from 2 to 8 years old. Arthritis is present in about two-thirds of those affected. Gastrointestinal and renal involvement are also common. Rocky Mountain spotted fever presents with a rash, but arthralgias are not typical. These patients are usually sick with a fever and headache. Juvenile rheumatoid arthritis is associated with a salmon-pink maculopapular rash, but not purpura. The rash associated with Lyme disease is erythema migrans, which is a bull's-eye lesion at the site of a tick bite. The rash associated with rheumatic fever is erythema marginatum, which is a pink, raised,
10-091. +Car+Euc.>L?* Which one of the following should be used first for           Copyrighted Material. ITE Personal Notes. Not for Sale.         Page 165 of 170	macular rash with sharply demarcated borders. Ventricular fibrillation. <b>10-091. Persistent. ANS=D. For persistent ventricular</b> Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>
receive."	

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
ventricular fibrillation when an initial defibrillation attempt fails? A) Amiodarone (Cordarone) B) Lidocaine (Xylocaine) C) Adenosine (Adenocard) D) Vasopressin (Pitressin) E) Magnesium	fibrillation (VF), in addition to electrical defibrillation and CPR, patients should be given a vasopressor, which can be either epinephrine or vasopressin. Vasopressin may be substituted for the first or second dose of epinephrine. <u>Amiodarone should be considered for treatment of VF</u> <u>unresponsive to shock delivery, CPR, and a vasopressor (but, remember it is</u> the first-line drug in Ventricular Tachycardia). Lidocaine is an alternative antiarrhythmic agent, but should be used only when amiodarone is not available. Magnesium may terminate or prevent torsades de pointes in patients who have a prolonged QT interval during normal sinus rhythm. Adenosine is used for the treatment of narrow complex, regular tachycardias and is not used in the treatment of ventricular fibrillation.
<ul> <li>07-200. +Car+Adm. Which one of the following is considered first-line treatment for shock-resistant ventricular tachycardia?</li> <li>A) Amiodarone (Cordarone)</li> <li>B) Vasopressin (Pitressin)</li> <li>C) Lidocaine (Xylocaine)</li> <li>D) Procainamide (Pronestyl)</li> <li>E) Magnesium</li> </ul>	Ventricular tachycardia. 07-200. Shock-resistant. ANS=B (now A). The treatment of shock-resistant ventricular tachycardia (VT) has changed in recent years. Amiodarone is now the first-line drug, rather than vasopressin or epinephrine. Lidocaine is less effective than other agents for terminating VT, but has a use in patients with stable VT with preserved ventricular function. Procainamide and lidocaine may be used in similar situations, but procainamide is also useful for atrial dysrhythmias. VT (regular, wide complex tachycardia). VT in the presence of a stable blood pressure does not warrant cardioversion. The best treatment is loading with amiodarone (drug of choice).
<ul> <li>10-030. +Car+Adm. Amiodarone (Cordarone) is most useful for which one of the following?</li> <li>A) Prophylactic perioperative use for emergency surgery</li> <li>B) Primary prevention of nonischemic cardiomyopathy</li> <li>C) Treatment of atrial flutter</li> <li>D) Treatment of multi-focal premature ventricular contractions following acute myocardial infarction</li> <li>E) Treatment of sustained ventricular tachyarrhythmias in patients with poor hemodynamic stability</li> </ul>	Ventricular tachycardia. 10-030. Amiodarone is one of the most frequently prescribed antiarrhythmic medications in the U.S. ANS=E. It is <u>useful in the</u> <u>acute management of sustained ventricular tachyarrhythmias, regardless of</u> <u>hemodynamic stability</u> . Amiodarone is appropriate first-line treatment for atrial fibrillation only in symptomatic patients with left ventricular dysfunction and heart failure. It has a very limited role in the treatment of atrial flutter. The only role for prophylactic amiodarone is in the perioperative period of cardiac surgery. The use of prophylactic antiarrhythmic agents in the face of "warning dysrhythmias" or after myocardial infarction is no longer recommended. Prophylactic amiodarone is not indicated for primary prevention in patients with nonischemic cardiomyopathy.
<ul> <li>07-062. +Sen+Adm. A 42-year-old African-American male recently traveled to the Caribbean for a scuba diving trip. Since his return he has noted brief intermittent episodes of vertigo not associated with nausea or vomiting. He is concerned, however, because these episodes occurred after sneezing or coughing and then a couple of times after straining while lifting something. He has had no hearing loss, and no vertigo with positional changes such as bending over or turning over in bed. The most likely cause of this patient's vertigo is</li> <li>A) vestibular neuronitis</li> <li>B) Meniere's disease</li> <li>C) benign paroxysmal positional vertigo</li> <li>D) a perilymphatic fistula</li> <li>E) multiple sclerosis triggered by a rapid change in climate</li> </ul>	Vertigo/ Dizziness. <b>07-062. ANS=D.</b> A perilymphatic fistula between the middle and inner ear may be caused by barotrauma from scuba diving, as well as by direct blows, heavy weight bearing, and excessive straining (e.g., with sneezing or bowel movements.) This patient's recent trip involved two of these potential factors. Vestibular neuronitis is a more sudden, unremitting syndrome. Meniere's disease is manifested by episodes of vertigo, associated with hearing loss and often with nausea and vomiting. Benign paroxysmal positional vertigo is more likely in older individuals, and is associated with postural change. Multiple sclerosis requires symptoms in multiple areas and is not thought to be provoked by climate change.
<ul> <li>08-049. +Neu+Adm. Dizziness is most likely to have a serious etiology when it</li> <li>A) is associated with diplopia</li> <li>B) is associated with intense nausea and vomiting</li> <li>C) occurs when the patient rolls over in bed</li> <li>D) occurs when the patient first arises in the morning</li> <li>E) occurs after 2 minutes of hyperventilation</li> </ul>	Vertigo/ Dizziness. <b>08-049.</b> Dizziness. <b>08-049. ANS=A.</b> Diplopia, along with other neurologic symptoms such as weakness or difficulty with speech, suggests a central cause of vertigo and requires a complete workup. Dizziness on first arising, dizziness with rolling over in bed, and dizziness with nausea and vomiting are consistent with peripheral causes of vertigo, such as benign positional vertigo. Dizziness that occurs after a couple of minutes of hyperventilation suggests a psychogenic cause.
<b>07-001.</b> +Res+Cca. A 5-month-old infant is brought to your office by his mother, who states that he has experienced 2 days of nasal congestion and cough. The child is in no distress. After a thorough history and examination you arrive at the diagnosis of viral upper respiratory infection. Which one of the following is recommended as both safe and effective for patients this age? A) Amoxicillin B) Azithromycin (Zithromax) C) Dextromethorphan D) Nasal bulb suction E) Pseudoephedrine	Viral infection. 07-001. Prescribing antibiotics for viral upper respiratory infections is inappropriate and is discouraged by all evidence-based recommendations. ANS=D. Over-the-counter medications have often been reased about their use in young children. Early in 2007 the Centers for Disease Control (CDC) released a report about the use of over-the-counter cold medications in children less than 2 years of age. The report reminds practitioners that the Food and Drug Administration (FDA) has not approved any dosing regimens for these medications in young children, since their effectiveness has not been proven and the risks for toxicity are not adequately known in this age group. It was reported that 1519 children were treated in U.S. emergency departments in 2005 for adverse events related to these medications, including some overdoses and at least three deaths. The 2007 CDC report adds to similar warnings on the use of over-the-counter cold medications in young children from the American Academy of Pediatrics and the American College of Chest Physicians. As an alternative, parents and other caregivers are encouraged to use rubber suction
Copyrighted Material. ITE Personal Notes. Not for Sale. Page 166 of 170	bulbs, saline nose drops, and cool-mist humidifiers. Mario A. Jimenez, M.D., B.S.E.E. "Jesus died for us and teaches us that <i>it is in giving that we</i>

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>10-016. +Non+Adm. A 24-year-old female presents to your clinic with a 5-day history of fever to 103°F. She has no localizing symptoms or overt physical findings. Initial testing shows an elevated WBC count with a disproportionate number of reactive lymphocytes. Which one of the following conditions is the most likely cause of these findings?</li> <li>A) Bacterial infection</li> <li>B) Connective tissue disease</li> <li>C) Lymphoma</li> <li>D) Viral infection</li> </ul>	Viral infection. <b>10-016.</b> The conditions that result in an absolute increase in lymphocytes are divided into primary causes (usually neoplastic hyperproliferation) and secondary or reactive causes. <b>ANS=D.</b> The presence of reactive lymphocytes will often be reported on a manual differential, since they have a distinctive appearance. The most common conditions that produce a reactive lymphocytosis are viral infections. Most notable are Epstein-Barr virus, infectious mononucleosis, and cytomegalovirus. Other viral infections known to cause this finding include herpes simplex, herpes zoster, HIV, hepatitis, and adenovirus. Connective tissue disease can infrequently cause a reactive lymphocytosis, but other signs or symptoms are usually present. Bacterial infections more commonly result in an increase in neutrophils. One exception to this is <i>Bordetella pertussis</i> , which has been known to cause absolute lymphocyte counts of up to 70,000/_L. This infection is associated with classic symptoms that this patient does not have.
<ul> <li>10-056. +Hem+Adm. An elevation of serum methylmalonic acid is both sensitive and specific for a cellular deficiency of which vitamin?</li> <li>A) Vitamin A</li> <li>B) Vitamin B6</li> <li>C) Vitamin B12</li> <li>D) Vitamin D</li> <li>E) Folate</li> </ul>	sensitive and specific for cellular vitamin B12 deficiency.
<b>07-186.</b> +End+Cel. A 62-year-old white female complains of bone and muscle pain in both legs for several years. She denies any joint pain or swelling. Her only medication is occasional acetaminophen for pain. She denies taking vitamins or supplements, although she eats a serving of yogurt every day. On examination the patient weighs 61 kg (134 lb) and is 157 cm (62 in) tall. Her height has not changed in the past 2 years. The remainder of the examination is unremarkable. Laboratory evaluation reveals that her CBC, erythrocyte sedimentation rate, and creatinine, protein, albumin, alkaline phosphatase, and TSH levels are all within normal limits. Her serum calcium level is 9.1 mg/dL (N 8.5–10.5) and her 25-OH vitamin D level is 16 ng/mL (N 25–80). What is the best initial treatment for this patient? A) Calcium carbonate, 500 mg twice daily, and vitamin D2, 400 IU/day B) Calcium gluconate, 600 mg/day, and vitamin D2, 800 IU/day D) Vitamin D2, 800 IU/day E) Vitamin D2, 50,000 IU once a week for 8–12 weeks	Vitamin D. <b>07-186. ANS=E.</b> This patient has vitamin D deficiency and requires replacement doses. The amount of vitamin D needed to correct a deficiency is higher than the dosage recommended for prevention of osteoporosis (800 <u>IU/day</u> ) or the recommended daily allowance (200 IU/day). It is typically given as a weekly dose of 50,000 IU of vitamin D2 for 8–12 weeks (evidence level C). After this, a 25-OH vitamin D level should be repeated. Daily doses of vitamin D2 up to 10,000 IU are also considered to be effective and safe for treatment of vitamin D deficiency.
<ul> <li>08-101. +Pbc+Adm. The daily intake of vitamins and minerals recommended by the Food and Nutrition Board varies according to sex, age, and condition. The recommended daily allowance of vitamin D is greatest for which one of the following?</li> <li>A) A 15-year-old nonpregnant female</li> <li>B) A 25-year-old pregnant female</li> <li>C) A 35-year-old female</li> <li>E) A 75-year-old female</li> </ul>	Vitamin D. 08-101. ANS=E. The current Dietary Reference Intake (DRI) recommendation for vitamin D is 200 IU/day for all women between the ages of 9 and 50 years; pregnancy or lactation does not affect the recommendation. The DRI doubles to 400 IU daily for women age 51–70 and triples to 600 IU daily for women over the age of 70. The maximum daily oral intake of vitamin D thought to be safe is 2000 IU/day for all females over the age of 12 months. <u>Uptodate:</u> REQUIREMENTS — Estimates of vitamin D requirements vary and depend in part on sun exposure and the standards used to define a deficient state. A minimum consumption of 200 IU (5 micrograms) daily of vitamin D per day is recommended by the National Research Council [23], and this is also the "adequate intake" estimated by the Institute of Medicine (table 2) [22]. Due to increasing evidence of adverse health effects of subclinical vitamin D deficiency, vitamin D intakes above the "Adequate Intake" estimates are often recommended. For pregnant and lactating mothers with minimal sun <u>exposure, intake of 10 micrograms (400 IU) often is recommended</u> , and some studies suggest that considerably higher intakes may be necessary to maintain normal levels of 25OHD [24,25]. <u>Intake of 20 micrograms (800 IU) of vitamin</u> D daily often is recommended in older adults and appear to be necessary to minimize fracture risk. The best laboratory indicator of vitamin D adequacy is the serum 25-OH vitamin D concentration. The lower limit of 25OHD levels varies depending on the geographic location and sunlight exposure of the reference population (range 8 to 15 ng/m). However, there is no consensus on the optimal 25OHD concentration for skeletal or extraskeletal health. Many agree that a minimum level of 30 ng/ml (75 nmol/L) is necessary. The serum parathyroid hormone (PTH) level typically is inversely related to 25-OH vitamin D levels, and is a useful secondary indicator of vitamin D insufficiency.
<b>09-015.</b> +Non+Adm. Which one of the following is the best diagnostic test for vitamin D deficiency? A) Ionized calcium B) Serum phosphorus C) 24-hour urine for calcium D) 1,25-hydroxyvitamin D E) 25-hydroxyvitamin D	Vitamin D. 09-015. Vitamin D deficiency is not uncommon, and <u>25-hydroxyvitamin D is the barometer for vitamin D status</u> . Vitamin D deficiency is defined by most experts as a 25-hydroxyvitamin D level of <20 ng/mL (50 nmol/L). 1,25-dihydroxy-vitamin D is not usually used to determine vitamin D status because it has a short half-life of 15 hours and is tightly regulated by parathyroid hormone, calcium, and phosphate.
<ul> <li>10-136. +Mus+Adm. A patient complains of throbbing bone pain in her lower back and legs. She also has felt weaker recently. Which one of the following tests would confirm a vitamin D deficiency?</li> <li>A) 25-hydroxyvitamin D</li> <li>B) 1,25-dihydroxyvitamin D</li> <li>C) Ergocalciferol (vitamin D2)</li> <li>D) Cholecalciferol (vitamin D3)</li> </ul>	Vitamin D. <b>10-136. ANS=A.</b> Serum 25-hydroxyvitamin D should be obtained in any patient with suspected vitamin D deficiency because it is the major circulating form of vitamin D (SOR A). 1,25-Dihydroxyvitamin D is the most active metabolite, but levels can be increased by secondary hyperparathyroidism. In persons with vitamin D deficiency, ergocalciferol (vitamin D2) or cholecalciferol (vitamin D3) can be used to replenish stores (SOR B).

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
10-211. +Non+Cca.>L?* For a healthy 1-month-old, daily vitamin D intake	Vitamin D. 10-211. ANS=D. It is now recommended that all infants and
should be	children, including adolescents, have a minimum daily intake of 400 IU of
A) 50 IU	vitamin D, beginning soon after birth. The current recommendation replaces
B) 100 IU	the previous recommendation of a minimum daily intake of 200 IU/day of
C) 200 IU	vitamin D supplementation beginning in the first 2 months after birth and
D) 400 IU	continuing through adolescence. These revised guidelines for vitamin D intake
E) 800 IU	for healthy infants, children, and adolescents are based on evidence from new
	clinical trials and the historical precedent of safely giving 400 IU of vitamin D per
	day in the pediatric and adolescent population. New evidence supports a
	potential role for vitamin D in maintaining innate immunity and preventing
	diseases such as diabetes mellitus and cancer.
09-058. +Non+Cel. According to the U.S. Preventive Services Task Force,	Vitamins & minerals. 09-058. ANS=A. The U.S. Preventive Services Task Force
multivitamin supplements in the geriatric age group A) are not recommended for	makes no specific recommendations for vitamins or antioxidants to prevent cancer
prevention of any disorder B) should be prescribed to reduce elevated	or cardiovascular disease. Moreover, it makes no specific recommendations for
homocysteine levels C) decrease coronary atherosclerosis D) decrease the	vitamin supplements for any condition.
incidence of lung cancer E) decrease the incidence of colon cancer	stanni supplemento foi any conditioni
<b>09-069.</b> +Mus+Adm. Which one of the following decreases the absorption of	Vitamins & minerals. 09-069. Calcium supplement absorption. ANS=D. Long-
orally administered calcium supplements?	term histamine H2-blocker or proton pump inhibitor use is associated with
A) Taking calcium carbonate with meals	decreased absorption of calcium carbonate. Patients taking these medications
B) Taking calcium citrate with meals	who require calcium supplementation should use calcium citrate to improve
C) Vitamin D supplementation	<b>absorption</b> . Calcium carbonate preparation should use calcium citi ate to improve
D) Proton pump inhibitors	improve absorption. Vitamin D is important in calcium absorption.
<b>10-039.</b> +Res+Adm.? A 24-year-old female with a 2-year history of dyspnea on	Vocal cord dysfunction. <b>10-039.</b> ANS=B. The diagnosis of vocal cord dysfunction
exertion has been diagnosed with exercise-induced asthma by another physician.	should be considered in patients diagnosed with exercise-induced asthma who do
Which one of the following findings on pulmonary function testing would raise	not have a good response to B-agonists before exercise. Pulmonary function
concerns that she actually has vocal cord dysfunction?	testing with a flow-volume loop typically shows a normal expiratory portion but a
A) A good response to an inhaled B-agonist	flattened inspiratory phase (SOR C). A decreased FEV1 and normal FVC would
B) Flattening of the inspiratory portion of the flow-volume loop, but a normal	be consistent with asthma.
expiratory phase	be consistent with astimu.
C) Flattening of the expiratory portion of the flow-volume loop, but a normal	
inspiratory phase	
D) Flattening of both the inspiratory and expiratory portion of the flow-volume	
loop	
E) A decreased FEV1 and a normal FVC	
<b>08-168.</b> +Gas+Cca. A 3-week-old male is brought to your office because of a	Volvulus. <b>08-168.</b> Volvulus may present in one of three ways: as a sudden onset
sudden onset of bilious vomiting of several hours' duration. He is irritable and	of bilious voniting and abdominal pain in a neonate; as a history of "feeding
refuses to breastfeed, but stools have been normal. He was delivered at term after	problems" with bilious vomiting that appears to be a bowel obstruction; or less
a normal pregnancy, and has had no health problems to date. A physical	commonly, as failure to thrive with severe feeding intolerance. ANS=E. The
	classic finding on abdominal plain films is the "double bubble" sign, which
examination shows a fussy child with a distended abdomen. Radiography of the abdomen shows a "double bubble" sign. Which one of the following is the most	shows a paucity of gas (airless abdomen) with two air bubbles, one in the stomach
likely diagnosis?	and one in the duodenum. However, the plain film can be entirely normal. The
A) Infantile colic	upper gastrointestinal contrast study is considered the gold standard for
B) Necrotizing enterocolitis	<b>diagnosing volvulus.</b> Infantile colic usually begins during the second week of life
C) Hypertrophic pyloric stenosis	and typically occurs in the evening. It is characterized by screaming episodes and
D) Intussusception	a distended or tight abdomen. Its etiology has yet to be determined. There are no
E) Midgut volvulus	abnormalities on physical examination and ancillary studies, and symptoms
	usually resolve spontaneously around 12 weeks of age. Necrotizing enterocolitis is
	typically seen in the distressed neonate in the intensive-care nursery, but it may
	occasionally be seen in the healthy neonate within the first 2 weeks of life. The
	child will appear ill, with symptoms including irritability, poor feeding, a
	distended abdomen, and bloody stools. Abdominal plain films will show
	pneumatosis intestinalis, caused by gas in the intestinal wall, which is diagnostic
	of the condition. Hypertrophic pyloric stenosis is a narrowing of the pyloric canal
	caused by hypertrophy of the musculature. It usually presents during the third to
	fifth weeks of life. Projectile vomiting after feeding, weight loss, and dehydration
	are common. The vomitus is always nonbilious, because the obstruction is
	proximal to the duodenum. If a small olive-size mass cannot be felt in the right
	upper or middle quadrant, Ultrasonography will confirm the diagnosis.
	Intussusception is seen most frequently between the ages of 3 months and 5 years,
	with 60% of cases occurring in the first year and a peak incidence at 6-11 months
	of age. The disorder occurs predominantly in males. The classic triad of
	intermittent colicky abdominal pain, vomiting, and bloody, mucous stools is
	encountered in only 20%-40% of cases. At least two of these findings will be
	present in approximately 60% of patients. The abdomen may be distended and
	tender, and there may be an elongated mass in the right upper or lower quadrants.
	Rectal examination may reveal either occult blood or frankly bloody, foul-
	smelling stool, classically described as "currant jelly." An air enema using
	fluoroscopic guidance is useful for both diagnosis and treatment.

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
<ul> <li>07-105. +Pbc+Com. A 76-year-old male has fallen twice as a result of buckling of the left knee during ambulation. Neither fall resulted in injury, and he is advised to use an offset walking cane. The patient is left hand–dominant and has normal strength in all four extremities. Crepitus is present in both knees, but is much more pronounced in the left knee. Which one of the following describes the best method for use of a cane by this patient?</li> <li>A) Place the cane in the left hand and advance it at the same time as the left leg B) Place the cane in the right hand and advance it at the same time as the left leg E) Place the cane in the right hand and advance it at the same time as the right leg E) Switch the cane between hands at intervals of several hours to distribute the</li> </ul>	we demonstrate the standard walking cane           reserved balance and reduction of weight bearing on a particular leg is desired.
load equally 08-225. +Pbc+Cel. A 72-year-old male presents with unintentional weight loss of 25 lb over the last 6 months. His history, including a nutritional assessment, is unremarkable, as is his physical examination. His current medications include mirtazapine (Remeron) for depression and hydrochlorothiazide for hypertension. Which one of the following would be the most appropriate next step? A) Order a CBC, chemistry panel, stool for occult blood, and TSH B) Refer for immediate colonoscopy and esophagogastroduodenoscopy C) Schedule CT of the chest, abdomen, and pelvis D) Start megestrol (Megace) to promote weight gain E) Discontinue mirtazapine	Weight loss. <b>08-225.</b> In the elderly. <b>ANS=A.</b> There should be a rational approach to evaluating weight loss in an elderly patient. The workup should be directed by findings in the history and physical examination, with special emphasis given to neurologic and psychosocial aspects. Unless the history or physical examination point in a specific direction, standard tests should be performed first, including a CBC, chemistry panel, stool for occult blood, and TSH level. Although the etiology of unintentional weight loss in the elderly is malignancy in 16%–36% of such cases, specific tests are not indicated before CT. Medications, including SSRIs, NSAIDs, bupropion, digoxin, and metformin can cause weight loss; however, amitriptyline often leads to weight gain. Mirtazapine has been shown to increase appetite and promote weight gain. Megestrol has been used successfully to treat cachexia in patients with AIDS or cancer. When given in a dosage of at least 320 mg/day, megestrol has produced weight gain, but side effects of edema, constipation, and delirium may limit its usefulness. Lower dosages may be effective for stimulating weight gain in frail elderly patients, although this approach needs to be tested in randomized, controlled trials. In the patient described, a workup seeking the etiology of the weight loss should begin
<ul> <li>08-056. +Car+Euc. A 75-year-old male presents to the emergency department with a several-hour history of back pain in the interscapular region. His medical history includes a previous myocardial infarction (MI) several years ago, a history of cigarette smoking until the time of the MI, and hypertension that is well controlled with hydrochlorothiazide and lisinopril (Prinivil, Zestril). The patient appears anxious, but all pulses are intact. His blood pressure is 170/110 mm Hg and his pulse rate is 110 beats/min. An EKG shows evidence of an old inferior wall MI but no acute changes. A chest radiograph shows a widened mediastinum and a normal aortic arch, and CT of the chest shows a dissecting aneurysm of the descending aorta that is distal to the proximal abdominal aorta but does not involve the renal arteries.</li> <li>Which one of the following would be the most appropriate next step in the management of this patient?</li> <li>A) Immediate surgical intervention</li> <li>B) Arteriography of the aorta</li> <li>C) Intravenous nitroprusside (Nitropress)</li> <li>D) A nitroglycerin drip</li> <li>E) Intravenous labetalol (Trandate)</li> </ul>	promptly. Widened mediastinum. <b>08-056.</b> Dissecting aneurysm. Patients with thoracic aneurysms often present without symptoms. <b>ANS=E.</b> With dissecting aneurysms, however, the presenting symptom depends on the location of the aneurysm. Aneurysms can compress or distort nearby structures, resulting in branch vessel compression or embolization of peripheral arteries from a thrombus within the aneurysm. Leakage of the aneurysm will cause pain, and rupture can occur with catastrophic results, including severe pain, hypotension, shock, and death. Aneurysms in the ascending aorta may present with acute heart failure brought about by aortic regurgitation from aortic root dilatation and distortion of the annulus. Other presenting findings may include hoarseness, myocardial ischemia, paralysis of a hemidiaphragm, wheezing, coughing, hemoptysis, dyspnea, dysphagia, or superior vena cava syndrome. This diagnosis should be suspected in individuals in their sixties and seventies with the same risk factors as those for coronary artery disease, particularly smokers. A chest radiograph may show widening of the mediastinum, enlargement of the aortic knob, or tracheal displacement. Transesophageal echocardiography can be very useful when dissection is suspected. CT with intravenous contrast is very accurate for showing the size, extent of disease, pressure of leakage, and nearby pathology. Angiography is the preferred method for evaluation and is best for evaluation of branch vessel pathology. MR angiography provides noninvasive multiplanar image reconstruction, but does have limited availability and lower resolution than traditional contrast angiography. Acute dissection of the ascending aorta is a

Mario's ITE database V2010.007	Document copy for the sole personal use of Dr. Mario Alberto Jimenez
	surgical emergency, but dissections confined to the descending aorta are managed
	medically unless the patient demonstrates progression or continued hemorrhage
	into the retroperitoneal space or pleura. Initial management should reduce the
	systolic blood pressure to 100–120mm Hg or to the lowest level tolerated. The use
	of a B-blocker such as propranolol or labetalol to get the heart rate below 60
	beats/min should be first-line therapy. If the systolic blood pressure remains over
	100 mm Hg, intravenous nitroprusside should be added. Vasodilation will induce
	reflex activation of the sympathetic nervous system, causing increased ventricular
	contraction and increased shear stress on the aorta. For descending dissections,
	surgery is indicated only for complications such as occlusion of a major aortic
	branch, continued extension or expansion of the dissection, or rupture (which may
	be manifested by persistent or recurrent pain).
<b>10-109.</b> +Car+Adm. A chest radiograph of the driver of an automobile involved in a head-on collision shows a widened mediastinum. This suggests	Widened mediastinum. <b>10-109.</b> Transection of the aorta. <b>ANS=D.</b> Deceleration- type blows to the chest can produce partial or complete transection of the aorta. A
A) myocardial contusion	
B) spontaneous rupture of the esophagus	chest radiograph shows an acutely widened mediastinum and/or a pleural effusion when the condition is severe. The other conditions listed would produce
C) rupture of a bronchus	mediastinal emphysema (esophageal or bronchial rupture), a widened heart, or
D) partial rupture of the thoracic aorta	pulmonary edema (acute heart failure, myocardial contusion).
E) acute heart failure	putitionary edema (acute neart fanure, myocardiar contusion).
<b>09-073.</b> +Int+Adm. An otherwise healthy 37-year-old male presents to your office	<i>Wood's fluorescence</i> . <b>09-073.</b> coral-red fluorescence. <b>ANS=B.</b> The characteristics
with a 2-week history of redness and slight irritation in his groin. On examination	of this lesion, including coral-red fluorescence under a Wood's light, suggests
a tender erythematous plaque with mild scaling is seen in his right crural fold. The	<i>Corynebacterium</i> infection, which is associated with erythrasma. Tinea cruris
area fluoresces coral-red under a Wood's light. Which one of the following would	caused by <i>Microsporum</i> infection fluoresces green, while intertrigo and tinea
be the most appropriate treatment at this time? A) Amoxicillin B) Erythromycin	cruris caused by <i>Epidermophyton</i> or <i>Trichophyton</i> infections do not fluoresce.
C) Ketoconazole D) Nystatin (Mycostatin)	Erythromycin, either systemic or topical, is the treatment of choice.
E) Triamcinolone (Kenalog)	$\mathbf{r}$
<b>08-051.</b> +Int+Cel. A 72-year-old white male in otherwise good health complains	Xerosis. <b>08-051.</b> Xerosis is a pathologic dryness of the skin that is especially
of generalized pruritus that worsens in the winter. The itching is most intense after	prominent in the elderly. ANS=C. It is probably caused by minor abnormalities in
he bathes. He recently noticed a rash on his abdomen and legs as well. On	maturation of the epidermis that lead to decreased hydration of the superficial
examination you note poorly defined red, scaly plaques with fine fissures on the	portion of the stratum corneum. Xerosis often intensifies in winter, because of the
abdomen. No eruption is present at other pruritic sites. Which one of the	lower humidity and cold temperatures. Stasis dermatitis, due to chronic venous
following is the most likely cause of this problem?	insufficiency, appears as a reddish-brown discoloration of the lower leg. Lichen
A) Stasis dermatitis	simplex chronicus, the end result of habitual scratching or rubbing, usually
B) Lichen simplex chronicus	presents as isolated hyperpigmented, edematous lesions, which become scaly and
C) Xerosis	thickened in the center. Rosacea is most often seen on the face as an
D) Rosacea	erythematous, acneiform eruption, which flushes easily and is surrounded by
E) Candidiasis	telangiectasia. Candidiasis is an opportunistic infection favoring areas that are
	warm, moist, and macerated, such as the perianal and inguinal folds,
	inframammary folds, axillae, interdigital areas, and corners of the mouth.