

PART 1(Pharmacology and Clinical Pharmacy - MCQ)

Question 1 [1.00 pt(s)]

Which of the following side effects of chlorpromazine and phenothiazine neuroleptics is explained by their antidopaminergic action?

- Dry mouth
- Eruptions
- Extrapyrimalidal syndrome
- Constipation

Question 2 [1.00 pt(s)]

Which of the following statements of clonidine is false?

- It is a centrally acting antihypertensive
- It increases vagal tone
- It can be given in the treatment of opioids "withdrawal
- It is contra- indicated in angina

Question 3 [1.00 pt(s)]

Which of the following statements of metoclopramide is FALSE

- Is an antiemetic
- Reduces antral contractions
- Increases the pressure of the lower esophageal sphincter
- May be responsible for dyskinesias

Question 4 [1.00 pt(s)]

Which of these medications is not an enzyme inducer?

- Carbamazepine
- Rifampin
- Phenytoin
- Erythromycin

Question 5 [1.00 pt(s)]

Which of the following effects is not observed during the treatment with parasympatholytic drugs

- Tachycardia
- Mydriasis
- Relaxation of the bladder sphincter
- Relaxation of the intestine

Question 6 [1.00 pt(s)]

Adding adrenaline to a lidocaine solution to be administered by subcutaneous injection can prolong the duration of local anesthesia by:

- Decreased permeability of the vascular endothelium
- Precipitation of lidocaine
- Changing the pH of the solution
- Local Vasoconstriction

Question 7 [1.00 pt(s)]

What is the side effect that is not observed during the treatment with tricyclic antidepressants?

- Dry mouth
- Myocardial toxicity
- Skin Pigmentation
- Seizure threshold lowering

Question 8 [1.00 pt(s)]

What is the property that benzodiazepines do not have?

- Antidepressant
- Anticonvulsant
- Amnesic
- Muscle Relaxant

Question 9 [1.00 pt(s)]

The stimulation of beta-adrenergic receptors causes:

- Miosis
- Bronchoconstriction
- Relaxation of the uterus
- Vasoconstriction

Question 10 [1.00 pt(s)]

The pseudo-parkinsonian syndrome can be observed after the treatment with the following medication:

- Valproic Acid
- Diazepam
- Haloperidol

- Clomipramine

Question 11 [1.00 pt(s)]

What is the side effect that is not be observed during the treatment with Levodopa?

- Dyskinesias
- Confusion
- Nausea and vomiting
- Impotence

Question 12 [1.00 pt(s)]

Which of these treatments is not part of the therapeutic arsenal of acne?

- Retinoids
- Benzoyl peroxide
- Topical macrolide
- Metronidazole

Question 13 [1.00 pt(s)]

What is the therapeutic class that does not have anticholinergic properties?

- Tricyclic antidepressants
- Digitalis
- Antiparkinsonism
- Digestive antispasmodics

Question 14 [1.00 pt(s)]

What is the process that may not be adopted to prevent the nephrotoxicity of aminoglycosides?

- Maintain diuresis with furosemide
- Monitoring residual serum
- Adaptation of doses according to the creatinine clearance
- Correction of any dehydration

Question 15 [1.00 pt(s)]

The use of trihexyphenidyl in a Parkinson's patient:

- Acts on dopamine receptors
- Acts on the cholinergic system
- Facilitates the release of dopamine
- Causes miosis

Question 16 [1.00 pt(s)]

Valproic acid has all of the following side effects except:

- Sedation

- Thrombocytopenia
- Hypothyroidism
- Hepatotoxicity

Question 17 [1.00 pt(s)]

The following agent can be used as a mood stabilizer in bipolar disorder treatment except:

- Valproic acid
- Carbamazepine
- Lithium
- Phenytoin

Question 18 [1.00 pt(s)]

What is the state that should not necessarily be performed prior to initiating lithium treatment as mood stabilizers treatment?

- Thyroid function tests
- Liver function tests
- Cardiac function tests
- Blood electrolytes levels tests (to mainly check serum sodium)

Question 19 [1.00 pt(s)]

The increase in the toxicity of anticoagulants and oral sulfonylureas when combined with a non-steroidal anti-inflammatory drug is due to:

- Enzyme-inhibition
- plasma proteins interaction
- plasma transporters interactions (P-gp, BCRP)
- Enzyme induction

Question 20 [1.00 pt(s)]

The bioavailability of a drug administered by direct intravenous route is:

- 100%
- 0%
- Dependent on the half-life of the drug
- Is unpredictable

Question 21 [1.00 pt(s)]

Which of the following anti-infective drugs is not contra-indicated with alcohol?

- Metronidazole
- Ketoconazole

- Amoxicillin + clavulanic acid
- Tinidazole

Question 22 [1.00 pt(s)]

Which of the following molecules is not recommended for the treatment of *Pseudomonas aeruginosa* infections?

- Ceftazidime
- Piperacillin +Tazobactam
- Cefotaxime
- Cefepime

Question 23 [1.00 pt(s)]

Which of the following molecules is not recommended for the treatment of *E. coli* beta-lactamase carrying extended spectrum

- Cefepime
- Ceftriaxone
- Imipenem
- Amikacin

Question 24 [1.00 pt(s)]

Which of the following molecules is not recommended in the treatment of *Staphylococcus aureus* resistant to methicillin (MRSA)?

- Vancomycin
- Imipenem
- Teicoplanine
- Tygecycline

Question 25 [1.00 pt(s)]

The following antibiotics are capable of inducing nephrotoxicity even in patients with normal renal function:

- Quinolones
- Macrolides
- Aminoglycosides
- B-lactams

Question 26 [1.00 pt(s)]

What is the antibiotic that cannot be the cause of QT prolongation with risk of torsades de Pointe and cardiac arrest?

- Azithromycin
- Amikacin
- Levofloxacin

- Clarithromycin

Question 27 [1.00 pt(s)]

Heparin is capable of inducing:

- Agranulocytosis
- acute renal failure
- Thrombocytopenia
- Liver failure

Question 28 [1.00 pt(s)]

Which of the following is not an indication of opiate antagonists (naloxone and naltrexone)?

- Treatment of opioid withdrawal symptoms
- Treatment of alcohol withdrawal symptoms
- Treatment of morphine overdose
- Treatment of cocaine intoxication

Question 29 [1.00 pt(s)]

A drug that is used safely in hypertensive patients with ischemic heart disease:

- lisinopril
- minoxidil
- phentolamine
- diazoxide

Question 30 [1.00 pt(s)]

A diuretic that inhibits carbonic anhydrase enzyme in the proximal tubular epithelial cells:

- amiloride
- acetazolamide
- hydrochlorothiazide
- furosemide

Question 31 [1.00 pt(s)]

In case of an acute anginal attack, you should dispense which of the following drugs?

- isosorbide mononitrate
- amlodipine
- nitroglycerin
- propranolol

Question 32 [1.00 pt(s)]

In case of Prinzmetal's angina, which of the following drugs is NOT used?:

- propranolol
- diltiazem
- isosorbide dinitrate
- amlodipine

Question 33 [1.00 pt(s)]

What is the target of action of fluoroquinolones:

- the topoisomerases
- ribosomes
- PBP-membrane
- integrases

Question 34 [1.00 pt(s)]

Which antibiotic produces crystalluria?

- Penicillin
- Sulfamethoxazole
- Doxycycline
- Gentamycin

Question 35 [1.00 pt(s)]

Which of the following is NOT a pharmacological action of digitalis?

- positive chronotropic effect
- positive inotropic effect
- increase in renal blood flow
- decrease in preload

Question 36 [1.00 pt(s)]

Zidovudine is a (n):

- antiprotease
- antibacterial
- reverse transcriptase inhibitor
- integrase inhibitor

Question 37 [1.00 pt(s)]

A chronic hypertensive pregnant woman may be treated as a first choice with:

- candesartan
- fosinopril
- methyldopa
- hydralazine

Question 38 [1.00 pt(s)]

Progesterone:

- acts upon membrane receptors
- is never used alone without estrogen
- increases the risk of endometrial cancer
- dominates the luteal phase

Question 39 [1.00 pt(s)]

triphasic contraceptive pills:

- contain 3 active molecules
- release the active ingredients in 3 phases
- contain different hormone concentrations according to the cycle
- are intended for women who smoke

Question 40 [1.00 pt(s)]

A drug that is NOT used as a first line therapy for hypertriglyceridemia is:

- clofibrate
- lovastatin
- niaspan
- cholestyramine

Question 41 [1.00 pt(s)]

Which of these drugs causes enlargement of the gum:

- phenytoin
- ibuprofen
- tramadol
- captopril

Question 42 [1.00 pt(s)]

Ethinylestradiol is:

- an endogenous natural molecule
- is secreted by the embryo

- is metabolized by the liver
- is available in contraceptive pills of 35- 50 mg concentration

Question 43 [1.00 pt(s)]

Losartan is a (n):

- beta-blocker
- ACEI
- angiotensin II receptor antagonist
- hypokalaemic diuretic

Question 44 [1.00 pt(s)]

Atenolol is:

- An ACEI
- A nonselective beta-blocker
- A calcium channel blocker
- More hydrophilic than propranolol

Question 45 [1.00 pt(s)]

Erectile dysfunction may be caused by:

- sildenafil
- alprostadil
- cimetidine
- goserelin

Question 46 [1.00 pt(s)]

Regarding calcium channel blockers:

- Verapamil is not an antiarrhythmic
- Nifedipine is an antiarrhythmic
- amlodipine has a vascular tropism
- Diltiazem is a dihydropyridine

Question 47 [1.00 pt(s)]

Regarding anti-diabetic agents:

- Biguanides are less effective than sulfonamides
- Sulfonamides increase insulin secretion
- Biguanides increase insulin secretion
- Glitazones inhibit alpha-glucosidase

Question 48 [1.00 pt(s)]

Which of the following is the drug of choice for treatment of amebiasis?

- metronidazole
- mebendazole
- iodoquinol
- chloroquine

Question 49 [1.00 pt(s)]

Which molecule can cause lactic acidosis:

- Glibenclamide
- Pioglitazone
- Repaglinide
- Metformin

Question 50 [1.00 pt(s)]

Which of the following viral diseases has no available vaccines?

- gastroenteritis
- common cold
- influenza
- hepatitis A

Question 51 [1.00 pt(s)]

Regarding metformin:

- It is strongly hypoglycemic
- It stimulates SUR1 receptor
- It causes weight gain
- It stimulates glucose utilization by the cells

Question 52 [1.00 pt(s)]

Chronic disseminated candidiasis in stable patients should be primarily treated by:

- griseofulvin
- caspofungin
- fluconazole
- amphotericin B

Question 53 [1.00 pt(s)]

Levodopa:

- Is an anticholinergic

- Is a centrally-acting antidepressant
- Is an antiparkinsonian
- Is transformed into acetylcholine

Question 54 [1.00 pt(s)]

Which of the following is a Leukotriene receptor antagonist:

- Zileutin
- Cromolyn
- Ipratropium
- Montelukast

Question 55 [1.00 pt(s)]

Phenobarbital:

- Has a short half-life
- Is only administered IV
- Is used in neonatal seizures
- Is a prodrug

Question 56 [1.00 pt(s)]

Indicate the drug belonging to proton pump inhibitors:

- Pirenzepine
- Ranitidine
- Omeprazole
- Sodium bicarbonate

Question 57 [1.00 pt(s)]

BNP rises significantly:

- In hypertensive crisis
- In endocarditis
- In stable angina
- In heart failure

Question 58 [1.00 pt(s)]

Which of the following statements is true for oral hypoglycemics?

- Meglitinide is ineffective in regulating postprandial glucose
- Metformin is suitable for obese patients
- Pioglitazone is harmless to the liver
- Acarbose can be used for diabetic patients suffering from gastrointestinal tract disturbances and flatulence

Question 59 [1.00 pt(s)]

Which enzyme level is first elevated in myocardial infarction:

- Troponin-T
- BNP
- LDH
- CK-BB

Question 60 [1.00 pt(s)]

Indicate the specific antidote for benzodiazepines:

- Flumazenil
- Buspirone
- Zolpidem
- Triazolam

Question 61 [1.00 pt(s)]

Which of the following agents is a selective serotonin reuptake inhibitor (SSRI)?

- Lithium
- Imipramine
- Fluoxetine
- Venlafaxine

Question 62 [1.00 pt(s)]

Indicate the drug belonging to antacids:

- Pirenzepine
- Ranitidine
- Omeprazole
- Sodium bicarbonate

Question 63 [1.00 pt(s)]

Which of the following drugs does not belong to the class of mucosal protective agents?

- Misoprostol
- Bismuth subsalicylate
- Sucralfate
- Domperidone

Question 64 [1.00 pt(s)]

NYHA stage III in heart failure is characterized by:

- Symptoms on mild effort
- No symptoms
- Chest Pain
- Night-sweats

Question 65 [1.00 pt(s)]

Indicate a peripheral dopa decarboxylase inhibitor:

- Entacapone
- Clozapine
- Carbidopa
- Selegiline

Question 66 [1.00 pt(s)]

Pyelonephritis.:

- is always asymptomatic
- is a bladder infection
- is accompanied by fever and chills
- is a viral and non-bacterial infection

Question 67 [1.00 pt(s)]

Nitro derivatives are contra-indicated when:

- Systolic blood pressure <90 mmHg
- Diastolic blood pressure is > 140 mmHg
- The person is diabetic
- The person is dyslipidemic

Question 68 [1.00 pt(s)]

Which of the following antiparkinson drugs is used to treat hyperprolactinemia?

- Benztropine
- Bromocriptine
- Amantadine
- Levodopa

Question 69 [1.00 pt(s)]

Among these molecules, which is an inhibitor of glycoprotein GPIIb/IIIa:

- Tirofiban
- Prasugrel

- Reteplase
- Streptokinase

Question 70 [1.00 pt(s)]

Tamoxifen is classified as:

- Antiprogestin
- Antiandrogen
- Antiestrogen
- Androgen

Question 71 [1.00 pt(s)]

A 19-year-old male presents to the emergency room with bacterial meningitis. Which of the following Cephalosporin is likely to be given to this patient?

- Cefazolin
- Cefuroxime axetil
- Ceftriaxone
- Cefoperazone

Question 72 [1.00 pt(s)]

Monitoring the efficacy of a treatment with unfractionated heparin is by:

- INR
- Platelet
- Bleeding time
- PTT

Question 73 [1.00 pt(s)]

The following is indicated for Attention-Deficit Hyperactivity Disorder (ADHD):

- Methylphenidate
- Olanzapine
- Phenytoin
- Amitryptiline

Question 74 [1.00 pt(s)]

Which of these molecules is a direct thrombin inhibitor:

- Hirudin
- Eptifibatide
- Amiodarone
- Furosemide

Question 75 [1.00 pt(s)]

A 37-year-old intravenous drug abuser is admitted for fever and shortness of breath. Multiple blood cultures drawn demonstrate *S. aureus* resistant to methicillin. Other findings were consistent with endocarditis. Which of the following is an appropriate antibiotic in this case?

- Ceftriaxone
- Imipenem
- Cefazolin
- Daptomycin

Question 76 [1.00 pt(s)]

Monitoring of the oral anticoagulant anti-vitamin K treatment is by:

- Vitamin K
- INR
- PTT
- Platelet assay

Question 77 [1.00 pt(s)]

Concerning valproate, which of the following is incorrect?

- It is used for all forms of epilepsy
- It causes thrombocytopenia and hepatotoxicity as side effects
- It can be used safely during pregnancy
- It can be used for the prophylaxis and treatment of manic episodes in patients with bipolar disorder unresponsive to lithium

Question 78 [1.00 pt(s)]

What is the mechanism of action of ciprofloxacin?

- Inhibition of the 30s ribosome
- Inhibition of the 50s ribosome
- Inhibition of RNA synthesis
- Inhibition of DNA gyrase

Question 79 [1.00 pt(s)]

In stable angina crisis, which of these is used:

- Nitroglycerin patch
- Subcutaneous isosorbide dinitrate
- Calcium channel blocker patch
- Sublingual nitroglycerin

Question 80 [1.00 pt(s)]

Which of the following is the drug of choice for a 28-year-old woman with schizoid affective disorder and sleeping difficulty?

- Aripiprazole
- Chlorpromazine
- Haloperidol
- Risperidone

Question 81 [1.00 pt(s)]

The bactericidal antibiotic that interferes with bacterial cell-wall synthesis and that may cause "red mansyndrome" if injected too rapidly is

- Piperacillin
- Vancomycin
- Gentamicin
- Clindamycin

Question 82 [1.00 pt(s)]

Pregabalin is not indicated for:

- Partial onset seizure
- Neuropathic pain
- Fibromyalgia
- Depression

Question 83 [1.00 pt(s)]

Which of the following is a side effect of nitrates:

- Methaemoglobinaemia
- Hypertensive crisis
- Hyperglycemia
- Decrease in HDL

Question 84 [1.00 pt(s)]

The antibiotic that irreversibly inhibits bacterial protein synthesis and whose adverse effects may include ototoxicity and nephrotoxicity is:

- Doxycycline
- Clarithromycin
- Gentamicin
- Clindamycin

Question 85 [1.00 pt(s)]

Which of the following is NOT recommended for motion sickness?

- Scopolamine transdermal patch
- Aprepitant
- Meclizine
- Diphenhydramine

Question 86 [1.00 pt(s)]

The antibiotic whose adverse effects include heartburn, photosensitivity, and possible depression of bonegrowth in young children is:

- Erythromycin
- Tetracycline
- Gentamicin
- Clindamycin

Question 87 [1.00 pt(s)]

DP is a 72 year old man with a documented NSAID-induced ulcer and is H.pylori negative. He must continue the NSAID for osteoarthritis. Which of the following is the recommended medication for ulcer healing and prevention of future ulcers?

- Sucralfate
- Nizatidine
- Aluminum hydroxide
- Pantoprazole

Question 88 [1.00 pt(s)]

Which antifungal drug is matched with its correct mechanism of action?

- Echinocandins inhibit polysaccharide (glucan) synthesis in the cell wall
- Flucytosine binds to the cell membrane
- Fluconazole is an antimetabolite for fungal RNA
- Amphotericin B binds to a cytochrome P450-dependent enzyme

Question 89 [1.00 pt(s)]

Which of the following drugs affecting gastrointestinal function does not cause constipation?

- Anticholinergics
- Magnesium antacids
- Opiates
- Aluminum antacids

Question 90 [1.00 pt(s)]

A high BUN / blood creatinine ratio indicates:

- Hepatic impairment
- Prerenal failure
- A calculus in the urinary tract
- A calculus in the biliary tract

Question 91 [1.00 pt(s)]

A 22-year-old sexually active male presents to his primary care physician with painful urination and urethral discharge. Gram stain of discharge fluid shows gram-negative diplococci. He is given Ceftriaxone for gonococcal infection. What additional medication should he be given?

- Aztreonam
- Doxycycline
- Imipenem/cilastatin
- Nitrofurantoin

Question 92 [1.00 pt(s)]

Products such as psyllium, methylcellulose, and polycarbophil are known as:

- Stimulant laxatives
- Bulk-forming agents
- Cathartics
- Lubricants

Question 93 [1.00 pt(s)]

Benzodiazepines act at a specific receptor site:

- GABAergic
- Serotonergic
- Dopaminergic
- Muscarinic

Question 94 [1.00 pt(s)]

What is the mechanism of action of amphotericin B?

- Binds ergosterol
- Inhibits cell wall synthesis
- Inhibits DNA synthesis
- Inhibits squalene epoxidase

Question 95 [1.00 pt(s)]

The benzodiazepines' action depends on their interaction with which of the following receptors?

- GABA
- Serotonin
- NMDA-glutamate
- Dopamine

Question 96 [1.00 pt(s)]

TG is a 43 year old woman who presents with a 2 week history of epigastric pain and a positive serum antibody for H. pylori. Which of the following would be considered the preferred initial therapy for H. pylori?

- PPI+metronidazole+levofloxacin
- PPI+amoxicillin+levofloxacin
- PPI+amoxicillin+clarithromycin
- PPI+metronidazole+bismuth+tetracycline

Question 97 [1.00 pt(s)]

Which of the following is involved in metronidazole's action?

- Blocking folic acid synthesis
- Disruption of DNA
- Inhibition of ribosomes
- Inhibition of topoisomerase

Question 98 [1.00 pt(s)]

Neuropathic pain responds well to:

- Opiates
- NSAIDs
- Paracetamol
- Antiepileptics

Question 99 [1.00 pt(s)]

An anti parkinsonian agent which acts directly on the dopamine receptor is:

- Levodopa
- Amantadine
- Selegiline
- Bromocriptine

Question 100 [1.00 pt(s)]

Local adverse effects of inhaled corticosteroids include:

- Oral candidiasis

- Hypertension
- Growth retardation
- Hyperglycemia

Question 101 [1.00 pt(s)]

Opioid receptors mostly involved in pain are:

- Mu receptors
- Kappa receptors
- Y receptors
- Omega-3 receptors

Question 102 [1.00 pt(s)]

A 23-year-old woman who underwent an open appendectomy is later found to have a wound infection. A culture grows methicillin-resistant *Staphylococcus aureus* (MRSA). Which of the following antibiotics would be useful in treating this infection?

- Ceftriaxone
- Dicloxacillin
- Vancomycin
- Nafcillin

Question 103 [1.00 pt(s)]

Which of the following medications would be preferred for control of ventricular response in patients with atrial fibrillation and heart failure?

- Diltiazem
- Verapamil
- Digoxin
- Ibutilide

Question 104 [1.00 pt(s)]

A 78-year-old male is to have his teeth extracted. He also has a history of mitral valve stenosis with mild cardiac insufficiency. Which of the following medications would be the most appropriate for prophylaxis prior to his dental procedure?

- Amoxicillin
- Co-trimoxazole
- Imipenem
- Vancomycin

Question 105 [1.00 pt(s)]

Methylphenidate is used in the treatment of:

- Schizophrenia

- Refractory depression
- Attention deficit hyperactivity disorder (ADHD)
- Autism

Question 106 [1.00 pt(s)]

In order to reduce the risk of thromboembolism, a patient on oral contraceptive should be prescribed:

- A combination product with a higher estrogen dose
- A combination product with a higher progestin dose
- A combination product with a lower estrogen dose
- A combination product with a lower progestin dose

Question 107 [1.00 pt(s)]

Bromocriptine has been recently approved for a new indication:

- Migraine
- Diabetes type II
- Heart failure
- Anxiety

Question 108 [1.00 pt(s)]

A woman who has been taking an oral contraceptive (estrogen plus progestin) for several years is diagnosed with epilepsy and started phenytoin. What is the most likely consequence of adding phenytoin?

- Agranulocytosis or aplastic anemia, requiring stopping both drugs immediately
- Breakthrough seizures from increased phenytoin clearance
- Reduced contraceptive efficacy
- Thromboembolism from the estrogen component of the contraceptive

Question 109 [1.00 pt(s)]

The mechanism of antibacterial action of tetracycline involves

- Binding to a component of the 50S ribosomal subunit
- Inhibition of translocase activity
- Blockade of binding of aminoacyl – tRNA to bacterial ribosomes
- Selective inhibition of ribosomal peptidyltransferases

Question 110 [1.00 pt(s)]

A preferred therapeutic regimen in breast cancer is:

- Cyclophosphamide + doxorubicin followed by paclitaxel
- Cisplatin + etoposide

- Melphalan + prednisone
- Cyclophosphamide + dexamethasone + thalidomide

Question 111 [1.00 pt(s)]

Which of the following drugs, administered orally, is most likely to be effective in the treatment of colitis due to C difficile?

- Ampicillin
- Cefazolin
- Clindamycin
- Metronidazole

Question 112 [1.00 pt(s)]

Which of the following statements is correct about metformin?

- Metformin can be used in patients with chronic kidney disease
- Metformin may cause diarrhea when it is initially taken
- Metformin-induced hypoglycemia should be treated with glucose
- Metformin is safely used in decompensated heart failure

Question 113 [1.00 pt(s)]

Which of the following is a common side effect of high dose cytarabine?

- Otitis
- Nephrotoxicity
- Constipation
- Conjunctivitis

Question 114 [1.00 pt(s)]

Which of the following oral glucose lowering agents stimulate insulin secretion and cause hypoglycemia?

- Sulfonylureas
- Biguanides
- DPP-4 inhibitors
- Thiazolidinediones

Question 115 [1.00 pt(s)]

Which of the following drugs may be used to quickly relieve tremor, palpitations, anxiety, and heat intolerance seen in patients with hyperthyroidism?

- Radioactive iodine
- Propylthiouracil
- Methimazole

- Propranolol

Question 116 [1.00 pt(s)]

A 19-year-old male with asthma presents to your pharmacy with oropharyngeal candidiasis (OPC). Which of the following medications is responsible for OPC?

- Albuterol
 Budesonide
 Ipratropium
 Theophylline

Question 117 [1.00 pt(s)]

A female patient taking doxycycline in attempt to treat acne vulgaris should be given all of the following advices EXCEPT:

- Excess intake of this drug can expose you to unnecessary harm and can render your skin flora resistant to treatment
 Stop doxycycline in case pregnancy is anticipated
 The usual dose is 50-100 mg twice per day
 Space doxycycline from food to enhance its absorption

Question 118 [1.00 pt(s)]

Which of the following insulin preparations has a cloudy appearance?

- Detemir
 Regular
 Glargine
 NPH

Question 119 [1.00 pt(s)]

Which of the following antiflatulents is usually added to antacid?

- Alginic acid
 Sucralfate
 Simethicone
 Misoprostol

Question 120 [1.00 pt(s)]

The preferred treatment option for an infant with mild diaper dermatitis is:

- Acyclovir cream
 Nystatin ointment
 Clotrimazole cream
 Zinc oxide paste

Question 121 [1.00 pt(s)]

The most feared adverse effect of Methimazole is:

- Hepatotoxicity
- Agranulocytosis
- Anaphylaxis
- Blurred vision

Question 122 [1.00 pt(s)]

Which of the following is an analgesic and antipyretic drug that lacks an anti-inflammatory action?

- Acetaminophen
- Celecoxib
- Colchicine
- Indomethacin

Question 123 [1.00 pt(s)]

Which of the following is the correct non-prescription dose of loperamide?

- 2mg q 6 hrs
- 2 mg initially, then 1 mg prn
- 2 mg initially, then 1 mg after every loose stool
- 4 mg initially, then 2 mg after every loose stool

Question 124 [1.00 pt(s)]

Metronidazole should not be used with alcohol because of fear of which of the following possible side effect?

- Disulfiram like reaction
- Hypertensive crisis
- Serotonergic syndrome
- Hyponatremia

Question 125 [1.00 pt(s)]

Which drug would be most suitable for the relief of some of the signs and symptoms of encephalopathy in alcoholic patients?

- Esmoprazole
- Lactulose
- Propranolol
- Otreotide

Question 126 [1.00 pt(s)]

Among NSAIDS, aspirin is unique because it

- Irreversibly inhibits its target enzyme
- Prevents episodes of gouty arthritis with long term use
- Reduces fever
- Selectively inhibits the COX-2 pathway

Question 127 [1.00 pt(s)]

A patient with tuberculosis treated with isoniazide develops paresthesias, muscle aches, and unsteadiness. Which of the following vitamins should be given in order to reverse these symptoms?

- Vitamin A
- Vitamin B1
- Vitamin B6
- Vitamin K

Question 128 [1.00 pt(s)]

When counseling on the adequate administration of pantoprazole what would you recommend?

- Take the tablet when needed, when you experience the symptoms
- Take the tablet 30 minutes before breakfast
- Take one tablet after each meal
- Take the tablet any time during the day irrespective of meals

Question 129 [1.00 pt(s)]

Which of the following statements about celecoxib is true?

- It irreversibly acetylates the COX-2 enzyme
- It inhibits both the inducible and constitutive COX-2 enzyme
- It does not produce GI bleeding
- It increases healing of GI ulcers

Question 130 [1.00 pt(s)]

A patient is taking proton pump inhibitor plus bismuth, metronidazole and tetracycline. What is the most likely condition for which this drug combination is being used?

- Antibiotic-associated pseudomembranous colitis
- Irritable bowel syndrome
- Gastric ulcers secondary to Helicobacter pylori
- Gastric ulcer that occurred in response to high dose NSAID therapy for arthritis

Question 131 [1.00 pt(s)]

A 45-year-old male wishes to take a nonsteroidal anti-inflammatory drug and wants

to avoid gastrointestinal side effects. Which one of the following drugs is most appropriate?

- Aspirin
- Celecoxib
- Ibuprofen
- Piroxicam

Question 132 [1.00 pt(s)]

Which one of the following drugs is not useful in dysmenorrhea?

- Aspirin
- Colchicine
- Ibuprofen
- Naproxen

Question 133 [1.00 pt(s)]

A patient admitted to the gastroenterology service is being treated with sulfasalazine. What is the most likely purpose for this drug to be given?

- Antibiotic-associated pseudomembranous colitis
- Echerichia coli-induced diarrhea
- Gastric H. pylori infections
- Inflammatory bowel disease

Question 134 [1.00 pt(s)]

Which of the following laxatives is used to treat acute constipation since it produces a bowel movement within about 30 minutes?

- Psyllium
- Lactulose
- Glycerin
- Docusate

Question 135 [1.00 pt(s)]

What is the mechanism of action of ondansetron?

- Blocking central serotonin (5-HT₃) receptors
- Blocking dopamine receptors
- locking histamine H₁ receptors in the brainstem and inner ear
- Suppressing gastric motility and acid secretion via muscarinic blockade

Question 136 [1.00 pt(s)]

Which of the following medications can be safely used in pregnant patients during the third trimester?

- Acetaminophen
- Nonsteroidal anti-inflammatory drugs
- Warfarin
- Aspirin

Question 137 [1.00 pt(s)]

A pharmacist received a prescription for Alendronate 35 mg once weekly for prevention of osteoporosis with instructions to the patient to take with food and remain upright for at least 30 minutes following ingestion. Which of the following can be used to correct the above prescription?

- Alendronate should be taken at least 30 minutes after a meal, preferably breakfast
- Alendronate should be taken before bedtime
- Patients should lie down for 1 hour following administration of Alendronate
- Alendronate should be taken without food in the early morning

Question 138 [1.00 pt(s)]

Celecoxib is preferred to standard NSAIDs:

- in patients who have cardiac failure
- in patients who are at high risk of developing gastroduodenal ulcer
- when onset of pain relief is required immediately
- in patients with myocardial infarction

Question 139 [1.00 pt(s)]

Morphine is contraindicated in head injury because

- It does not relieve the pain of head injury
- It can raise intracranial tension
- It can raise systolic blood pressure
- It is liable to cause addiction

Question 140 [1.00 pt(s)]

Which of the following is proper nutrition counseling for patients who are being treated with warfarin?

- Avoid all foods containing vitamin K
- Avoid excessive alcohol intake as it decreases the effectiveness of warfarin
- Maintain a consistent dietary vitamin K intake
- Maintain current diet because vitamins and dietary supplements minimally interact with warfarin

Question 141 [1.00 pt(s)]

L.R is a 60 year old man with a history of Atrial Fibrillation, Diabetes Mellitus and Hypertension. The cardiologist would like to start the patient on primary stroke

prevention. His creatinine clearance is around 15ml/min and normal Liver function tests. Which of the following is the most appropriate recommendation?

- Warfarin
- Dabigatran
- Rivaroxaban
- ASA + Clopidogrel

Question 142 [1.00 pt(s)]

A 59 year old male with a previous history of diabetes mellitus and hypertension is admitted to the hospital with an ST elevation myocardial infarction (MI). Which of the following medications should be part of his medical regimen upon discharge?

- Lorazepam
- Bisoprolol
- Ibuprofen
- Furosemide

Question 143 [1.00 pt(s)]

A 42-year-old female who recently lost her husband tells you that she is not sleeping at night. After questioning her further, you determined that she does not have depression or substance abuse. What would you recommend?

- A long acting Benzodiazepine
- A short-acting Benzodiazepine
- Fluoxetine
- Trazodone

Question 144 [1.00 pt(s)]

A 57-year-old male with alcoholic cirrhosis and abdominal ascites presents to the Emergency room with a 3 day history of fever, chills, nausea/vomiting and abdominal pain. Paracentesis was performed and revealed a cloudy ascitic fluid. The ascitic fluid was sent for culture and cytology. The best empirical antibiotic regimen for this patient is:

- Azithromycin
- Cefepime
- Amoxicillin
- Ceftriaxone

Question 145 [1.00 pt(s)]

A 19 year-old pregnant female presents to your pharmacy with symptoms of dysuria, urinary frequency and urgency. Which of the following is the best empirical antibiotic agent for her cystitis?

- Ciprofloxacin
- Sulfamethoxazole/trimethoprim

- Nitrofurantoin
- Vancomycin

Question 146 [1.00 pt(s)]

A 23 year-old male patient who got bitten by his friend's dog 2 days ago. He presents today with a non-healing wound draining purulent material. Which of the following is the most appropriate antimicrobial treatment?

- Amoxicillin/clavulanic acid
- Doxycycline
- Sulfamethoxazole/trimethoprim
- Erythromycin

Question 147 [1.00 pt(s)]

A female presents to the clinic at 19 weeks of gestation complaining of fever, burning sensation upon urination. She is allergic to penicillin. Which of the following antibiotics would you recommend?

- Amoxicillin/Clavulanic acid
- TMP/SMX
- Nitrofurantoin
- Levofloxacin

Question 148 [1.00 pt(s)]

A 29-year old pregnant female has a history of asthma and becomes short of breath when she exercises. What agent would you recommend to prevent this patient's exercise-induced asthma?

- Zileuton
- Albuterol
- Cromolyn
- Formeterol

Question 149 [1.00 pt(s)]

Which of the following side effect is MOST likely to result from the use of Metformin?

- Edema
- Cardiac toxicity
- Gastrointestinal disturbances
- Hyperkalemia

Question 150 [1.00 pt(s)]

What is the effect of prolonged estrogen exposure unopposed by progesterone on the endometrium?

- Metabolic syndrome
- Dysmenorrhea
- Endometrial hyperplasia
- Endometriosis

Question 151 [1.00 pt(s)]

Which of the following classes of medications is MOST likely to cause drug-induced hyperprolactinemia?

- ACE-Inhibitors
- B-blockers
- Oral hypoglycemics
- Antidepressants

Question 152 [1.00 pt(s)]

Which of the following is NOT a rapid acting insulin analog?

- Insulin LisPro
- Insulin Glulisine
- Insulin Glargine
- Insulin Aspart

Question 153 [1.00 pt(s)]

Which statement about fluconazole is accurate?

- Does not penetrate the blood-brain barrier
- Has the least effect of all azoles on hepatic drug metabolism
- Is an inducer of hepatic drug-metabolizing enzymes
- Is highly effective in the treatment of aspergillosis

Question 154 [1.00 pt(s)]

Regarding the clinical use of liposomal formulations of amphotericin B, which statement is accurate?

- They do not affect the infusion-related toxicity
- They are less expensive to use than conventional amphotericin
- They are more effective in fungal infections because they increase tissue uptake of amphotericin B
- They decrease the nephrotoxicity of amphotericin B

Question 155 [1.00 pt(s)]

Which of the following drug-mechanism of action pairs is properly matched?

- Digoxin – inhibits Ca²⁺ channel
- Dobutamine – activates beta 1 adrenergic receptors

- Valsartan – blocks beta 2 adrenergic receptors
- Spironolactone – reduces angiotensin II

Question 156 [1.00 pt(s)]

Lidocaine:

- Is a class III anti-arrhythmic
- Is administered IV
- Is renally eliminated
- Blocks Ca²⁺ currents

Question 157 [1.00 pt(s)]

This antiarrhythmic is associated with potentially fatal pulmonary fibrosis:

- Propranolol
- Mexiletine
- Flecainide
- Amiodarone

Question 158 [1.00 pt(s)]

This beta-lactam is effective against pseudomonas Aeruginosa:

- Carbenicillin
- Ampicillin
- Nafcillin
- Ceftazidime

Question 159 [1.00 pt(s)]

Which of the followings is not an opioid analgesic?

- Morphine sulfate
- Oxycodone
- Diclofenac
- Fentanyl

Question 160 [1.00 pt(s)]

Methadone is often used in drug treatment programs for narcotic addiction. What is the classification of this medication?

- Non-steroidal anti-inflammatory
- Opioid analgesic
- Antimigrainous agent
- Agent for gout

Question 161 [1.00 pt(s)]

What is the classification of olanzapine?

- Antidepressant
- Antipsychotic
- Antiepileptic
- Hypnotic

Question 162 [1.00 pt(s)]

What is the mechanism of action of ramelteon?

- Catechol-O-methyl transferase (COMT) Inhibitor
- Melatonin receptor agonist
- Antipsychotic drug
- Selective serotonin reuptake inhibitor (SSRI)

Question 163 [1.00 pt(s)]

Which one of the following drugs does NOT bind to plasma protein to a significant extent?

- ketoprofen
- allopurinol
- propranolol
- warfarin

Question 164 [1.00 pt(s)]

A 53-year-old woman ingests half of a bottle of aspirin tablets and later presents to the emergency department with gastrointestinal pain and vomiting. The treatment of this patient would include administration of:

- Sodium bicarbonate because it increases ionization of salicylate in the urine
- Sodium bicarbonate because it decreases ionization of salicylate in the urine
- Ascorbic acid because it increases ionization of salicylate in the urine
- Ascorbic acid because it decreases ionization of salicylate in the urine

Question 165 [1.00 pt(s)]

A 33-year-old woman is brought to the emergency department after ingesting a large but unknown quantity of acetaminophen. Use of N-acetylcysteine in the treatment of this patient is based on the goal of:

- Inhibiting drug absorption
- Increasing drug elimination
- Inactivating a toxic metabolite
- Decreasing target receptor binding

Question 166 [1.00 pt(s)]

Topical ocular administration of either phenylephrine or tropicamide may cause

- Cycloplegia
- Miosis
- Mydriasis
- Cycloplegia and Miosis

Question 167 [1.00 pt(s)]

Gastrointestinal decontamination efficacy varies based on:

- Time of chemical ingestion
- Response to the ingested chemical
- Toxicant serum levels
- Metabolism of toxicants

Question 168 [1.00 pt(s)]

Ipecac is contraindicated in patients:

- With a gag reflex
- Expected to become unresponsive within next four hours
- Debilitated, pregnant, and elderly
- Cardiovascular patients

Question 169 [1.00 pt(s)]

Decrease absorption of toxin include:

- Diuresis
- Manipulation of urine pH
- Activated Charcoal
- Hemodialysis

Question 170 [1.00 pt(s)]

The antidote that is used in the management of the intoxication by Opiates is :

- Oxygen
- Naloxone
- Physostigmine
- Atropine

Question 171 [1.00 pt(s)]

Narcotic toxidrome include:

- Salivation
- Lacrimation
- Hypertension
- Respiratory depression

Question 172 [1.00 pt(s)]

Which one of the following drugs is most likely to cause metabolic acidosis?

- Theophylline
- Nicotine
- Levothyroxine
- Acetazolamide

Question 173 [1.00 pt(s)]

Which of the followings is NOT a known adverse effect of cyclosporine?

- Hirsutism
- Nephrotoxicity
- Gingival hyperplasia
- Oral ulceration

Question 174 [1.00 pt(s)]

Which of the following drugs will not require renal adjustment in patients with declined kidney functions?

- Allopurinol
- Atorvastatin
- Mepiridine
- Linezolid

Question 175 [1.00 pt(s)]

Which of the following drugs will cause acute tubular necrosis?

- Cisplatin
- Methotrexate
- Heroin
- Gold

Question 176 [1.00 pt(s)]

Which of the following would be most beneficial in a patient with type 1 diabetes and microalbuminuria to delay progression of Chronic Kidney Disease?

- ACE inhibitor and loop diuretic
- ACE inhibitor &/or ARB

- ARB and loop diuretic
- ACE Inhibitor, ARB and loop diuretic

Question 177 [1.00 pt(s)]

Which medication (s) is/are classified as calcineurin inhibitor?

- Sirolimus and cyclosporin
- Tacrolimus and cyclosporin
- Sirolimus and tacrolimus
- Sirolimus, tacrolimus and cyclosporin

Question 178 [1.00 pt(s)]

Which of the following is NOT an activated Vitamin D analogue?

- Calcitriol
- Ergocalciferol
- Paricalcitol
- Alfacalcidol

Question 179 [1.00 pt(s)]

What is the most common reported adverse reactions with epoetin alfa and darbepoetin alfa?

- Nausea
- Constipation
- Hypertension
- Anaphylaxis

Question 180 [1.00 pt(s)]

Which one of the following should be monitored if a patient with human immunodeficiency virus (HIV) is receiving fosamprenavir /ritonavir based regimen?

- Peripheral neuropathy
- Drug interactions with drugs metabolized by CYP1A2
- Hyperglycemia, fat redistribution, and lipid abnormalities
- Nephrolithiasis

Question 181 [1.00 pt(s)]

BK is a 29-year-old HIV-positive patient with CD4 count of 75/mm³. He received the diagnosis of cryptococcal meningitis and is successfully treated. Which of the following is the best follow-up therapy for this patient?

- Amphotericin B desoxycholate
- Caspofungin
- Terbinafine

- Fluconazole

Question 182 [1.00 pt(s)]

Which of the following is the main side effect of ethambutol?

- Discolored urine
- Optic neuritis
- Osteoporosis
- Neutropenia

Question 183 [1.00 pt(s)]

A 45 year old man asks his physician for a prescription for sildenafil to improve his sexual performance. Because of risks from a serious drug interaction, this drug should not be prescribed with:

- Angiotensin-converting enzyme inhibitors
- B-adrenergic blockers
- Nitrovasodilators
- Thiazide diuretics

Question 184 [1.00 pt(s)]

What is the mechanism that leads to the beneficial effects of alteplase?

- Blocking platelet ADP receptors
- Inhibiting platelet thromboxane production
- Inhibiting synthesis or activation of vitamin K-dependent coagulation factors
- Promoting conversion of plasminogen to plasmin

Question 185 [1.00 pt(s)]

Which of the following is NOT a potential adverse effect of clozapine?

- weight gain
- pseudoparkinsonism
- sedation
- urinary retention

Question 186 [1.00 pt(s)]

Which of the following atypical antipsychotics would be the least likely to cause extrapyramidal symptoms?

- risperidone
- olanzapine
- quetiapine
- Aripiprazole

Question 187 [1.00 pt(s)]

Which of the following statements best describes the mechanism by which bromocriptine produces its desired effects?

- Blockade of estrogen receptors
- Increasing synthesis of follicle-stimulating hormone (FSH)
- Inhibition of prolactin release
- Stimulation of ovarian estrogen and progesterin synthesis

Question 188 [1.00 pt(s)]

A 23 year old woman desires a combined oral contraceptive for pregnancy protection. Which of the following patient factors would lead a health professional to recommend an alternative form of contraception?

- Evidence of hirsutism
- History of gastrointestinal reflux disease and is currently taking omeprazole
- History of migraine with aura
- History of pelvic inflammatory disease

Question 189 [1.00 pt(s)]

Blood glucose levels may be increased by the use of:

- Protein consumption
- Biguanides
- Glucocorticoids
- Angiotensin-converting enzyme (ACE) inhibitors

Question 190 [1.00 pt(s)]

Amiodarone causes thyroid abnormalities mainly due to:

- Inhibition of thyroid peroxidase
- Blockage of peripheral thyroxine receptors
- its large iodine content
- Induction of the catabolism of T3

Question 191 [1.00 pt(s)]

Which of the following is NOT used in pharmacotherapy of benign prostatic hyperplasia?

- oxybutynin
- prazosin
- goserelin
- dutasteride

Question 192 [1.00 pt(s)]

A patient who has received sertraline optimal effective dose for 2 weeks for the treatment of her first episode of major depression complains that the medication is

not working and would like to be switched to another agent . What is the appropriate recommendation?

- Call the physician to recommend switching the patient to MAOIs
- Encourage the patient to continue with the current regimen, and inform him or her that it may take 4-6 weeks before the full response is evident
- Recommend adding lithium to augment the current regimen.
- Recommend combining with mirtazapine.

Question 193 [1.00 pt(s)]

Which of the following mood stabilizers would be most appropriate in liver disease?

- lithium
- valproic acid
- carbamazepine
- lamotrigine

Question 194 [1.00 pt(s)]

A 36-year –old woman presents with a 2-month history of depressed mood. This is the patient's first episode of major depression. Which of the following antidepressants would be most appropriate in the treatment of this patient?

- nortriptyline
- escitalopram
- phenelzine
- mirtazapine

Question 195 [1.00 pt(s)]

Which of the following glucocorticoids produces the least sodium retention?

- Hydrocortisone
- Dexamethasone
- Prednisolone
- Fludrocortisone

Question 196 [1.00 pt(s)]

A patient with his first major depression episode should receive antidepressant therapy for at least----- after remission

- 2 weeks.
- 6 weeks.
- 2 months
- 6– 12 months

Question 197 [1.00 pt(s)]

Which of the following drugs has a risk of jaw necrosis?

- Calcium carbonate
- Bisphosphonate
- Raloxifen
- Omeprazole

Question 198 [1.00 pt(s)]

Which of the following classes of medications is most likely to cause hyperprolactinemia?

- Beta-blockers
- Antidepressants
- Antihistamines
- Oral contraceptives

Question 199 [1.00 pt(s)]

For patients who have been on long-term therapy with a glucocorticoid and who wish to discontinue the drug, gradual tapering of glucocorticoid is needed to allow recovery of:

- Hematopoiesis in the bone marrow
- Normal osteoblast function
- The control by vasopressin of water excretion
- The hypothalamic-pituitary-adrenal system

Question 200 [1.00 pt(s)]

The intravenous general anesthetic which produces dissociative anesthesia is:

- Midazolam
- Ketamine
- Fentanyl
- Thiopental

Question 201 [1.00 pt(s)]

Indicate a selective catechol-O-methyltransferase (COMT) inhibitor, which increases central uptake of levodopa:

- Carbidopa
- Benzhexol
- Entacapone
- Selegiline

Question 202 [1.00 pt(s)]

Which of the following statements is incorrect for amitriptyline?

- It inhibits serotonin reuptake
- It inhibits noradrenaline reuptake
- It is associated with dry mouth and urine retention
- It is used for the treatment of anxiety

Question 203 [1.00 pt(s)]

Continued vasomotor symptoms in a 52-year-old postmenopausal woman receiving 0.3 mg of oral conjugated equine estrogens can be managed by:

- Changing to an equivalent transdermal estrogen regimen
- Changing to a selective estrogen-receptor modulator
- Increasing the daily estrogen dose
- Decreasing the daily estrogen dose

Question 204 [1.00 pt(s)]

A person with diabetes mellitus has microalbuminuria. The correct intervention at this time is to:

- Start hydrochlorothiazide, only if hypertensive
- Start ramipril, only if hypertensive
- Start ramipril, even if not hypertensive
- Start Valsartan, only if hypertensive

Question 205 [1.00 pt(s)]

Why is methimazole the antithyroid therapy of choice in most patients with Graves' disease?

- It has a shorter half-life than propylthiouracil.
- It is renally excreted, so no adjustment is needed for liver disease.
- It causes fewer adverse effects such as hepatotoxicity
- It blocks the conversion of T4 to T3.

Question 206 [1.00 pt(s)]

Which of the following antipsychotic medications is the best initial treatment for a patient suffering from diabetes mellitus and schizophrenia?

- aripiprazole
- haloperidol
- thioridazine
- clozapine

Question 207 [1.00 pt(s)]

A patient took a potentially lethal overdose of aspirin. What drug would be a helpful, if not lifesaving, adjunct to manage this severe aspirin poisoning?

- Acetaminophen
- N-acetylcysteine
- Phenobarbital
- Sodium bicarbonate

Question 208 [1.00 pt(s)]

In overall assessment, which non-steroidal anti-inflammatory drug has been considered to be the safest

- Aspirin
- Indomethacin
- Ibuprofen
- Piroxicam

Question 209 [1.00 pt(s)]

A patient presents in the emergency department with an overdose of a drug. The physician knows what the drug is, and so orders appropriate "symptomatic and supportive care," plus multiple doses of N-acetylcysteine. Upon which drug did the patient overdose?

- Acetaminophen
- Aspirin
- Colchicine
- Diphenhydramine

Question 210 [1.00 pt(s)]

Which of the following may best relieve occasional dysmenorrhea?

- Over the counter codeine
- Naproxen
- Acetaminophen
- Vitamin E

Question 211 [1.00 pt(s)]

A decrease in the formation of angiotensin II and an increase in the concentration of bradykinin explain the vasodilator action of:

- Alpha-blockers
- Beta-blockers
- Angiotensin-converting enzyme inhibitors
- Angiotensin receptor blockers

Question 212 [1.00 pt(s)]

Which of the following is an arterial vasodilator with a direct effect to decrease heart rate and cardiac contractility?

- Diltiazem
- Propranolol
- Prazosin
- Captopril

Question 213 [1.00 pt(s)]

What is the potential adverse effect of monotherapy with thiazide diuretics after several months of treatment?

- Hyperkalemia
- Elevated triglyceride and hypoglycemia
- Volume depletion and renal failure
- Compensatory volume retention and hypokalemia

Question 214 [1.00 pt(s)]

Which of the following diuretic would be most useful in the acute treatment of comatose patient with brain injury and cerebral edema?

- Acetazolamide
- Ethacrynic acid
- Furosemide
- Mannitol

Question 215 [1.00 pt(s)]

Which antihypertensive therapy should be avoided in type-1 diabetes mellitus?

- ACE inhibitors
- High dose diuretics
- centrally-acting agents
- calcium channel blockers

Question 216 [1.00 pt(s)]

How do ACE inhibitors improve cardiovascular hemodynamics?

- ACE inhibitors prevent pregnancy associated cardiomyopathy
- ACE inhibitors increase bradykinin levels to inhibit tachyarrhythmia
- ACE inhibitors antagonize the vasoconstrictive effects of angiotensin at its receptors
- ACE inhibitors cause arterial and venous dilation and limit the development of post myocardial infarction cardiomyopathy

Question 217 [1.00 pt(s)]

Loop diuretics effects on ionic excretion include all of the following EXCEPT:

- Increased sodium excretion
- Decreased magnesium loss
- Increased calcium loss
- Increased potassium loss

Question 218 [1.00 pt(s)]

Mechanism of action of Thiazide diuretics is:

- Inhibition of the NaK2Cl transporter
- Inhibition of carbonic anhydrase
- Inhibition of the NaCl cotransporter in the distal tubule
- An antagonist of aldosterone

Question 219 [1.00 pt(s)]

Mechanism of action of Acetazolamide is:

- Inhibits the NaK2Cl transporter
- Inhibits carbonic anhydrase
- Inhibits the NaCl cotransporter in the distal tubule
- An antagonist of aldosterone

Question 220 [1.00 pt(s)]

Mechanism of action of Furosemide is:

- Inhibits the NaK2Cl transporter
- Inhibits carbonic anhydrase
- Inhibits the NaCl cotransporter in the distal tubule
- An antagonist of aldosterone

Question 221 [1.00 pt(s)]

Principally, nasal decongestants belong in which of the following drug groups?

- Alpha1 agonists
- Antihistamines
- Narcotics
- Antimuscarinic drugs

Question 222 [1.00 pt(s)]

The use of nasal decongestants is contraindicated when a person is taking which of the following drugs?

- Antihypertensive drugs
- MAO inhibitors
- Insulin

- Nonsteroidal anti-inflammatory analgesic drugs

Question 223 [1.00 pt(s)]

Ototoxicity is a unique side effect of which group of diuretics?

- Loop diuretics
 Thiazide diuretics
 Potassium sparing diuretics
 Osmotic diuretics

Question 224 [1.00 pt(s)]

Which class of diuretics is useful in reducing intraocular pressure during acute attacks of Glaucoma?

- Loop diuretics
 Thiazide diuretics
 Potassium sparing diuretics
 Osmotic diuretics

Question 225 [1.00 pt(s)]

Which of the following laxatives is contraindicated in patients with intestinal obstruction or perforation?

- Fleet enema
 Glycerin suppositories
 Lactulose
 Psyllium

Question 226 [1.00 pt(s)]

Among the following, the laxative with highest risk of abuse is:

- Macrogol
 Senna
 Carboxymethylcellulose
 Magnesium salts

Question 227 [1.00 pt(s)]

Which of the following is classified as a fibrinolytic?

- Enoxaparin
 Warfarin
 Ticlopidine
 Alteplase

Question 228 [1.00 pt(s)]

How do sildenafil and organic nitrates interact to precipitate severe hypotension?

- Both agents promote vasodilation
- Both agents reduce myocardial contractility
- Both agents divert systemic blood flow to the corpus cavernosum
- Both agents decrease the normal sympathetic tone of the systemic vasculature

Question 229 [1.00 pt(s)]

What accounts for the efficacy of Eptifibatide in inhibiting platelet aggregation?

- Eptifibatide enhances endothelial cell production of prostacyclin, which inhibits platelet aggregation.
- Eptifibatide is an antagonist at the platelet GPIIb/IIIa receptor, preventing fibrinogen binding to platelets.
- Eptifibatide is a mouse-human monoclonal anti-body directed against platelet-derived thromboxane, preventing its activation of platelet aggregation.
- Eptifibatide catalyzes the degradation of fibrinogen, preventing its binding to activated platelets.

Question 230 [1.00 pt(s)]

A 32-year-old woman with hypertension wishes to become pregnant. Her physician informs her that she will have to switch to another antihypertensive drug. Which of the following drugs is absolutely contraindicated in pregnancy?

- Atenolol
- Captopril
- Prazosin
- Propranolol

Question 231 [1.00 pt(s)]

A 73 year old man with a history of falling at home is found to have hypertension. Which of the following drugs is most likely to cause postural hypotension and thus an increased risk of falls?

- ACE Inhibitors
- Alpha blockers
- Beta 1 blockers
- Angiotensin receptor blockers

Question 232 [1.00 pt(s)]

Verapamil is associated with which one of the following?

- Hypoglycemia
- Decreased PR interval
- Constipation

- Tachycardia

Question 233 [1.00 pt(s)]

Which type of therapy would be most appropriate for a 58-year-old female with type 2 diabetes and total cholesterol 210 mg/dL, HDL cholesterol 52 mg/dL, triglycerides 958 mg/dL, and LDL cholesterol 131 mg/dL?

- Fenofibrate 160 mg daily
 Atorvastatin 40 mg daily
 Pravastatin 20 mg daily
 Cholestyramine twice daily

Question 234 [1.00 pt(s)]

A 38-year-old woman with hyperlipidemia presents to the primary care clinic with worsening muscle aches. Her total cholesterol was 268 mg/dL, her LDL was 167 mg/dL, her HDL was 42 mg/dL, and her triglyceride was 254 mg/dL during her last visit. The decision was made to add another lipid-lowering medication to her simvastatin. She never had muscle aches before and is wondering if the new medication is causing her new pain. What medication was most likely added to her simvastatin?

- Cholestyramine
 Colestipol
 Ezetimibe
 Gemfibrozil

Question 235 [1.00 pt(s)]

Propranolol should not be prescribed for a patient of angina pectoris who is already receiving

- Nifedipine
 Felodipine
 Verapamil
 Isosorbide mononitrate

Question 236 [1.00 pt(s)]

In the treatment of cardiac shock, the drug of choice is

- Dopamine
 Propranolol
 Phenoxybenzamine
 Metaraminol

Question 237 [1.00 pt(s)]

Which drug besides lowering blood pressure arrests and even reverses cardiac hypertrophy

- ACE inhibitors
- Betablockers
- Calcium channel blockers
- Diuretics

Question 238 [1.00 pt(s)]

A patient undergoing cancer chemotherapy is vomiting frequently. A drug that might help in this situation is:

- Bromocriptine
- Cimetidine
- Loratadine
- Ondansetron

Question 239 [1.00 pt(s)]

In the emergency department, the preferred first-line therapy for asthma exacerbation is:

- Theophyllin
- β -agonist
- Corticosteroid
- Antihistamine

Question 240 [1.00 pt(s)]

The common and dose related side effect of salbutamol is

- Decrease in blood pressure
- Muscle tremor
- Hyperglycaemia
- Central nervous system stimulation

Question 241 [1.00 pt(s)]

Which of the following anti diarrheal OTC drug is related chemically to the strong opioid-analgesic meperidine?

- Aluminum hydroxide
- Diphenoxylate
- Loperamide
- Magnesium hydroxide

Question 242 [1.00 pt(s)]

Which of the following counseling information about calcium supplements is TRUE?

- You can take the supplements with other drugs since there is no interaction
- Calcium supplements should be taken in divided doses not as one dose to increase absorption
- You can take the supplements with fibers concurrently since there is no interaction
- Common adverse effects include: diarrhea

Question 243 [1.00 pt(s)]

Which of the followings is counseling information about the intermediate acting insulin?

- Shake well the vial before use
- Inject insulin at any time throughout the day
- Inject insulin as intravenous injection only
- Keep the vials in their pockets

Question 244 [1.00 pt(s)]

Which of the following statement regarding Vitamin D supplements is TRUE?

- There is only one form of vitamin D available
- Vitamin D cannot be taken with Calcium
- Given only to elderly patients
- Given for osteoporosis prevention and treatment

Question 245 [1.00 pt(s)]

Which of the following statements regarding sulfonylurea is CORRECT?

- Available in parenteral formulation
- Might induce the risk of hypoglycemia and weight gain
- Must be taken at bed time
- Cannot be combined with other therapies

Question 246 [1.00 pt(s)]

A talented 21-year-old violinist's musical career is in trouble because he becomes acutely anxious, suffering from tremors and palpitations, whenever he is asked to play in front of an audience. What medication can help him in reducing his symptoms?

- Desipramine
- Citalopram
- Risperidone
- Propranolol

Question 247 [1.00 pt(s)]

A 56-year-old woman who was diagnosed with paranoid schizophrenia in her early twenties has received daily doses of various typical antipsychotics for many years. For the past 2 years, she has had symptoms of tardive dyskinesia. Which of the following actions should be taken next?

- Start the patient on benztropine
- Start the patient on propranolol
- Start the patient on diphenhydramine
- Switch the patient to clozapine

Question 248 [1.00 pt(s)]

A 72-year-old man develops acute urinary retention and blurred vision after taking an antidepressant for 5 days. Which of the following medications is most likely to cause such side effects?

- Venlafaxine
- Bupropion
- Escitalopram
- Amitriptyline

Question 249 [1.00 pt(s)]

Which of the following drugs can cause nausea & vomiting if ingested with alcohol?

- Disulfiram
- Methadone
- Lorazepam
- Naltrexone

Question 250 [1.00 pt(s)]

TM is a 78 year old, newly diagnosed Alzheimer's disease patient. His clinician explained to his family that they need to give the patient a medication that will increase acetylcholine in the brain to improve his cognition. Which of the following medications might have been prescribed for TM?

- Donepezil
- Clozapine
- Glatiramer Acetate
- Desipramine

Question 251 [1.00 pt(s)]

A 42-year-old woman, with a history of epilepsy is being treated with an antiepileptic drug for focal seizures since 8 years. She is presenting to your pharmacy today because she is experiencing an increase in the size of her jaw over the past years and production of hair over her face. Which of the following might be the drug that this lady has been taking?

- Valproic Acid
- Phenytoin
- Gabapentin
- Lamotrigine

Question 252 [1.00 pt(s)]

A depressed 52-year-old woman presents with a worsening of depression after she was informed she has diabetes, and she has a new onset of painful neuropathy in her legs. Furthermore, she is postmenopausal and suffering immensely from vasomotor hot flashes. What treatment may best target her psychiatric and medical comorbidities?

- Escitalopram
- Duloxetine
- Trazodone
- Vilazodone

Question 253 [1.00 pt(s)]

TE, A 43-year-old woman, who works as a teacher at a school, presents to her doctor complaining of difficulties with sleep initiation. She now has many thoughts at night and is "unable to shut her mind off." She has been diagnosed with insomnia. Which of the following prescription medication is indicated for her condition?

- Zolpidem
- Butalbital
- Valerian
- Diphenhydramine

Question 254 [1.00 pt(s)]

Which of the following medication is the most appropriate treatment for a 10 year old boy by diagnosed with absence seizure?

- Phenytoin
- Carbamazepine
- Ethosuximide
- Clobazam

Question 255 [1.00 pt(s)]

Which of the following is NOT an antitussive?

- Codeine
- Butamirate
- Dextromethorphan
- Guaifenesin

Question 256 [1.00 pt(s)]

Which of the following is classified as a pediculicide?

- Amoxicillin
- Lindane

- Fluconazole
- Benzyl alcohol

Question 257 [1.00 pt(s)]

Which of the following is NOT a component of an oral rehydration solution?

- Sodium
- Chloride
- Calcium
- Potassium

Question 258 [1.00 pt(s)]

Which of the following drugs is not considered an ophthalmic decongestant?

- Naphazoline
- Tetrahydrozoline
- Oxymetazoline
- Antazoline

Question 259 [1.00 pt(s)]

Which of the following is used safely and effectively for excessive impacted cerumen in the middle ear?

- Neomycin
- Carbamide peroxide
- Docusate calcium
- Castor oil

Question 260 [1.00 pt(s)]

Which of the following antiplatelet would you consider recommending for patients with angina?

- Warfarin
- Acenocoumarol
- Heparin
- Aspirin

Question 261 [1.00 pt(s)]

Which of the following would you recommend for the treatment of hypertension in a 55 year old male with chronic kidney disease having a CrCl of 50 ml/min?

- ACE inhibitor
- Thiazide diuretic
- Beta Blocker

- Calcium channel blocker

Question 262 [1.00 pt(s)]

Which of the following would you consider recommending for a patient when you anticipate a decrease of 55% in LDL cholesterol

- Ezetimibe
 Cholestyramine
 Rosuvastatin
 Niacin

Question 263 [1.00 pt(s)]

In counseling patients on the proper use of the nicotine gum, what would be the most appropriate advice?

- Use the gum with food and beverages
 Continue chewing a piece of gum until the craving for cigarettes stops
 Chew the gum slowly until a peppery or minty taste emerges
 Swallow the gum for nicotine to be absorbed

Question 264 [1.00 pt(s)]

Which of the following medications can you recommend for a 7 years old child with asthma knowing that the mother prefers a medication that can be administered orally?

- Budesonide
 Fluticasone
 Montelukast
 Cromolyn

Question 265 [1.00 pt(s)]

Which of the following would you recommend in a patient with severe GERD?

- Calcium carbonate
 Esomeprazole
 Cimetidine
 Sucralfate

Question 266 [1.00 pt(s)]

Which of the following would you recommend in non-infective acute diarrhea?

- Cholestyramine
 Loperamide
 Psyllium
 Diphenoxylate

Question 267 [1.00 pt(s)]

ACE inhibitors and ARBs treat hyper-tension in a similar fashion and have similar side effects. Which of the following is a side effect of ACE inhibitors only?

- Dizziness
- Dry cough
- Erectile dysfunction
- Hypotension

Question 268 [1.00 pt(s)]

Which of the following is a calcium channel blocker that works primarily on vascular smooth muscle?

- Amlodipine
- Diltiazem
- Losartan
- Nitroprusside

Question 269 [1.00 pt(s)]

What is the mechanism of action of isosorbide dinitrate?

- Blocks the activity of angiotensin II at its receptor
- Causes excess fluid elimination
- Increases cardiac inotropy
- Reduces preload

Question 270 [1.00 pt(s)]

A 57-year-old man with congestive heart failure and hypertension is maintained on digoxin and diuretic. Which of the following blood indicators is most important to follow in this patient to avoid severe side effects?

- Bicarbonate
- Chloride
- Glucose
- Potassium

Question 271 [1.00 pt(s)]

A 61-year-old man with hypertension develops atrial fibrillation. His medications include simvastatin and metoprolol. His physician prescribes an anticoagulant for clot prophylaxis, which directly inhibits thrombin. Which drug is this?

- Aspirin
- Dabigatran
- Heparin

- Warfarin

Question 272 [1.00 pt(s)]

A 58-year-old man presents to the emergency department (ED) after experiencing a sudden loss of motor control on his left side accompanied by aphasia. By the time he reached the ED, his symptoms had already resolved. He is given a prescription for a drug that binds platelet ADP receptors to prevent their aggregation. Which drug is this?

- Clopidogrel
 Enoxaparin
 Eptifibatide
 Tirofiban

Question 273 [1.00 pt(s)]

The mechanism of action of furosemide is in which of the following locations?

- Ascending limb of the loop of Henle
 Collecting duct
 Distal tubule
 Proximal tubule

Question 274 [1.00 pt(s)]

What is the mechanism of action of alteplase?

- Binds to glycoprotein receptor IIb/IIIa
 Blocks ADP receptors
 Converts plasminogen to plasmin
 Inhibits COX-1 and COX-2

Question 275 [1.00 pt(s)]

A 56-year-old man presents to his primary care physician complaining of difficulty urinating. Digital rectal exam reveals an enlarged prostate. The patient is started on terazosin, after which his symptoms improve dramatically. Which of the following side effects he is most likely to experience?

- Diarrhea
 Dizziness
 Flatulence
 Headache

Question 276 [1.00 pt(s)]

What is the mechanism of action of Spironolactone?

- Aldosterone receptor antagonist

- Carbonic anhydrase inhibitor
- Inhibits NaCl reabsorption
- Inhibits Na⁺/K⁺/2Cl⁻ cotransport

Question 277 [1.00 pt(s)]

How does digoxin help in heart failure?

- Blocks the activity of angiotensin II at its receptor
- Causes excess fluid elimination
- Increases cardiac inotropy
- Reduces preload

Question 278 [1.00 pt(s)]

What is the mechanism of action of prazosin?

- Antagonizes alpha2-adrenergic receptors
- Inhibits 5-alpha-reductase
- Inhibits testosterone synthesis
- Relaxes prostatic smooth muscle

Question 279 [1.00 pt(s)]

Which of the following drugs blocks de novo cholesterol synthesis in hepatocytes?

- Cholestyramine
- Colesevelam
- Ezetimibe
- Rosuvastatin

Question 280 [1.00 pt(s)]

A 37-year-old woman with hyperlipidemia is taking a drug to lower her triglyceride and blood cholesterol levels. She is considering stopping her therapy, however, because of a red, itchy rash on her face and neck that occurs following some doses. Which drug is she taking?

- Atorvastatin
- Fenofibrate
- Gemfibrozil
- Nicotinic acid

Question 281 [1.00 pt(s)]

A 43-year-old man with dyslipidemia comes to the clinic for a routine checkup. He currently takes Atorvastatin but is not achieving his target lipid profile. The physician prescribes Colesevelam to help. Which of the following changes is expected as a result of this new therapy?

- Decreased HDL
- Decreased triglycerides
- Hyperglycemia
- Increased triglycerides

Question 282 [1.00 pt(s)]

What is the mechanism of action of glimepiride?

- Decreased glucagon release
- Increased insulin release
- Increased insulin sensitivity in peripheral tissues
- Inhibits intestinal brush border enzymes

Question 283 [1.00 pt(s)]

Which of the following drugs blocks brush border enzymes to inhibit intestinal absorption of cholesterol?

- Cholestyramine
- Colesevelam
- Rosuvastatin
- Ezetimibe

Question 284 [1.00 pt(s)]

A 43-year-old woman with Type-2 diabetes has been taking insulin with meals as well as metformin. Her blood glucose remains poorly controlled. Her doctor prescribes an additional drug, which is an analog of an endogenous peptide that enhances insulin secretion. What drug is this?

- Exenatide
- Glipizide
- Miglitol
- Rosiglitazone

Question 285 [1.00 pt(s)]

A 57-year-old man with hyperlipidemia presents to the emergency department with severe pain in his first right toe. The pain is a 10/10 and worse with any contact. Joint aspiration confirms gout. He had an episode of gout about 10 years ago. What medication used to treat his hyperlipidemia may have led to his gout flare?

- Cholestyramine
- Ezetimibe
- Gemfibrozil
- Niacin

Question 286 [1.00 pt(s)]

Which of the following drugs prevents acid secretion by antagonizing a receptor?

- Aluminum hydroxide
- Fexofenadine
- Omeprazole
- Ranitidine

Question 287 [1.00 pt(s)]

A 33-year-old woman who is obese complains of post-prandial, burning chest pain. Her physician prescribes pantoprazole. Pantoprazole may impair absorption of which of the following nutrients?

- Vitamin B12
- Vitamin E
- Vitamin A
- Vitamin D

Question 288 [1.00 pt(s)]

A 26-year-old woman at 33 weeks gestation presents to the emergency department with pain and swelling in her right calf. A duplex of the right calf confirms the presence of a deep vein thrombosis (DVT). What is the most appropriate treatment for the rest of her pregnancy?

- Abciximab
- Aspirin
- Heparin
- Warfarin

Question 289 [1.00 pt(s)]

Which of the following drugs would decrease the amount of asthma attacks by preventing an arachidonic acid derivative from binding to its receptor?

- Aspirin
- Celecoxib
- Ipratropium
- Montelukast

Question 290 [1.00 pt(s)]

A 15-year-old female presents to her primary care physician complaining of runny nose and itchy eyes. She said that she first had these symptoms during the spring a few years ago, but each year, they have been bothering her more. Which of the following drugs would prevent the release of the main chemical mediator in her case?

- Cromolyn sodium
- Diphenhydramine
- Ranitidine
- Theophylline

Question 291 [1.00 pt(s)]

A 33-year-old man with a history of asthma comes into the emergency department after getting stung by a bee. The treating physician wants to give epinephrine subcutaneously. Which of the following contra-indications to this medication is noted?

- Diabetes mellitus
- Narrow-angle glaucoma
- Pulmonary failure
- Thyroid disease

Question 292 [1.00 pt(s)]

JG is a patient with an immediate allergic reaction to ticarcillin/clavulanate. Select the antimicrobial that JG may take without risk of allergic reaction.

- Piperacillin/tazobactam
- Amoxicillin/clavulanate
- Ceftriaxone
- Aztreonam

Question 293 [1.00 pt(s)]

Which of the following carbapenem antibiotics does not have coverage against *P. aeruginosa*?

- Ertapenem
- Doripenem
- Imipenem-cilastatin
- Meropenem

Question 294 [1.00 pt(s)]

Which agent is recommended for a 25-year old man with suspected Community acquired pneumonia (CAP) who completed a 5 day course of Clarithromycin for suspected CAP 6 weeks ago?

- Clarithromycin 1,000 mg/day po
- Levofloxacin 750 mg/day po
- Piperacillin-tazobactam 4.5 g IV q6h
- Doxycycline 100 mg po bid

Question 295 [1.00 pt(s)]

Which of the following agents is not recommended for respiratory tract infections with possible MRSA infections?

- Ceftaroline
- Daptomycin
- Linezolid

- Vancomycin

Question 296 [1.00 pt(s)]

A drug is administered in the form of an inactive pro-drug. The pro-drug increases the expression of a cytochrome P-450 that converts the pro-drug to its active form. With chronic, long-term administration of the pro-drug, which of the following will be observed?

- The potency will decrease
 The potency will increase
 The efficacy will decrease
 The efficacy will increase

Question 297 [1.00 pt(s)]

A 6-year-old elementary school student seen in the clinic is found to have lice infestation of the scalp. Measures to eradicate the infection in the patient and the rest of the family include:

- Calamine lotion with 1% menthol and sterilization of all bedding and clothes
 Sulfur ointment and sterilization of all bedding and clothes
 Permethrin 1% and sterilization of all bedding and clothes
 Crotamiton and sterilization of all bedding and cloths

Question 298 [1.00 pt(s)]

A patient took a potentially lethal overdose of aspirin. What drug would be a helpful, if not lifesaving, adjunct to manage this severe aspirin poisoning?

- Acetaminophen
 N-acetylcysteine
 Phenobarbital
 Sodium bicarbonate

Question 299 [1.00 pt(s)]

Which of the following is an appropriate agent and starting dose for a patient with uncomplicated hypertension?

- Atenolol 25 mg once daily
 Atenolol 100 mg once daily
 Propranolol 80 mg twice daily
 Propranolol 120 mg twice daily

Question 300 [1.00 pt(s) **Shuffle Disabled**]

A 55 year old man known to have diabetes presents to the physician for follow up. He has a history of elevated BP and today his average BP measured is 156/95mmHg. Which of the following drugs would be recommended as a first choice for this patient

according to JNC8?

- Ramipril
- Amlodipine
- Hydrochlorothiazide
- Any of the above

Question 301 [1.00 pt(s)]

Which type of therapy would be most appropriate for a 58-year-old female with type 2 diabetes and total cholesterol 210 mg/dL, HDL cholesterol 52 mg/dL, triglycerides 958 mg/dL, and LDL cholesterol 131 mg/dL?

- Fenofibrate 160 mg daily
- Atorvastatin 40 mg daily
- Pravastatin 20 mg daily
- Cholestyramine twice daily

Question 302 [1.00 pt(s)]

This drug, which does not activate opioid receptors, has been proposed as a maintenance drug in treatment programs for opioid addicts; a singly oral dose will block the effects of injected heroin for up to 48 hours:

- Amphetamine
- Buprenorphine
- Naloxone
- Naltrexone

Question 303 [1.00 pt(s)]

Which one of the following effects does not occur in salicylate intoxication ?

- Hyperventilation
- Diarrhea
- Metabolic acidosis
- Respiratory alkalosis

Question 304 [1.00 pt(s)]

Which of the following is an irreversible inhibitor of cyclooxygenase?

- Aspirin
- Phenylbutazone
- Indomethacin
- Piroxicam

Question 305 [1.00 pt(s)]

Which of the following glucocorticoids has significant mineralocorticoid activity also?

- Hydrocortisone
- Triamcinolone
- Dexamethasone
- Betamethasone

Question 306 [1.00 pt(s)]

N-acetyl cysteine is beneficial in acute paracetamol poisoning because

- It reacts with paracetamol to form a nontoxic complex
- It inhibits the generation of the toxic metabolite of paracetamol
- It is a free radical scavenger
- It replenishes hepatic glutathione which in turn binds the toxic metabolite of paracetamol

Question 307 [1.00 pt(s)]

Milrinone is an example of

- Phosphodiesterase I inhibitor
- Phosphodiesterase II inhibitor
- Phosphodiesterase III inhibitor
- Phosphodiesterase IV inhibitor

Question 308 [1.00 pt(s) **Shuffle Disabled**]

Unfractionated heparin binds to antithrombin III and inactivates clotting factor(s)

- Xa
- IXa
- IIa
- All of the above

Question 309 [1.00 pt(s)]

The dihydropyridines block the following type of calcium channels.

- L-type voltage sensitive channels
- T-type voltage sensitive channels
- N-type voltage sensitive channels
- Receptor operated calcium channels

Question 310 [1.00 pt(s)]

Which of the following is a very long acting β_2 – selective agonist that is used for asthma prophylaxis?

- Albuterol

- Ipratropium
- Metaproterenol
- Salmeterol

Question 311 [1.00 pt(s)]

Terbutaline has a preference for stimulation of which of the following receptors?

- Alpha
- Beta 1
- Beta 2
- Dopaminergic

Question 312 [1.00 pt(s)]

Which of the following statements about vancomycin is accurate?

- It is bacteriostatic
- It binds to penicillin binding protein
- It is not susceptible to penicillinase
- It has the advantage of oral bioavailability

Question 313 [1.00 pt(s)]

The mechanism of antibacterial action of tetracycline involves

- Binding to a component of the 50S ribosomal subunit
- Blockade of binding of aminoacyl – tRNA to bacterial ribosomes
- Selective inhibition of ribosomal peptidyl transferases
- Inhibition of DNA-dependent RNA polymerase

Question 314 [1.00 pt(s)]

Penicillins interfere with bacterial cell wall synthesis by

- Inhibiting synthesis of N-acetyl muramic acid pentapeptide
- Inhibiting conjugation between N-acetyl muramic acid and N-acetyl glucosamine
- Inhibiting transpeptidases and carboxy peptidases which cross link the Peptidoglycan residues
- Counterfeiting for D-alanine in the bacterial cell wall

Question 315 [1.00 pt(s)]

Clavulanic acid is combined with amoxicillin because:

- It kills bacteria that are not killed by amoxicillin
- It reduces renal clearance of amoxicillin
- It counteracts the adverse effects of amoxicillin
- It inhibits beta lactamases that destroy amoxicillin

Question 316 [1.00 pt(s)]

Which phrase best describes the mechanism by which Amiloride causes its potassium-sparing effects?

- Blocks the agonist effects of aldosterone with its renal tubular receptors
- Blocks distal tubular sodium channels and, ultimately, Na⁺-K⁺ exchange
- Hastens metabolic inactivation of aldosterone
- Stimulates a proximal tubular Na, K-ATPase

Question 317 [1.00 pt(s)]

Which one of the following is the other most likely mechanism by which nebivolol helps lower blood pressure?

- Competitively blocks postsynaptic (α 1) adrenergic receptors
- Competitively blocks presynaptic (α 2) adrenergic receptors
- Increases nitric oxide formation
- Increases synthesis of thromboxane A₂

Question 318 [1.00 pt(s)]

A 42-year-old man with an acute MI is treated with alteplase, and electrocardiographic and hemodynamic status improves quickly. By what mechanism did the alteplase cause its beneficial effects?

- Blocked platelet ADP receptors
- Inhibited platelet thromboxane production
- Prevented aggregation of adjacent platelets by blocking glycoprotein IIb/IIIa receptors
- Promoted conversion of plasminogen to plasmin

Question 319 [1.00 pt(s)]

Which of the following statements best describes the mechanism of action of Abciximab?

- Blocks thrombin receptors selectively
- Blocks ADP receptors
- Blocks glycoprotein IIb/IIIa receptors
- Inhibits cyclooxygenase

Question 320 [1.00 pt(s)]

Oxybutynin works by

- Inhibiting acetylcholinesterase at muscarinic and nicotinic receptors
- Causing a neuromuscular blockade
- Antagonizing α 1-adrenoceptors
- Binding to muscarinic receptors

Question 321 [1.00 pt(s)]

A 27-year-old man was recently diagnosed with Type-2 diabetes mellitus and placed on a medication. As he was drinking alcohol with his friends, he became violently ill. What medication is he most likely taking?

- Glyburide
- Metformin
- Pioglitazone
- Tolbutamide

Question 322 [1.00 pt(s)]

Which of the following drugs is an analog of an endogenous peptide that inhibits glucagon secretion?

- Exenatide
- Glipizide
- Pramlintide
- Rosiglitazone

Question 323 [1.00 pt(s)]

Which of the following drugs will decrease synthesis of thyroid hormones and decrease the peripheral conversion of T4 to T3?

- Lanreotide
- Levothyroxine
- Octreotide
- Propylthiouracil

Question 324 [1.00 pt(s)]

Which of the following statements describes how NSAIDs may interfere with the effects of Furosemide?

- Afferent arteriole vasoconstriction
- Efferent arteriole vasoconstriction
- Increase tubular sodium reabsorption
- Stimulation of the ADH receptor

Question 325 [1.00 pt(s)]

Hydrochlorothiazide may be helpful in prevention of renal stones through which of the following mechanisms?

- Binding to urine calcium
- Binding to urine sodium
- Resorption of calcium at the level of renal tubules
- Increase in calcium excretion at the level of renal tubules

Question 326 [1.00 pt(s)]

In case of open-angle glaucoma, Acetazolamide is given to produce which of the following responses?

- Decrease production of aqueous humor
- Increasing intraocular pressure
- Inhibition of sodium-calcium transport
- Stimulating carbonic anhydrase

Question 327 [1.00 pt(s)]

Teriparatide is a recombinant segment of which of the following hormones?

- Follicle-stimulating hormone
- Growth hormone
- Parathyroid hormone
- Thyroid hormone

Question 328 [1.00 pt(s)]

Which of the following is the mechanism of orlistat?

- Binding bile salts
- Inhibition of α -glucosidase
- Inhibition of chylomicrons formation
- Inhibition of lipase

Question 329 [1.00 pt(s)]

A 76-year-old man with stage 5 chronic kidney disease who has been on hemodialysis for 2 years presents with muscle cramping. His serum phosphate is markedly elevated. His physician prescribes sevelamer. How will sevelamer act?

- Decrease phosphate resorption from bone
- Increased excretion in the feces
- Increased excretion in the sweat
- Increased excretion in the urine

Question 330 [1.00 pt(s)]

What is the most likely mechanism of action of caffeine?

- Increase in adenosine diphosphate
- Increase in cyclic guanosine monophosphate
- Inhibition of guanosine receptors
- Inhibition of thymine receptors

Question 331 [1.00 pt(s)]

Which of the following medications is the most commonly associated with hepatotoxicity?

- Barbiturates
- Benzodiazepines
- Salicylates
- Acetaminophen

Question 332 [1.00 pt(s)]

Drug level as part of poisoning management is indicated in all of the following, except:

- Digoxin
- Oral hypoglycemics
- Carbon monoxide
- Iron

Question 333 [1.00 pt(s)]

The antidote that acts by direct pharmacological antagonism is:

- Deferoxamine
- Naloxone
- Pralidoxime
- Alkaline diuresis

Question 334 [1.00 pt(s)]

Deferoxamine acts in case of acute iron poisoning as:

- Chelator
- Antagonist
- Inactivator
- Competitor

Question 335 [1.00 pt(s)]

Cardiac dysrhythmias in case of tricyclic antidepressants toxicity is best treated with:

- Dopamine
- Sodium bicarbonate
- Epinephrine
- Phenylephrine

Question 336 [1.00 pt(s)]

The first line treatment for beta blockers poisoning:

- Glucagon
- Calcium
- Phosphodiesterase inhibitors
- Catecholamines

Question 337 [1.00 pt(s)]

Which of the following pairs is False regarding drugs and their appropriate antidotes:

- Methanol: Ethanol
- Cyanide: Thiocyanate
- Methemoglobinemia: Methylene blue
- Carbon monoxide: Oxygen

Question 338 [1.00 pt(s)]

Regarding Activated charcoal which is incorrect:

- Adsorbs all toxic ingestants preventing further GI absorption
- Best if used within first hour of ingestion
- Contraindicated in case of gastrointestinal obstruction
- Multiple dose activated charcoal interrupts enterohepatic recirculation

Question 339 [1.00 pt(s)]

Following aspirin overdose the initial acid-base derangement is usually:

- Respiratory acidosis
- Metabolic acidosis
- Respiratory alkalosis
- Metabolic alkalosis

Question 340 [1.00 pt(s)]

Which of the following is the antidote in Benzodiazepines intoxication?

- Flumazenil
- Methylene blue
- Deferoxamine
- Alkalinize urine

Question 341 [1.00 pt(s)]

Which of the following is the antidote in lead intoxication?

- Naloxone
- Nitrite

- CaEDTA
- Dialysis

Question 342 [1.00 pt(s)]

Which of the following is the primary site of activity Warfarin?

- Kidney
- Liver
- Blood
- Heart

Question 343 [1.00 pt(s)]

Which of the following drugs is mainly associated with the reaction of hepatitis?

- Valproic acid
- Quinidine
- Isoniazid
- Ethosuximide

Question 344 [1.00 pt(s)]

Which of the following drugs is associated with the reaction of

- Digitalis
- Niacin
- Tetracycline
- Fluoroquinolones

Question 345 [1.00 pt(s)]

Which of the following drugs is associated with the reaction of extreme photosensitivity?

- Digitalis
- Niacin
- Tetracycline
- Fluoroquinolones

Question 346 [1.00 pt(s)]

Which of the following is not related to a drug toxicity of Prednisone?

- Cataracts
- Hypotension
- Psychosis
- Acne

Question 347 [1.00 pt(s)]

Which of the following is not related to a drug toxicity of Atenolol?

- CHF
- Tachycardia
- AV block
- Sedative appearance

Question 348 [1.00 pt(s)]

Potassium sparing diuretics have the primary effect upon the found in the kidney.

- Proximal convoluted tubule
- Loop of Henle
- Collecting duct
- Distal convoluted tubule

Question 349 [1.00 pt(s)]

Which of the following is not directly related to a drug toxicity of Nitroglycerin?

- Headaches
- Tachycardia
- Dizziness
- Vomiting

Question 350 [1.00 pt(s)]

Which of the following is not directly related to a drug toxicity of Ibuprofen?

- Nausea
- Renal dysfunction
- Anemia
- Muscle wasting

Question 351 [1.00 pt(s)]

Which of the following is NOT part of the etymology of the word pharmacology?

- Drug
- Herb
- Poison
- Study

Question 352 [1.00 pt(s)]

Xenobiotics are considered:

- Endogenous
- Exogenous
- Inorganic poisons
- Toxins

Question 353 [1.00 pt(s)]

Which of the following describes an agonist?

- Any substance that brings about a change in biologic function through its chemical action
- A specific regulatory molecule in the biologic system where a drug interacts
- A drug that binds to a receptor and stimulates cellular activity
- A drug that binds to a receptor and inhibits or opposes cellular activity

Question 354 [1.00 pt(s)]

Which of the following would be a toxin of biological origin?

- Pb
- As
- Hg
- Atropine

Question 355 [1.00 pt(s)]

The vast majority of drugs have molecular weights (MW) between 100 and 1,000. Large drugs, such as alteplase (t-PA), must be administered:

- Into the compartment where they have their effect
- Orally so they do not absorb too quickly
- Rectally to prevent irritation to the stomach lining and vessels
- Via the intraosseous (IO) route

Question 356 [1.00 pt(s)]

Which of the following occurs with drugs that are extremely small, such as Lithium?

- Receptor mediated endocytosis
- Vasodilation when injected intravenously (IV)
- Specific receptor binding
- Nonspecific binding

Question 357 [1.00 pt(s)]

Drugs fit receptors using the lock and key model. Covalent bonds are the _____ and the _____ specific.

- Strongest; Most

- Strongest; Least
- Weakest; Most
- Weakest; Least

Question 358 [1.00 pt(s)]

Which of the following is NOT a protein target for drug binding?

- Site of action
- Enzyme
- Carrier molecule
- Receptor

Question 359 [1.00 pt(s)]

Which of the following is an example of a drug acting directly through receptors?

- Protamine binds stoichiometrically to heparin anticoagulants
- Adrenergic beta blockers for thyroid hormone-induced tachycardia
- Epinephrine for increasing heart rate and blood pressure
- Cancer chemotherapeutic agents

Question 360 [1.00 pt(s) **Shuffle Disabled**]

What determines the degree of movement of a drug between body compartments?

- Partition constant
- Degree of ionization
- Size
- All of the above

Question 361 [1.00 pt(s)]

What is added with drug subclassification, such as an antitubercular drug versus an antibacterial drug?

- Cost
- Size
- Ionization
- Precision

Question 362 [1.00 pt(s)]

Which of the following adverse effects (side-effects) is NOT commonly seen with cholinergic antagonists?

- Urinary retention
- Confusion
- Miosis

- Constipation

Question 363 [1.00 pt(s)]

The drug chloramphenicol is most risky for:

- Neonates
 Geriatric patients
 Adult males
 Congestive heart failure patients

Question 364 [1.00 pt(s)]

A decrease in renal and liver function, as seen in the elderly, would prolong drug half-life, _____ plasma protein binding, and _____ volume of distribution.

- Increase; Increase
 Decrease; Decrease
 Increase; Decrease
 Decrease; Increase

Question 365 [1.00 pt(s)]

Pharmacokinetics is the effect of the _____ and pharmacodynamics is the effect of the _____ .

- Drug on a drug; Body on the drug
 Body on the drug; Drug on a drug
 Drug on the body; Body on the drug
 Body on the drug; Drug on the body

Question 366 [1.00 pt(s)]

Which of the following is NOT an action of the body on a drug?

- Absorption
 Distribution
 Metabolism
 Side effects

Question 367 [1.00 pt(s)]

If a drug is 80% bound to blood elements or plasma proteins, what part is considered the free form?

- 20%
 50%
 80%
 100%

Question 368 [1.00 pt(s)]

If a patient misses three doses of their daily drug, which of the following (in general) is the best solution?

- Take a 4x dose at the next dose time
- Wait 3 more days (week total) then return to normal regimen
- Do nothing and continue normal regimen
- Prescribe a higher dosage pill so missed doses will have less effect

Question 369 [1.00 pt(s)]

Which of the following drug permeation mechanisms occurs across epithelial tight junctions and is driven by a concentration gradient?

- Aqueous diffusion
- Lipid diffusion
- Carrier molecules
- Endocytosis and exocytosis

Question 370 [1.00 pt(s)]

Which of the following tests can determine the long term control of diabetes mellitus?

- Fasting blood sugar level
- Oral glucose tolerance test
- IV glucose tolerance test
- HbA1C level

Question 371 [1.00 pt(s)]

HbA1C level reflects the control of diabetes mellitus over the last:

- 1 month
- 2-3 months
- 3-4 months
- 6 months

Question 372 [1.00 pt(s)]

The presence of protein in urine indicates:

- liver cirrhosis
- glomerulonephritis
- diabetic ketoacidosis
- severe starvation

Question 373 [1.00 pt(s)]

Which of the following is not a cause of hypocalcemia?

- chronic renal failure
- hyperparathyroidism
- hypoparathyroidism

- vitamin D deficiency

Question 374 [1.00 pt(s)]

Hyperbilirubinemia could be due to:

- acute renal failure
 hemolysis
 renal stones
 iron deficiency

Question 375 [1.00 pt(s)]

Uric acid in the serum should be normally:

- 3 - 7 mg/dl
 3 - 7 g/dl
 0.3 - 0.7 mg/dl
 0.3 - 0.7 g/dl

Question 376 [1.00 pt(s)]

A premature baby, now 4 years old, has developed a white coating on her buccal mucosa extending onto her lips. It appears to be painful. What is the most likely causative agent?

- Actinomyces
 Aspergillus
 Candida
 Microsporum

Question 377 [1.00 pt(s)]

This urinary pathogen "swarms" across agar surfaces and may cause bladder and renal calculi (stones)

- Citrobacter freundii
 Enterobacter aerogenes
 Klebsiella oxytoca
 Proteus mirabilis

Question 378 [1.00 pt(s)]

"Rice water stools" are associated with disease caused by which organism

- Vibrio cholera
 Camylobacter jejuni
 Helicobacter pylori
 Shigella dysenteriae

Question 379 [1.00 pt(s)]

The primary viral cause of diarrhea in young children, globally is

- Cryptosporidium
- Rotavirus
- Adenovirus
- Norovirus

Question 380 [1.00 pt(s)]

----- is NOT a virus that commonly causes of severe lower respiratory tract disease in infants

- Adenovirus
- Rhinovirus
- RSV
- Klebsiella Pneumoniae

Question 381 [1.00 pt(s)]

Which of the following organisms would most likely be associated with gastric ulceration

- Camylobacter jejuni
- Helicobacter pylori
- Shigella dysenteriae
- Enteroinvasive E. coli

Question 382 [1.00 pt(s)]

An important characteristic of mycobacteria is that they are:

- Gram negative rods
- Rapid growing (doubling time 15 minutes)
- Acid fast staining
- Alpha hemolytic

Question 383 [1.00 pt(s)]

According to WHO, vaccination has led to the eradication of the following disease

- Poliomyelitis
- Smallpox
- Yellow fever virus
- Measles virus

Question 384 [1.00 pt(s)]

Senna preparations can be used for the treatment of :

- Constipation
- Diabetes
- Fever
- Cough

Question 385 [1.00 pt(s)]

Valeriana can be used for the treatment of :

- Rheumatic pain
- Anxiety and sleep disorders
- Migraine
- Diarrhea

Question 386 [1.00 pt(s)]

Morphine is an alkaloid obtained from :

- Poppy capsule
- Capsicum fruits
- Hyoscyamus herb
- Anise fruit

Question 387 [1.00 pt(s)]

Atropine is an :

- Ester alkaloid
- Aliphatic alkaloid
- Aromatic glycoside
- anthracene derivative

Question 388 [1.00 pt(s)]

Ginkgo preparations are effective as :

- Immunostimulant
- Antidiarrheal
- Expectorant
- Antihelminthic

Question 389 [1.00 pt(s)]

Liquorice preparations are contraindicated in case of:

- Constipation
- Fever
- Angina pectoris
- Hypertension

Question 390 [1.00 pt(s)]

Diosmin is recommended in case of

- GIT disorders
- Hypertension
- Heart failure
- Varicose veins

Question 391 [1.00 pt(s)]

Vincristine is used for the treatment of:

- Congestive heart failure
- Bronchitis
- Vascular disorders
- Cancer

Question 392 [1.00 pt(s)]

Natural biflavonoids are used as :

- Bulk laxative
- Stimulant laxative
- Antioxidant
- Dietary supplement

Question 393 [1.00 pt(s)]

Ivy preparations are used in :

- Expectorant preparations
- Digestive preparations
- Slimming preparations
- CNS depressant preparations

Question 394 [1.00 pt(s)]

Menthol is used as :

- Antiseptic
- Anthelmintic
- Antirheumatic
- Astringent

Question 395 [1.00 pt(s)]

Thymol is classified under :

- alkaloids
- glycosides
- volatile oils
- aromatic acids

Question 396 [1.00 pt(s)]

Saponins are characterized by :

- Giving a stable foam in water
- Giving temporary foam with water
- Giving no foam with water
- Giving foam with alcohol only

Question 397 [1.00 pt(s)]

Baby drink use as carminative should contain:

- Fennel
- Capsicum
- Coriander
- Senna pods

Question 398 [1.00 pt(s)]

Quinine is used as an

- Anticoagulant
- Antidepressant
- Antidiabetic
- Antimalarial

Question 399 [1.00 pt(s)]

Clove is used in:

- Tooth pain
- Foot ulcers
- Chest pain
- Rheumatic pain

Question 400 [1.00 pt(s)]

Ginseng preparations can be used :

- In liver disorders
- In cardiac disorders
- In kidney problems
- As immune-stimulant

Question 401 [1.00 pt(s)]

Multierbal mixture preparations are:

- Safer than single herbal preparations
- Not recommended to all patients
- Recommended for children
- Recommended for pregnant women

Question 402 [1.00 pt(s)]

Natural Slimming preparations should not contain:

- Vitamins
- Unidentified matters
- Nutritional supplements
- Natural anti-oxidants

Question 403 [1.00 pt(s)]

A person suffers from insomnia can drink:

- German chamomile Tea bags
- Ipeca syrup
- Black seed infusion
- Ginseng Tea bags

Question 404 [1.00 pt(s)]

Hyoscine preparations are available as:

- Syrups
- Tablets
- Multiherbal mixtures
- Capsules

Question 405 [1.00 pt(s)]

Aromatherapy components should include:

- Volatile oils only
- Fixed oils and volatile oils
- Fixed oils only
- Natural Flavonoids

Question 406 [1.00 pt(s)]

Ginger is recommended as :

- As antimicrobial
- Anticoagulant
- Antihypertensive
- Antidepressant

Question 407 [1.00 pt(s)]

Catharanthus herb is the main source of:

- Vincristine
- Ergotamine
- Hyoscyamine
- Nicotine

Question 408 [1.00 pt(s)]

How are prescription drugs different from OTC ones?

- They contain higher amounts of active ingredients
- They don't contain dyes or preservatives
- They're unsafe for use without medical supervision
- They can be toxic

Question 409 [1.00 pt(s) **Shuffle Disabled**]

You should follow certain precautions when you self-treat with OTC drugs. What should you do?

- Diagnose your health problem carefully
- Read the label carefully and follow dosage instructions
- Follow any label warnings
- All of the above

Question 410 [1.00 pt(s)]

Aspirin can cause problems with which of these conditions?

- Asthma
- Bronchitis
- Sinusitis
- Low blood pressure

Question 411 [1.00 pt(s)]

People allergic to aspirin may also be allergic to which other OTC drugs?

- Naproxen
- Acetaminophen
- Epinephrine
- Steroid

Question 412 [1.00 pt(s)]

You can take nonsteroidal anti-inflammatory drugs safely for a maximum duration before seeing a doctor for a diagnosis?

- 1 to 3 days
- 7 to 10 days
- 3 to 5 days
- 30 days

Question 413 [1.00 pt(s)]

Older adults are especially vulnerable to the side effects of which of these OTC drugs?

- Laxatives
- Pain killers
- Antihistamines
- Topical NSAIDs

Question 414 [1.00 pt(s)]

Many OTC medications for children come in liquid form. What is the best way to measure the dosage?

- Use a kitchen tablespoon

- Use a kitchen teaspoon
- Use a special dosing spoon
- Any spoon would work

Question 415 [1.00 pt(s)]

What should you look for when you select an OTC drug?

- One that helps a wide range of symptoms
- One that helps your primary symptom
- One that's a time-release formula
- One that doesn't have red dye

Question 416 [1.00 pt(s)]

In iron intoxication, the most affected organs include:

- The heart and liver because ferritin is greatly abundant in those organs for excess iron to build up and causes tissue destruction.
- The kidney because ferritin is greatly abundant in those organs for excess iron to build up and causes tissue destruction.
- The brain because ferritin is greatly abundant in those organs for excess iron to build up and causes tissue destruction.
- Red blood cells

Question 417 [1.00 pt(s)]

Which of the following is true in Tricyclic Antidepressants (TCA) intoxication?

- TCA blood serum concentration is a main diagnostic tool
- ECG can be used to predict the likelihood of subsequent serious neurologic (eg, seizure) toxicity
- Brain CT scan must be used in conjunction with physical findings to guide therapy.
- Ipecac should be used as a first line treatment within 4 hours post ingestion

Question 418 [1.00 pt(s)]

Which of the following is true of Iron toxicity phase two?

- It occurs 14-24 hours post ingestion
- It is usually asymptomatic
- It consists of marked systemic toxicity caused by this mitochondrial damage and hepatocellular injury
- Iron serum levels are increased

Question 419 [1.00 pt(s)]

In treating Tricyclic Antidepressants (TCA) intoxication which of the following is true?

- Serum alkalinization is the first-line and most effective therapy for arrhythmias.
- Lidocaine is the first-line and most effective therapy for arrhythmias.
- Class 1-A and 1-C agents (eg, procainamide, disopyramide, quinidine, flecainide, encainide) are third-line agents
- Amiodarone is the first-line and most effective therapy for arrhythmias

Question 420 [1.00 pt(s)]

Which of the following is true of Iron toxicity management?

- Bowel decontamination with whole bowel irrigation and chelation using intravenous administration of deferoxamine are two options used in iron intoxication treatment.
- Gastric lavage is highly recommended in iron intoxication treatment.
- Hemoperfusion is useful in iron intoxication treatment.
- Serum alkalization is the first-line and most effective therapy in iron intoxication

Question 421 [1.00 pt(s)]

Narcotic toxidrome includes:

- Salivation
- Lacrimation
- Hypertension
- Respiratory depression

Question 422 [1.00 pt(s)]

Pediatric patients younger than five years appear to recover better than adults after Acetaminophen poisoning; the mechanism is be due to the fact that:

- Pediatrics have a higher volume of distribution
- Pediatrics have an enhanced detoxification of NAPQI
- Pediatrics have a decrease in glutathione stores
- Pediatrics have a higher metabolic CYP3A4 rate

Question 423 [1.00 pt(s)]

A 53-year-old woman ingests half of a bottle of aspirin tablets and later presents to the emergency department with gastrointestinal pain and vomiting. The treatment of this patient would include administration of:

- Sodium bicarbonate because it increases ionization of salicylate in the urine
- Sodium bicarbonate because it decreases ionization of salicylate in the urine
- Ascorbic acid because it increases ionization of salicylate in the urine
- Ascorbic acid because it decreases ionization of salicylate in the urine

Question 424 [1.00 pt(s)]

A 33-year-old woman is brought to the emergency department after ingesting a large but unknown quantity of acetaminophen. Use of N-acetylcysteine in the treatment of this patient is based on the goal of:

- Inhibiting drug absorption
- Increasing drug elimination
- Inactivating a toxic metabolite
- Decreasing target receptor binding

Question 425 [1.00 pt(s)]

A two- year old boy reportedly ate 12 grape flavored chewable acetaminophen tablets that he found in the bathroom two hours ago. He has already had two episodes of

vomiting. His mother calls the poison center and asks for advice. She states that her son is now playful and "looks fine." What recommendations would you give to his mother (Assume you can recommend a treatment)?

- Bring the patient to the ER
- Give the patient activated charcoal
- Give the patient ipecac
- Nothing needs to be done

Question 426 [1.00 pt(s)]

Which of the following is a potential secondary drug-induced cause of hypertension?

- Acetaminophen
- Orlistat
- Phenylpropanolamine
- Dextromethorphan

Question 427 [1.00 pt(s)]

Which of the following patients is at very high risk for cardiovascular disease and should immediately receive a medication to lower blood pressure?

- A 58-year-old woman with diabetes and a baseline blood pressure of 128/75 mm Hg
- A 45-year-old man with uncomplicated hypertension and a baseline blood pressure of 150/96 mm Hg
- A 68-year-old man with heart failure and a baseline blood pressure of 150/88 mm Hg
- A 35-year-old man with dyslipidemia and a baseline blood pressure of 150/984 mm Hg

Question 428 [1.00 pt(s)]

Which of the following would be most appropriate for a patient with hypertension who has had a myocardial infarction?

- Nifedipine
- Doxazosin
- Metoprolol
- Acebutolol

Question 429 [1.00 pt(s)]

Which of the following is the most appropriate blood pressure goal for a 65-year-old African-American with hypertension and no other medical problems?

- <140/90 mm Hg
- <130/85 mm Hg
- <130/80 mm Hg
- <125/75 mm Hg

Question 430 [1.00 pt(s)]

In order to minimize the risk of hypokalemia from diuretics, the most appropriate strategy would include

- limiting the dose of hydrochlorothiazide
- using loop diuretics.
- using potassium-sparing diuretics as the primary therapy.
- having all patients switch their dietary salt to potassium chloride salt substitutes.

Question 431 [1.00 pt(s)]

Which of the following is an appropriate agent and starting dose for a patient with uncomplicated hypertension?

- Atenolol 25 mg once daily
- Atenolol 100 mg once daily
- Propranolol 80 mg twice daily
- Propranolol 120 mg twice daily

Question 432 [1.00 pt(s)]

Which drug is most likely to cause vasodilation-type side effects (headache, flushing) because it blocks the movement of calcium across smooth muscle cells?

- Propranolol
- Captopril
- Clonidine
- Verapamil

Question 433 [1.00 pt(s)]

When patients with renal insufficiency develop severe cough from ACE inhibitors, what would be the best alternative to provide renal protection?

- Propranolol
- Hydrochlorothiazide
- Losartan
- Doxazosin

Question 434 [1.00 pt(s)]

Which of the following is true concerning clonidine?

- It has been used for smoking cessation and narcotic withdrawal.
- It can cause systemic lupus.
- It can cause hemolytic anemia.
- It has been used to treat benign prostatic hypertrophy.

Question 435 [1.00 pt(s)]

Which agent causes so much fluid retention and tachycardia that it should be used along with a diuretic and a beta blocker?

- Diltiazem
- Minoxidil
- Captopril
- Losartan

Question 436 [1.00 pt(s)]

Which of the following is a contraindication to enalapril?

- Bilateral renal artery stenosis
- A pheochromocytoma
- Undetected diabetes
- A family history of end-stage renal failure

Question 437 [1.00 pt(s)]

What potential side effects would you mention to a patient recently started on nifedipine?

- Increased hair growth (hirsutism)
- Painful or swollen breasts (gynecomastia)
- Systemic lupus
- Leg edema

Question 438 [1.00 pt(s)]

Which drug is most likely to cause vasodilation because it blocks postsynaptic alpha receptors?

- Propranolol
- Prazosin
- Verapamil
- Clonidine

Question 439 [1.00 pt(s)]

A 39-year-old woman with hypertension is taking HCTZ, enalapril and diltiazem. She desires to become pregnant. The most important step would be to

- switch HCTZ to furosemide
- switch diltiazem to amlodipine
- discontinue diltiazem.
- discontinue enalapril.

Question 440 [1.00 pt(s)]

Which one of the following nondrug measures is likely to be most effective to lower blood pressure chronically?

- Reduce caffeine
- Start biofeedback
- Lose 7 Kg
- Begin garlic capsules

Question 441 [1.00 pt(s)]

The agent of choice for a patient with diabetes is

- propranolol.
- doxazosin.
- clonidine.
- enalapril.

Question 442 [1.00 pt(s)]

A 23-year-old healthy volunteer male received an intravenous dose of 2 mg of a new drug during a clinical trial. The drug follows first-order, one-compartment model kinetics and has a volume of distribution of 10 L. After 6 hours the plasma concentration of the drug was 50 µg/ L. Which of the following is most likely the half-life of the drug

- 1 hour
- 3 hours
- 4 hours
- 6 hours

Question 443 [1.00 pt(s)]

In chlorates poisoning, a 20% methemoglobinemia was observed. The recommended treatment is:

- hyperbaric oxygen
- the administration of methylene blue 1% solution IV
- the administration of a sodium thiosulfate solution
- the administration of Glutathion

Question 444 [1.00 pt(s)]

Chlorpromazine:

- causes hemolytic anemia by direct action on the red blood cell
- causes agranulocytosis
- causes pancytopenia
- causes hemolytic anemia via an immunoallergic mechanism

Question 445 [1.00 pt(s)]

Which of the following toxic substances causes thrombocytopenia:

- acetaminophen
- acenocoumarin
- As203
- Vancomycin

Question 446 [1.00 pt(s)]

Unpredictable hepatic toxicity is characterized by:

- a short latency period
- slow recurrence after re administration
- a low incidence of appearance
- a dose effect relationship

Question 447 [1.00 pt(s)]

The involvement of the proximal tubular brush border is assessed by the quantitative determination of:

- LDH.
- NAG.
- Gamma GT.
- glutamate dehydrogenase.

Question 448 [1.00 pt(s)]

Renal toxicity of gentamicin is essentially evaluated by assaying:

- D- β -glucosidase.
- alkaline phosphatase
- NAG
- leucine aminopeptidase

Question 449 [1.00 pt(s)]

The optimum efficiency of active charcoal is obtained:

- after the administration of syrup of ipecac
- 2 hours after oral intoxication
- 30 minutes after oral intoxication
- in combination with cholestyramine

Question 450 [1.00 pt(s)]

To quickly induce vomiting (1-3 minutes), use:

- apomorphine
- syrup of ipecac
- BAL
- sodium chloride

Question 451 [1.00 pt(s)]

Renal extra purification methods can:

- Apply to cytotoxic poisons
- Eliminate high molecular weight substances > 1500
- Be applied to substances having a low volume of distribution
- Be applied to substances with a high volume of distribution

Question 452 [1.00 pt(s)]

The periportal necrosis is experimentally caused by:

- Galactosamine
- Acetyl hydrazine

- Acetaminophen
- Allyl alcohol

Question 453 [1.00 pt(s)]

Gastric lavage is contra-indicated in the following cases except one:

- Ingestion of Flash (household product containing sodium hydroxide)
- Ingestion of detergents
- Ingestion of paracetamol
- Coma

Question 454 [1.00 pt(s)]

Methylene blue:

I. Is used in the treatment of methemoglobinemia higher than 10%

II. Induces methemoglobinemia

III. Is available as a solution of 5%

IV. Acts through its leuco derivatives

V. Is avoided in cirrhotic subjects

The correct answer is:

- I and III
- II and IV
- I and IV
- III and V

Question 455 [1.00 pt(s)]

Lead poisoning in children is characterized by:

- The appearance of a Burton border
- macrocytic hypochromic anemia
- Gastrointestinal disorders: diarrhea
- nervous disorders: encephalopathy

Question 456 [1.00 pt(s)]

Buprenorphine:

- Is a morphinomimetic to hexacyclic structure
- Is an opioid antagonist
- Is a morphinomimetic to diphenylpropylamine structure
- Is a phenylpiperidine to tetracyclic structure

Question 457 [1.00 pt(s)]

The respiratory depression encountered during a salicylate poisoning is observed at a concentration of:

- <450 mg / L
- <650 mg / L
- >650 and <900 mg / L
- >900 mg / L (+)

Question 458 [1.00 pt(s)]

Cardiovascular disorders observed in poisoning with ethylene glycol:

- correspond to lesions caused by inclusions of calcium oxalate crystals
- are always benign tachycardia and moderate hypotension
- begin within 4 hours of exposure
- always follow the onset of pulmonary edema

Question 459 [1.00 pt(s)]

A subject in coma was admitted to the hospital emergency department. He presented with metabolic acidosis and methanolemia 0.65 g / L. The correction of acidosis followed by detoxification should be done by:

- hemoperfusion
- Peritoneal dialysis
- The administration of diuretics
- Hemodialysis

Question 460 [1.00 pt(s)]

An overdose of benzodiazepines is characterized by the following clinical signs:

- Muscle twitching and fasciculation
- Hallucinations and confusion
- Hyperventilation and tachycardia
- Drowsiness and clouding

Question 461 [1.00 pt(s)]

Delirium tremens corresponding to acute symptoms of alcohol malabsorption is characterized by the following clinical signs:

- Slow Pulse
- High hyperthermia
- Transient hallucinations that are often nocturnal
- Ocular paralysis

Question 462 [1.00 pt(s)]

Alcoholism: The overload condition:

- Is observed when alcohol intake reaches 50% of caloric intake
- Represents a pathophysiological complex of malnutrition
- Is related to an increase of triglyceride synthesis
- Is never associated with hepatic steatosis, first step in the progression to cirrhosis

Question 463 [1.00 pt(s)]

One of the following clinical signs is consistently observed at a salicylic plasma level of 700 mg / L:

- hyperthermia

- Pulmonary edema
- Convulsions
- Circulatory collapse

Question 464 [1.00 pt(s)]

An elderly was urgently admitted to a hospital. He is in a coma with respiratory and cardiovascular depression and drop in blood pressure. Urinalysis by GC-MS revealed the presence of 2-amino - 5-nitrobenzophenone. It is concluded as the absorption of massive doses of:

- methyl parathion
- Flunitrazepam
- Nitrazepam
- Flunitrazepam or Nitrazepam

Question 465 [1.00 pt(s)]

The treatment of poisoning with tricyclic antidepressants is:

- Gastric lavage and administration of activated charcoal
- Administration of acetylcysteine
- extrarenal Treatment
- massive Alkalinization by THAM

Question 466 [1.00 pt(s)]

What acid-base disorder is usually observed at the start of acute poisoning with salicylates?

- Respiratory acidosis
- Joint Acidosis
- Respiratory alkalosis
- Metabolic Acidosis

Question 467 [1.00 pt(s)]

All of these statements concerning cyclosporine are corrects EXCEPT :

- It is a highly lipophilic immunosuppressive drug
- It has a strong affinity for the erythrocyte
- It has low bioavailability
- It has essentially a hepatic elimination

Question 468 [1.00 pt(s)]

The Therapeutic Drug Monitoring is recommended for all the below drugs EXCEPT:

- Antiepileptics
- Aminoglycosides
- Digitalis
- Anti-vitamin K

Question 469 [1.00 pt(s)]

The therapeutic range for digoxin in adults is:

- 0.8 to 2 ng / mL
- 0.8 to 2 mg / mL
- 1 to 2.5 ng / mL
- 1.5 to 4 mg / mL

Question 470 [1.00 pt(s)]

Which of the following statements of Vancomycin is CORRECT?

- It is a Broad-Spectrum Antibiotic
- It has a half-life greater than 50 hours
- It is active against MRSA
- It is hematotoxic

Question 471 [1.00 pt(s)]

Phenytoin is characterized by all of the followings EXCEPT:

- Phenytoin is not bound to albumin
- It is mainly eliminated via CYP2C9
- Its clearance is concentration-dependant
- It induces a concentration dependant side effects

Question 472 [1.00 pt(s)]

All the following concerning isoniazid are correct EXCEPT:

- It mainly produces an inactive metabolite
- It presents a polymorphism in acetylation
- The dosage adjustment is primarily based on its $t_{1/2}$
- It induces a risk of hepatotoxicity in poor metabolizers

Question 473 [1.00 pt(s)]

Which of the following changes is observed in pregnant women:

- The pulmonary blood flow is decreased
- A significant increase in phase II metabolic reactions
- A significant increase in the apparent volume of distribution
- GFR is usually not altered

Question 474 [1.00 pt(s)]

All the following concerning the passage of a drug from the mother to the child via the mother's milk is true, EXCEPT:

- Only the unionized form of the drug diffuses into the milk through biological membranes.
- Weak acid drugs pass more easily than weak bases.
- Weak bases are trapped in the milk compartment

- Blood flow increases during breastfeeding

Question 475 [1.00 pt(s)]

The teratogenicity of all the following drugs has been shown EXCEPT for?

- Lithium
 Acyclovir
 Isotretinoin
 Valproic Acid

Question 476 [1.00 pt(s)]

The first- choice antipsychotic treatment in pregnant women is:

- Haloperidol
 Olanzapine
 Risperidone
 Clozapine

Question 477 [1.00 pt(s)]

Which of the following drugs is recommended as first anti-ulcer line treatment in pregnant women:

- Mg hydroxide + Al hydroxide
 Alginate
 Omeprazole
 Misoprostol

Question 478 [1.00 pt(s)]

Which of the following anti-ulcer drugs can be used to treat gastric ulcers in pregnant women:

- Ranitidine
 Omeprazole
 Rabeprazole
 Esomeprazole

Question 479 [1.00 pt(s)]

If a woman has been treated with thyroxine, when she becomes pregnant, she must:

- Stop immediately the treatment
 Stop processing to avoid kickback condition
 Continue thyroxine throughout pregnancy
 Do abortion

Question 480 [1.00 pt(s)]

Which of the following products is a preferred treatment for thyrotoxicosis in pregnant women:

- Metamizol
- Propranolol
- Non-radioactive iodine
- Propyl ThioUracil (PTU)

Question 481 [1.00 pt(s)]

A 17-year-old boy took a tablet of naproxen for headache. Naproxen is a weak acid with a pKa of 5.2. What percentage of the drug is most likely water soluble in the patient's plasma?

- 1%
- 50%
- 70%
- > 99%

Question 482 [1.00 pt(s)]

A 12-year-old boy recently diagnosed with type 1 diabetes started a therapy with two daily subcutaneous administrations of insulin. Which of the following transport mechanisms best explains the absorption of insulin from the site of injection?

- Passive diffusion
- Facilitated diffusion
- Endocytosis
- Active transport

Question 483 [1.00 pt(s)]

A 22-year-old woman suffering from asthma was prescribed albuterol by inhalation. Albuterol is a bronchodilator with a molecular weight of 239 Daltons. Which of the following transport mechanisms most likely accounts for the transfer of the drug through the bronchial mucosa?

- Aqueous diffusion
- Lipid diffusion
- Facilitated diffusion
- Active transport

Question 484 [1.00 pt(s)]

A 36-year-old woman recently treated with metronidazole for her trichomoniasis. The drug has a hepatic clearance of 4.86 L/h and a renal clearance of 0.54 L/h. On the assumption that only the liver and kidney are involved in the elimination of this drug, what percentage of the administered drug will be eliminated by the liver?

- 20%
- 50%
- 70%
- 90%

Question 485 [1.00 pt(s)]

A 59-year-old Japanese man with atrial fibrillation presented to his physician complaining of red urine. The man had been receiving a standard dose of warfarin

that is an anticoagulant drug biotransformed by CYP2C9 isozyme. Which of the following is the most likely cause of the patient's problem?

- Increased protein binding of warfarin
- Decreased renal excretion of warfarin
- Genetic polymorphism of CYP2C9
- Increased CYP2C9 synthesis in a person of Asian origin

Question 486 [1.00 pt(s)]

The pharmacokinetics of a new drug that follows first-order, one-compartment model kinetics was studied in a healthy volunteer. A 20-mg dose was given intravenously. The plasma concentration of the drug turned out to be 2 mg/L initially and 1 mg/L 2 hours later. What is the most likely volume of distribution of the drug (in liters)?

- 10
- 5
- 40
- 20

Question 487 [1.00 pt(s)]

A 63-year old man was recently diagnosed with hypertension; he started a treatment of HCTZ, one tablet daily. HCTZ is an acidic drug with a pKa of about 9. Which of the following parts of the digestive tract most likely represents the main site of absorption of that drug?

- Stomach
- Colon
- Rectum
- Small intestine

Question 488 [1.00 pt(s)]

A 69-year-old woman was brought to a local hospital emergency department by her son, who reported that his mother was found lethargic, disoriented, and combative a few hours earlier. In addition, she had ingested a large number of aspirin tablets in a suicide attempt. An appropriate therapy was instituted, which included the administration of sodium bicarbonate to increase the elimination of salicylate. Which of the following best explains the mechanism of the increased elimination?

- Decreased tubular active transport of salicylate
- Decreased bioavailability of salicylate
- Urinary ion trapping of salicylate
- Increased glomerular filtration of salicylate

Question 489 [1.00 pt(s)]

A 44-year-old man took a large dose of acetaminophen in aqueous solution to treat a strong headache. Two hours later, the pain was not still the same. Because acetaminophen should be effective in about 30 minutes after its oral administration, which of the following conditions most likely delayed the oral absorption of the drug in this patient?

- A moderate increase in intestinal peristalsis
- The presence of a strong pain

- A large volume of distribution of the drug
- A very low clearance of the drug

Question 490 [1.00 pt(s)]

A 4-year-old boy suffering from acute lymphoblastic leukemia was about to receive an intrathecal injection of methotrexate, a drug that cannot cross the blood–brain barrier. Which of the following statements best explains why methotrexate, cannot easily enter the brain?

- Cerebrospinal fluid pressure is lower than cerebral perfusion pressure.
- The pH of cerebrospinal fluid is lower than plasma pH.
- Endothelial cells of brain capillaries and choroid plexus have tight junctions.
- Methotrexate is completely ionized in blood

Question 491 [1.00 pt(s)]

Drug absorption is affected by food intake. Which of these Food-Drug interactions is incorrect:

- Tea delays the absorption of iron
- Milk slows the absorption of Fluor
- The absorption of ciprofloxacin is enhanced in the presence of milk
- The absorption of Itraconazole is enhanced in the presence of soft drinks/ carbonated beverages

Question 492 [1.00 pt(s)]

Enalapril is orally absorbed as enalaprilat that is an ethyl ester salt. This could be explained by the fact that the ester form:

- Is absorbed by an active transport system
- Undergoes hydrolysis in the stomach, thus it is dissolved faster
- It is more permeable to the intestinal membrane
- It has a lower molecular weight

Question 493 [1.00 pt(s)]

Which of the following statements is true regarding niacin?

- Absolutely contraindicated in patients with hyperuricemia
- Associated with risk of hypoglycemia
- SR niacin is the most hepatotoxic dosage form of niacin
- Highly effective for LDL-C reduction

Question 494 [1.00 pt(s)]

A 66 year-old male with CAD, DMII and HTN was started on bisoprolol and ramipril. Few days after starting the drug therapy he developed a severe swelling in his tongue and neck and could barely breathe. Which of the following would you recommend?

- Stop ramipril abruptly and start aliskiren
- Stop ramipril abruptly and start lisinopril
- Stop ramipril abruptly and start valsartan

- Continue ramipril and add valsartan

Question 495 [1.00 pt(s)]

SF is a 75 year old male with a baseline BP of 170mmHg, has been treated with valsartan 160mg and hydrochlorothiazide 25mg as a single pill taken once daily. He presents to the physician and his BP is 147/88mmHg. Which of the following would you recommend?

- Add amlodipine
 Add lisinopril
 Add furosemide
 No change in the regimen

Question 496 [1.00 pt(s)]

A 39 year-old pregnant female in her 7th month presents to her gynecologist for her monthly work up. Upon physical exam her BP is 158/95mmHg and urinalysis reveals proteinuria. Which of the following would you consider?

- No antihypertensive treatment since the SBP is <160mmHg
 Start lisinopril
 Start bisoprolol
 Start labetalol

Question 497 [1.00 pt(s)]

An 80-year-old man has a past medical history of hypertension (for the past 10 years), and migraine headaches. His BP today is 158/72 mm Hg (156/70 mm Hg when repeated), heart rate is 58 beats/minute, serum creatinine is 1.2 mg/dL, and potassium is 4.3 mEq/L. He is currently on lisinopril 40 mg daily and verapamil SR 240 mg daily, weighs 73 kg, is 70 in tall, smokes cigarettes 1 pack/daily, and consumes two to three ethanol-containing drinks weekly. Which is the most appropriate recommendation to add to his antihypertensive regimen?

- Spironolactone 25 mg daily
 Amlodipine 5 mg daily
 Losartan 50 mg daily
 Hydrochlorothiazide 12.5mg daily

Question 498 [1.00 pt(s)]

A 65 year-old male known to have hypertension and dyslipidemia, on amlodipine 5mg po once daily and atorvastatin 20mg po once daily respectively. He reports no symptoms and explains, "he has never felt any better". He presents today to the physician for regular follow up. His BP is 133/80mmHg which of the following would you consider?

- Keep on the same regimen and encourage on continued compliance to drug and non pharmacological treatment
 Increase the dose of amlodipine to 10mg orally once daily to reach a SBP<130mmHg
 Decrease the dose of amlodipine to 2.5mg once daily to increase the SB
 Add hydrochlorothiazide 25mg po once daily

Question 499 [1.00 pt(s) **Shuffle Disabled**]

A 65 year-old black female recently diagnosed with hypertension and diabetes. She is known to have hyperuricemia with 2 gout attacks in the previous year. Her lab tests are all normal and when asked about allergies, she has no known food or drug allergies. The physician is asking for your recommendation. Which of the following would you recommend according to JNC8 guideline?

- Hydrochlorothiazide (CI in gout)
- Nitrendipine
- Ramipril
- Any of the above

Question 500 [1.00 pt(s)]

A 65 year-old male with hypertension and diabetes developed recently renal dysfunction with albuminuria. Today his CrCl is 40ml/min and his BP is 148/95mmHg. What is the goal BP according to JNC8?

- <150/90mmHg
- <140/90mmHg
- <140/85mmHg
- <130/90mmHg

Question 501 [1.00 pt(s) **Shuffle Disabled**]

Which of the following statins is recommended for a pregnant woman with dyslipidemia?

- A- Atorvastatin
- B- Rosuvastatin
- C- Lovastatin
- D- None of the above

- Atorvastatin
- Rosuvastatin
- Lovastatin
- None of the above

Question 502 [1.00 pt(s)]

Which treatment would be most appropriate for a 58-year-old female with type 2 diabetes and total cholesterol 210 mg/dL, HDL cholesterol 52 mg/dL, triglycerides 958 mg/dL, and LDL cholesterol 131 mg/dL?

- Fenofibrate 160 mg daily
- Atorvastatin 40 mg daily
- Pravastatin 20 mg daily
- Cholestyramine twice daily

Question 503 [1.00 pt(s)]

A 45 year-old male overweight but otherwise healthy performed a routine yearly checkup. The results were the following: BP: 135/85mmHg, Fasting blood glucose 115mg/dl, TG180mg/dl, LDL195mg/dl, HDL38mg/dl. which of the following would you recommend at this point?

- Start antihypertensive drug with Hydrochlorothiazide
- Start antihyperlipidemic drug with simvastatin 40mg

- Start antihyperlipidemic drug with rosuvastatin 20mg
- Drug therapy is not yet indicated so just counsel on non-pharmacologic treatment

Question 504 [1.00 pt(s)]

A 56-year-old female who smokes two packs of cigarettes per day is admitted to the emergency room with severe left-sided chest pain and numbness down her left arm. She is diagnosed with acute coronary syndrome and her lipid profile was obtained in the emergency room and reveals the following: total cholesterol 229 mg/dL, HDL cholesterol 48 mg/dL, triglycerides 147 mg/dL, and LDL 152 mg/dl. What would be the most appropriate lipid-lowering therapy?

- Drug therapy is not beneficial and is not indicated
- Ezetimibe 10 mg daily
- Omega-3 fatty acids 1 g twice daily
- Atorvastatin 80 mg daily

Question 505 [1.00 pt(s)]

A 42-year-old woman with type 2 diabetes mellitus and HTN treated with a sulfonylurea, and ramipril respectively. Her TG340 mg/dL, and HDL42 mg/dL and LDL168mg/dl. Based on pooled cohort equations, it was found that DR's 10-yr risk for developing a ASCVD event is 6.7%. What is the most suitable drug to be initiated in DR at this stage?

- Lovastatin 20mg
- Simvastatin 10mg
- Atorvastatin 20mg
- Rosuvastatin 20mg

Question 506 [1.00 pt(s)]

A 38-year-old woman with hyperlipidemia presents to the primary care clinic with worsening muscle aches. Her total cholesterol was 268 mg/dL, her LDL was 167 mg/dL, her HDL was 42 mg/dL, and her triglyceride was 254 mg/dL during her last visit. The decision was made to add another lipid-lowering medication to her simvastatin. She never had muscle aches before and is wondering if the new medication is causing her new pain. What medication was most likely added to her simvastatin?

- Cholestyramine
- Colestipol
- Ezetimibe
- Gemfibrozil

Question 507 [1.00 pt(s)]

A 35 year old woman appears to have familial combined hyperlipidemia. Her serum concentrations of total cholesterol, LDL cholesterol, and triglycerides are elevated. Her serum concentration of HDL cholesterol is somewhat reduced. Which of the following drugs is most likely to increase this patient's triglyceride and VLDL cholesterol concentrations when used as monotherapy?

- Atorvastatin
- Cholestyramine
- Ezetimibe

- Gemfibrozil

Question 508 [1.00 pt(s)]

Which of the following is a major toxicity associated with gemfibrozil therapy?

- Bloating and constipation
- Cholelithiasis
- Hyperuricemia
- Liver damage

Question 509 [1.00 pt(s)]

The pleiotropic effects of statins include:

- Enhanced fibrinogen expression
- Decreased nitric oxide production
- Decreased inflammation
- Enhanced smooth muscle remodeling

Question 510 [1.00 pt(s)]

According to the new recommendations for cholesterol management from the ACC/AHA, all of the following patients should be considered for statin therapy except:

- A 30-year-old healthy man with an LDL of 165 mg/dL and no CV risk factors
- A 46-year-old healthy woman with a history of diabetes and an LDL of 80 mg/dL
- A 60-year-old man with an LDL of 110 mg/dL and a 10-year estimated risk for CV disease of 10 %
- A 45-year-old man with a history of ischemic stroke and unknown LDL level