



# Therapeutics Quizzes

020 Quizzes

**Collected by:**  
**Lana Khabbas, Rahaf Turab, Shahed Atiyat**

## Quiz 1

**1. Which of the following drugs is not correct for its monitoring sample?**

- A. Vancomycin – trough and (peak)
- B. Valproic acid - peak and trough
- C. Lithium - 12 hour post dose
- D. Carbamezepine – trough

Answer: B

**2. Which of the following drug is not associated with drug-induced asthma?**

- A. Ranitidine
- B. Naloxone
- C. Propranolol
- D. Aspirin
- E. Paracetamol

Answer: A

**3. What is the type of ADR seen in lymph node enlargement due to phenytoin?**

- A. Type A
- B. Type B
- C. Type C
- D. Type D
- E. Type E

Answer: B

**4. Which of the following regimens best mimics physiological insulin release?**

- A. NPH and Lispro morning, midday, evening
- B. Lispro morning, midday, evening, glargine bedtime
- C. NPH morning and evening

Answer: B

**5. Which of the following drugs increase the gut motility?**

- A. Opioids
- B. H1 blockers
- C. Phenothiazines
- D. Metoclopramide

Answer: D

**6. Which of the following is not a cause of medication non-adherence in elderly?**

- A. Complex regimen
- B. Dysmotility
- C. Dementia
- D. Misunderstanding
- E. Wrong dose

Answer: E

**7. Patient presented to the ER with acute asthma exacerbation, which of the following is NOT an initial management in ER?**

- A. Oxygen
- B. Inhaled beta 2 agonist
- C. Inhaled glucocorticoid
- D. ABG
- E. FEV1 and PEF

Answer: D

**8. Which of the following is an example of useful drug interaction?**

- A. Aspirin+garlic+heparin
- B. Phenytoin and cyclosporine
- C. propranolol and insulin
- D. Isoniazid and pyridoxine

Answer: D

**9. Which of the following reduces the bronchial hypersensitivity in asthma patients?**

- A. Beta 2 agonists
- B. Inhaled corticosteroids
- C. Muscarinic antagonists
- D. Leukotriene antagonists

Answer: B

**10. A 10 year old child presented with initially severely uncontrolled asthma, which of the following is the most suitable drug for management?**

- A. Low ICS & SABA
- B. Medium ICS & formoterol
- C. Low ICS & LABA
- D. Medium dose ICS and LABA plus as needed SABA

Answer:D

**11. Patient with epilepsy taking phenytoin was recommended by her doctor to take OCPs, after three months she got pregnant even with the use of OCPs, what is the type of ADR?**

- A. Type A
- B. Type B
- C. Type C
- D. Type E
- E. Type F

Answer: E

**12. Which of the following is the best drug for maintenance in asthma?**

- A. Beta 2 agonist

- B. Zafirlukast
- C. Theophylline

Answer: B

**13. Which of the following drug is considered a relatively safe drug for treating elderly patient with DM2?**

- A. Insulin
- B. Sulfonylurea
- C. Dapagliflozin
- D. Sitagliptin
- E. Thiazolidinediones

Answer: D

**14. Which of the following insulin regimens has the shortest duration of action:**

- A. Insulin detemir
- B. Insulin lispro
- C. Insulin glargine
- D. NPH insulin
- E. Regular insulin

Answer: B

**15. Which LABA has rapid onset of action?**

- A. Indacaterol
- B. Formeterol
- C. Salmeterol
- D. Metaprotenerol

Answer: B

**16. Which of the following drugs is avoided in elderly with creatinine clearance less than 30 ml/min:**

- A. Ciprofloxacin
- B. Spironolactone
- C. Gabapentin
- D. Vancomycin

Answer: B

**17. Which of the following does not work directly by inhibiting drug metabolizing enzymes:**

- A. Erythromycin with carbamezipine toxicity
- B. Lansoprazole inhibiting clopidogrel activity
- C. Allopurinol increasing 6 mercaptopurine activation
- D. H1 blockers producing lidocaine toxicity
- E. Grapefruit juice decreases the bioavailability of calcium channel blockers?

Answer: D

**18. Which of the following does not work through enzyme induction:**

- A. Broccoli
- B. Cigarette smoking
- C. Rifampicin
- D. Chamomile
- E. St John's wart

Answer: D

**19. What is the mechanism of Non steroidal anti-inflammatory drugs induced methotrexate toxicity:**

- A. Induction of metabolism and drug accumulation
- B. Inhibition of metabolism and drug accumulation
- C. Inhibition of active renal tubular excretion
- D. Displacement of methotrexate from albumin binding sites

Answer: C

**20. Which of the following is not correct about therapeutic drug monitoring by clinical practice:**

- A. It is inferior to measuring plasma drug concentration
- B. It depends on continuous graded biological response
- C. It is related to the pharmacological effect of the drug
- D. It is quantifiable
- E. It can be used to detect drug adverse effects

Answer: A

**21. Which of the following is not correct about denosumab:**

- A. As the drug is discontinued, the effect of therapy dissipates
- B. Hypocalcemia should be normalized before giving the drug
- C. It is indicated for men who are at high risk of fractures treated with androgen deprivation therapy (GnRH agonists) for prostate cancer
- D. It is indicated for women at high risk of fractures who are treated with aromatase inhibitor therapy for breast cancer
- E. It is inferior in effect on BMD compared to weekly alendronate

Answer: E

**22. Which of the following is not correct about calcium absorption:**

- A. It is reduced with dietary fibers
- B. It may be reduced in smokers
- C. It is reduced in alcoholics
- D. It is reduced in dietary fat
- E. It is reduced by laxatives

Answer: D

**23. Which of the following is not correct about vitamin D deficiency:**

- A. It may be caused by hepatic and renal dysfunction

- B. It happens in regular sunscreen use
- C. It happens in darkly pigmented skin
- D. It may happen with coadministered bisphosphonates
- E. It may be caused by orlistat and some antiseizure drugs

Answer: D

**24. Which of the following is most suggestive of a causal relation between the drug and adverse effect according to Naranjo scale:**

- A. The effect did not appear after drug administration
- B. The adverse effect didn't improve after discontinuation of the drug
- C. The effect appeared after the placebo was given
- D. The effect increased when the dose increased
- E. The effect is mentioned in the literature for the first time

Answer: D

**25. Which of the following drugs that should not be used in elderly is not matched with acceptable cause of avoiding it according to beers criteria:**

- A. Antidepressants-dependence and abuse
- B. Alpha adrenergic blockers-postural hypotension
- C. H1 receptor blockers-urine retention
- D. Metoclopramide-increased risk of dyskinesia
- E. Proton pump inhibitors-increased risk of clostridium difficile infection

Answer: A

**26. Which of the following drug combinations will cause hyperkalemia:**

- A. Metolazone and furosemide
- B. Lisinopril and amiloride
- C. Hydrocortisone and furosemide

Answer: B

**27. Which of the following is correct regarding adverse drug reactions:**

- A. Occur at overdose
- B. May have beneficial unintended effects
- C. Warrant prevention and specific treatment
- D. There must be a mechanism of action known to be linked with the drug
- E. They are present in low percentage in primary care relative to inpatients

Answer: C

**28. Which of the following drug induced DM is mismatched with mechanism:**

- A. Cyclosporine-may cause insulin resistance
- B. Clozapine-weight gain and insulin resistance
- C. HIV protease inhibitors-relative hyperglucagonemia
- D. Interferon-beta cell destruction
- E. Nicotinic acid-increase hepatic glucose production

Answer: E

**29. Which of the following isn't a contraindication of metformin:**

- A. Congestive heart failure
- B. Dyslipidemia
- C. Renal failure
- D. Metabolic acidosis
- E. Respiratory disease

Answer: B

**30. Which of the following is not an adverse effect of bisphosphonates:**

- A. Esophageal ulceration and perforation
- B. Atypical subtrochanteric femoral fractures
- C. Osteonecrosis of the jaw
- D. Hypercalcemia
- E. Peptic ulcer perforation

Answer:D

**31. Which of the following is a useful drug interaction:**

- A. Fluticasone and salmeterol
- B. Metalazone and furosemide

Answer: A

**32. Which of the following drugs is best for therapeutic drug monitoring:**

- A. High therapeutic index
- B. Inter-individual variability in plasma drug concentration of the same dose
- C. Decreased effect with the same concentration
- D. Drugs that irreversibly bind with covalent binding

Answer: B

**33. Which of the following Diabetes drugs is associated with weight loss:**

- A. Insulin
- B. GLP 1 agonists
- C. Sulfonylureas
- D. Thiazolidinediones
- E. Meglitinides

Answer: B

**34. Which of the following drugs has a smaller volume of distribution in the elderly:**

- A. Diazepam
- B. Gentamicin
- C. Metronidazole
- D. Propranolol

Answer: B

**35. Which of the following herbs if given continuously antagonizes antihypertensive drugs:**

Answer: Liquorice

**36. Which of the following drugs is mismatched with its side effect:**

- A. Canagliflozin-hypotension
- B. Sitagliptin-nasopharyngitis
- C. Exentide-acute pancreatitis
- D. Thiazolidinediones-thirst

Answer: D

**37. Which of the following is true about bisphosphonates:**

- A. Effect disappears after discontinuation of the drug
- B. You should drink 180 ml of plain water when taking them, being upright for at least 30 minutes
- C. If the patient misses a monthly dose more than 8 days, he should wait for the next month

Answer: B

**38. Which of the following is NOT correct about diabetes management:**

- A. All patients should do lifestyle modification
- B. Non obese patients are more likely given medications to increase insulin secretion
- C. Obesity-healthy eating diet to sustain weight loss
- D. Low dose Aspirin is given to ischemic heart disease patients for secondary cardioprotection
- E. Sulfonylureas for renal impairment

Answer: E

**39. Which of the following is not correct about therapeutic drug monitoring:**

- A. Plasma drug concentration is measured after the distribution is completed
- B. Plasma drug concentration is used at the terminal phase of beta elimination
- C. Sampling is only useful if the drug concentration in the body is at steady state
- D. Random sampling in monitoring may be suitable
- E. Plasma drug concentrations must always be interpreted in the context of the patient's clinical status

Answer: D

**40. Which of the following is not correct about drug interactions:**

- A. Flouroquinolones absorption is decreased by diary products
- B. Cholestyramine decreases the absorption of thyroxine
- C. Bisphosphonates decrease the absorption of calcium
- D. PPI increase the absorption of aspirin
- E. Grapefruit juice increases bioavailability of nifedipine and felodipine

Answer: D



**41. Which of the following best describes the use of pramlintide?**

- A. It can be mixed with the same injection with insulin
- B. It should be used prior to meals to decrease post prandial hyperglycemia
- C. It can be substituted by some insulin doses

**Answer: B**

## Quiz 2

**1. Which of the following is given to reduce multiple cardiovascular risk factors in hypertension?**

ACEI and statins

**2. Which of the following is not matched with its adverse effect?**

- A. Nitroglycerin -throbbing headache
- B. Enalaprilat-hypotension
- C. Esmolol-heart block
- D. Sodium nitroprusside-methemoglobinemia

**3. Which of the following causes hypertension by sodium and water retention?**

- A. Amphetamines
- B. Licorice
- C. Alcohol

**4. Which of the following is not true about anticoagulant and management in excessive anticoagulation?**

- A. Heparin - protamine sulfate
- B. Warfarin-Vitamin K
- C. Bivalirudin -discontinue the drug
- D. Fondaparinux-hemodializable

**5. Which of the following is not a risk factor for congenital malformations?**

- A. Genetic susceptibility of the infant
- B. Mother between 18 and 35
- C. Mother between 14 -16

**6. Which of the following is not true about drug and its adverse effect?**

- A. Spironolactone-gynecomastia
- B. Eplerenone-polyuria
- C. Ivabradine- atrial fibrillation
- D. Vericiguat-teratogenic

**7. Which of the following increases anticoagulant effect of warfarin?**

- A. Green tea
- B. Nicotine
- C. Barbiturates
- D. Garlic

**8. Which of the following causes malformations through disruption of normal process of cellular differentiation?**

- A. Isotretinoin

- B. Alcohol
- C. Bosentan

**9. Which category of FDA pregnancy categories information about fetal risk is not available but risk can not be ruled out?**

- A. Category A
- B. Category B
- C. Category X
- D. Category C
- E. Category D

**10. Which of the following is the most affected period in malformations?**

- A. After blastogenesis
- B. Between 2 to 8 weeks
- C. 8th week -birth
- D. 7th week of development
- E. 9th week of development

**11. Which of the following drugs which exacerbate or precipitate heart failure do that by direct cardiotoxicity?**

- A. Verapamil
- B. Trastuzumab

**12. Which of the following decreases milk production?**

- A. Barley
- B. Cabergoline
- C. Domperidone
- D. Fenugreek

**13. Which of the following drugs is actively pumped into breast milk?**

- A. Chloramphenicol
- B. Ciprofloxacin
- C. Heparin
- D. Iodides
- E. Warfarin

**14. Which of the following is the duration of treatment of first acute VTE?**

- A. 10 days
- B. Three months
- C. One month
- D. Six months
- E. One year

**15. Which of the following drugs raises LDL while treating hypertriglyceridemia?**

- A. Statins

B. Fibrates

**16. Which of the following is not a teratogen and pregnant women can take it when needing it?**

- A. Methotrexate
- B. Cyclophosphamide
- C. Warfarin
- D. Amoxicillin

**17. Which of the following drugs that cause hypertension do that by vasoconstriction?**

- A. Anabolic steroids
- B. NSAIDs
- C. Estrogen containing oral contraceptives
- D. Erythropoietin
- E. Corticosteroids

**18. Which of the following is not part of the cascade of ventricular remodeling?**

- A. Angiotension II
- B. Atrial natriuretic peptide
- C. Norepinephrine
- D. Certain inflammatory mediators

**19. Which of the following is not part of secondary prevention of STEMI and Non STEMI-Acute coronary syndrome?**

- A. Abciximab
- B. Beta blocker
- C. Aspirin
- D. High intensity statins
- E. Angiotension converting enzyme inhibitors

**20. Which of the following is wrong match about anticoagulant and monitoring?**

- A. Unfractionated Heparin - aPTT
- B. Low molecular weight heparin - anti Xa level
- C. Fondaparinux-Anti Xa level
- D. Bivalirudin-thrombin inhibitor assay
- E. Rivaroxaban-aPTT

**21. Which of the following is true about drugs that have high fetal blood levels?**

- A. Acidic  $pK_a < 7.4$
- B. Water soluble
- C. Low maternal protein binding
- D. Basic  $pK_a > 7.4$

**22. Which of the following is not true about management of hypertensive urgencies?**

- A. Increasing antihypertensive dose
- B. Short-acting antihypertensive labetalol
- C. Decreasing hypertension to stage 1 over several hours to days
- D. Oral or sublingual nifedipine
- D. Oral therapy

**23. Which of the following is not true about ARB/Neprilysin inhibitor?**

(Sacubitril/Valsartan)

- A. It causes vasodilation
- B. It causes diuresis
- C. It reduces production of aldosterone
- D. It is used when ACEI are contraindicated

**24. Which of the following is not true about non pharmacological management of stage C heart failure?**

- A. Teaching heart failure self care
- B. Vaccination against respiratory infections
- C. Decreasing excessive sodium intake
- D. Decreasing regular physical activity

**25. Which of the following is the first step in management of patient presented with chronic heart failure?**

- A. Revascularization therapy
- B. Identify the cause
- C. Admission to the hospital