

NABP FPGEE Exam

Volume: 426 Questions

Question No: 1

In a zero order elimination process, which of the following is true?

- A. The removal of drug is independent of drug concentration
- B. $Cl = \text{Elimination rate}/C_p$
- C. $t_{1/2} = .7VD/Cl$
- D. All are true

Answer: A

Question No: 2

For highly polar drugs (e.g. mannitol) what primarily determines elimination rate?

- A. Excretion rate
- B. Metabolism rate
- C. Absorption rate
- D. Distribution rate
- E. All of the above

Answer: A

Question No: 3

Bioavailability is related to which of the following parameters, according to the equation $F = 1 - E$

- A. Excretion
- B. Elimination
- C. Extraction Ratio
- D. Enterohepatic Recycling

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Answer: C

Question No: 4

For the majority of drugs, which of the following equations correctly defines clearance?

- A. $Cl = \text{Elimination rate}/C_p$
- B. $Cl = Q \times E$
- C. $Cl = .7VD/t_{1/2}$
- D. All are correct

Answer: D

Question No: 5

How much of a 10 mg dose of morphine reaches the systemic circulation given $F = .24$?

- A. 24mg
- B. 0.24 mg
- C. 2.4 mg
- D. 4.1 mg

Answer: C

Question No: 6

Given that the $VD = 230 \text{ L}/70\text{Kg}$ and $Cl = 60 \text{ L/hr}/70 \text{ Kg}$ for morphine, approximately how much of a 10 mg IV dose remains after 8 hr, given to a normal 70 Kg patient?

- A. 5 mg
- B. 2.5 mg
- C. 1.25 mg
- D. 625 mg

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Answer: C

Question No: 7

Given $F = .24$, what is the overall hepatic clearance of morphine if the above patient has portal hypertension such that their hepatic blood flow is reduced by $.5$? Assume the clearance value given in the previous question is entirely hepatic clearance.

- A. 30 L/hr/70 Kg
- B. 60 L/hr/70 Kg
- C. 120 L/hr/70 Kg
- D. 250 L/hr/70 Kg

Answer: A

Question No: 8

Which of the following enzymes could directly act on codeine?

- A. Glucuronyl transferase
- B. Sulfotransferase
- C. Glutathione transferase
- D. A & B
- E. All of the above

Answer: D

Question No: 9

Which Cytochrome P450 isozyme does not participate appreciably in drug metabolism?

- A. CYP1A2
- B. CYP2C9
- C. CYP3A4

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D. CYP51

E. All are drug metabolizing isoforms

Answer: D

Question No: 10

Which of the following Cytochrome P450 isozymes is responsible for the bulk of phase I metabolism?

A. CYP1A2

B. CYP2C9

C. CYP2D6

D. CYP3A4

E. CYP51

Answer: E

Question No: 11

Which of the following enzymes could metabolize ethanol?

A. Cytochrome P450

B. Alcohol Dehydrogenase

C. Glucuronyl Transferase

D. Sulfotransferase

E. All of the above

Answer: E

Question No: 12

Which of the following are similarities between Cytochrome P450 and MAO?

A. Both add oxygen from O₂ to substrates and also form water

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- B. Both carry out direct heteroatom oxidations
- C. Both carry out oxidative deaminations
- D. Both carry out N-dealkylations
- E. All of the above

Answer: C

Question No: 13

What would be the preferred route of metabolism of succinyl choline?

- A. Ester hydrolysis
- B. N-oxidation
- C. Glucuronide conjugation
- D. A & B
- E. All of the above

Answer: C

Question No: 14

Which of the following causes the smallest change in solubility?

- A. Hydroxylation
- B. Glucuronidation
- C. Sulfation
- D. Glutathione conjugation

Answer: A

Question No: 15

Cigarette smoke causes an increase in levels of CYP1A isozymes. Theophylline is primarily metabolized

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by the CYP1A system. What would happen to theophylline clearance for an asthmatic patient in hospital who could not smoke?

- A. No change
- B. Increase
- C. Decrease

Answer: C

Question No: 16

Which of the following is the antidote for the toxin Benzodiazepines?

- A. Flumazenil
- B. Methylene blue
- C. Deferoxamine
- D. Alkalinize urine

Answer: A

Question No: 17

Which of the following is the antidote for the toxin Lead?

- A. Naloxone
- B. Nitrite
- C. CaEDTA
- D. Dialysis

Answer: C

Question No: 18

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

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- A. Kidney
- B. Liver
- C. Blood
- D. Heart

Answer: B

Question No: 19

Lansoprazole is not used in which of the following cases?

- A. Gastritis
- B. Peptic Ulcers
- C. Zollinger-Ellison syndrome
- D. Thalamus hypertrophy

Answer: D

Question No: 20

Which of the following drugs is associated with the reaction of Cinchonism?

- A. Valproic acid
- B. Quinidine
- C. Isoniazid
- D. Ethosuximide

Answer: B

Question No: 21

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

- A. Valproic acid

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B. Quinidine

C. Isoniazid

D. Ethosuximide

Answer: C

Question No: 22

Which of the following drugs is associated with the reaction of Stevens-Johnson syndrome?

A. Valproic acid

B. Quinidine

C. Isoniazid

D. Ethosuximide

Answer: D

Question No: 23

Which of the following drugs is associated with the reaction of Tendon dysfunction?

A. Digitalis

B. Niacin

C. Tetracycline

D. Fluoroquinolones

Answer: D

Question No: 24

A drug ending in the suffix (pril) is considered a _____.

A. H₂ agonist

B. ACE inhibitor

C. Antifungal

D. Beta agonist

Answer: B

Question No: 25

A drug ending in the suffix (azole. is considered a _____.

A. H2 agonist

B. ACE inhibitor

C. Antifungal

D. Beta agonist

Answer: C

Question No: 26

A drug ending in the suffix (tidine. is considered a _____.

A. Antidepressant

B. Protease inhibitor

C. Beta antagonist

D. H2 antagonist

Answer: B

Question No: 27

A drug ending in the suffix (navir) is considered a _____.

A. Antidepressant

B. Protease inhibitor

C. Beta antagonist

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D. H2 antagonist

Answer: C

Question No: 28

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

A. Digitalis

B. Niacin

C. Tetracycline

D. Fluoroquinolones

Answer: C

Question No: 29

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

A. Cataracts

B. Hypotension

C. Psychosis

D. Acne

Answer: B

Question No: 30

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

A. CHF

B. Tachycardia

C. AV block

D. Sedative appearance