

PHARMACOLOGY KATZUNG MCQs [@RALE137]

GENERAL PRINCIPLES

1. A 3-year-old is brought to the emergency department having just ingested a large overdose of diphenhydramine, an antihistaminic drug. Diphenhydramine is a weak base with a pKa of 8.8. It is capable of entering most tissues, including the brain. On physical examination, the heart rate is 100/min, blood pressure 90/50 mm Hg, and respiratory rate 20/min. Which of the following statements about this case of diphenhydramine overdose is most correct?

- (A) Urinary excretion would be accelerated by administration of NH_4Cl , an acidifying agent
- (B) Urinary excretion would be accelerated by giving NaHCO_3 , an alkalinizing agent
- (C) More of the drug would be ionized at blood pH than at stomach pH
- (D) Absorption of the drug would be faster from the stomach than from the small intestine
- (E) Hemodialysis is the only effective therapy

2. Botulinum toxin is a large protein molecule. Its action on cholinergic transmission depends on an intracellular action within nerve endings. Which one of the following processes is best suited for permeation of very large protein molecules into cells?

- (A) Aqueous diffusion
- (B) Aqueous hydrolysis
- (C) Endocytosis
- (D) Lipid diffusion
- (E) Special carrier transport

3. A 60-year-old patient with severe cancer pain is given 10 mg of morphine by mouth. The plasma concentration is found to be only 30% of that found after intravenous administration of the same dose. Which of the following terms describes the process by which the amount of active drug in the body is reduced *after* administration but *before* entering the systemic circulation?

- (A) Excretion
- (B) First-order elimination
- (C) First-pass effect
- (D) Metabolism
- (E) Pharmacokinetics

4. A 12-year-old child has bacterial pharyngitis and is to receive an oral antibiotic. Ampicillin is a weak organic acid with a pKa of 2.5. What percentage of a given dose will be in the lipid-soluble form in the duodenum at a pH of 4.5?

- (A) About 1%
- (B) About 10%
- (C) About 50%
- (D) About 90%
- (E) About 99%

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Marco Cascella



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