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Chapter 2: Pharmacokinetics

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Multiple Choice Questions

1. Which of the following statements best describes pharmacokinetics?
   *A. It is what the body does to the drug
   B. It is what the drug does to the body
   C. It is the therapeutic monitoring of the drug
   D. It is how a disease affects a drug
   Answer: Correct answer is option (A).

2. An essential hypothesis of pharmacokinetics is:
   A. The dose must correlate with the pharmacological effect
   B. Adverse reactions must correlate with plasma concentrations
   C. There is a qualitative relationship between dose and pharmacological effect
   *D. There is a quantitative relationship between drug concentration and pharmacological effect
   Answer: Correct answer is option (D).

3. A therapeutic drug monitoring protocol would include which of the following factors?
   A. Ethnicity
   B. Socioeconomic status
   *C. Defined therapeutic endpoints
   D. Smoking history
   Answer: Correct answer is option (C).

4. Which of the following affects the absorption of a drug?
   A. Clearance
   *B. Route of delivery
   C. Plasma pH
   D. Patient body weight
   Answer: Correct answer is option (B).

5. Drug interactions involving cytochrome P450 enzymes may:
   A. Increase drug concentrations
   B. Decrease drug concentrations
   C. Increase distribution
   *D. A and B
   Answer: Correct answer is option (D).

6. Bioavailability is defined as:
   A. The amount of drug made available following metabolism
   B. The amount of drug present in the plasma following distribution

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*C. The extent of drug absorption, or the percentage or fraction of the parent compound that reaches systemic (plasma) circulation
D. The extent of drug absorption following metabolism and excretion
Answer: Correct answer is option (C).

7. Creatinine clearance is an estimate of:
*A. Glomerular filtration
B. Hepatic metabolism
C. Biliary excretion
D. Pulmonary excretion
Answer: Correct answer is option (A).

8. If a drug has a small value for volume of distribution, V_d, it is most likely residing in the:
A. Brain
*B. Blood
C. Bone
D. Spleen
Answer: Correct answer is option (B).

9. The loading dose for a patient can be calculated using:
*A. V_d and Cp_{target}
B. Cl and F
C. V_d and Cl
D. Cp_{target} and F
Answer: Correct answer is option (A).

10. Half-life is useful for estimating:
A. Clearance
B. Volume of distribution
*C. The time to reach steady-state
D. Absorption
Answer: Correct answer is option (C).

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