

# Test Bank for Advanced Pharmacology for Prescribers 1st Luu

TEST BANK SAMPLE PREVIEW

PUBLISHER

**Springer Pub**

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**2022**

RESOURCE TYPE

**Test Bank**

ISBN

**9780826195463**

## Chapter 2: Pharmacokinetics

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*Patrick Chan and James Uchizono*

### 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

- \*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  $C_{p_{target}}$

B.  $Cl$  and  $F$

C.  $V_d$  and  $Cl$

D.  $C_{p_{target}}$  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).