

# Chapter 3

## Pharmacokinetics and Pharmacodynamics

### OBJECTIVES

1. Differentiate the three phases of drug action.
2. Describe the four processes of pharmacokinetics.
3. Identify the four receptor families.
4. Describe the influence of protein binding on drug bioavailability.
5. Check drugs for half-life, percentage of protein binding, therapeutic index, and side effects in a drug reference book.
6. Differentiate the four types of drug interactions.
7. Explain the three mechanisms involved with drug-drug interactions.
8. Describe the effects of drug-nutrient interactions.
9. Explain the meaning of drug-induced photosensitivity.
10. Describe the nursing implications of pharmacokinetics and pharmacodynamics.

### Pharmacokinetics

- The process of drug movement throughout the body necessary to achieve drug action.
- What the body does to the drug
- Composed of four processes:
  1. Absorption
  2. Distribution
  3. Metabolism
  4. Excretion
- **Drug absorption**
  - The movement of the drug into the bloodstream after administration.
  - Approximately 80% of drugs are taken by mouth (enteral).
    - These are the only drugs to pass through the GI tract
    - For the body to use drugs taken by mouth, a drug in a solid form (e.g., tablet or capsule) must disintegrate into small particles and combine with a liquid to form a solution, a process known as *dissolution* (drugs in a liquid form are already in solution), to be absorbed from the GI tract into the bloodstream
  - Tablets are not 100% drug. Fillers and inert substances – such as simple syrup, vegetable gums, aromatic powder, honey, and various elixirs – called *excipients* are used in drug preparation to allow the drug to take on a particular size and shape and to enhance drug dissolution.
  - **Disintegration** - Breakdown of oral drug form into small particles
  - **Dissolution** - Combining small drug particles with liquid to form a solution
    - The rate of dissolution is the time it takes the drug to disintegrate and dissolve to become available for the body to absorb it.

# Answer Key For Pharmacology Technician 4 Edition

**CH Cherryholmes**



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### **Table of Contents Answer Key For Pharmacology Technician 4 Edition**

1. Understanding the eBook Answer Key For Pharmacology Technician 4 Edition
  - The Rise of Digital Reading Answer Key For Pharmacology Technician 4 Edition
  - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key For Pharmacology Technician 4 Edition
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Answer Key For Pharmacology Technician 4 Edition
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key For Pharmacology Technician 4 Edition
  - Personalized Recommendations
  - Answer Key For Pharmacology Technician 4 Edition User Reviews and Ratings

- Answer Key For Pharmacology Technician 4 Edition and Bestseller Lists
- 5. Accessing Answer Key For Pharmacology Technician 4 Edition Free and Paid eBooks
  - Answer Key For Pharmacology Technician 4 Edition Public Domain eBooks
  - Answer Key For Pharmacology Technician 4 Edition eBook Subscription Services
  - Answer Key For Pharmacology Technician 4 Edition Budget-Friendly Options
- 6. Navigating Answer Key For Pharmacology Technician 4 Edition eBook Formats
  - ePub, PDF, MOBI, and More
  - Answer Key For Pharmacology Technician 4 Edition Compatibility with Devices
  - Answer Key For Pharmacology Technician 4 Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answer Key For Pharmacology Technician 4 Edition
  - Highlighting and Note-Taking Answer Key For Pharmacology Technician 4 Edition
  - Interactive Elements Answer Key For Pharmacology Technician 4 Edition
- 8. Staying Engaged with Answer Key For Pharmacology Technician 4 Edition
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answer Key For Pharmacology Technician 4 Edition
- 9. Balancing eBooks and Physical Books Answer Key For Pharmacology Technician 4 Edition
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answer Key For Pharmacology Technician 4 Edition
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key For Pharmacology Technician 4 Edition
  - Setting Reading Goals Answer Key For Pharmacology Technician 4 Edition
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key For Pharmacology Technician 4 Edition
  - Fact-Checking eBook Content of Answer Key For Pharmacology Technician 4 Edition
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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