

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.

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Ying Liu



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Table of Contents Chapter 3basic Pharmacology Answer Key

1. Understanding the eBook Chapter 3basic Pharmacology Answer Key
 - The Rise of Digital Reading Chapter 3basic Pharmacology Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 3basic Pharmacology Answer Key
 - 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 Chapter 3basic Pharmacology Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 3basic Pharmacology Answer Key
 - Personalized Recommendations

- Chapter 3basic Pharmacology Answer Key User Reviews and Ratings
- Chapter 3basic Pharmacology Answer Key and Bestseller Lists
- 5. Accessing Chapter 3basic Pharmacology Answer Key Free and Paid eBooks
 - Chapter 3basic Pharmacology Answer Key Public Domain eBooks
 - Chapter 3basic Pharmacology Answer Key eBook Subscription Services
 - Chapter 3basic Pharmacology Answer Key Budget-Friendly Options
- 6. Navigating Chapter 3basic Pharmacology Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 3basic Pharmacology Answer Key Compatibility with Devices
 - Chapter 3basic Pharmacology Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 3basic Pharmacology Answer Key
 - Highlighting and Note-Taking Chapter 3basic Pharmacology Answer Key
 - Interactive Elements Chapter 3basic Pharmacology Answer Key
- 8. Staying Engaged with Chapter 3basic Pharmacology Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 3basic Pharmacology Answer Key
- 9. Balancing eBooks and Physical Books Chapter 3basic Pharmacology Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 3basic Pharmacology Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 3basic Pharmacology Answer Key
 - Setting Reading Goals Chapter 3basic Pharmacology Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 3basic Pharmacology Answer Key
 - Fact-Checking eBook Content of Chapter 3basic Pharmacology Answer Key

- 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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