

# 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.

# Chapter 3 and 3basic Pharmacology Answers

**Bruce D. Clayton, Yvonne N. Stock**



## **Chapter 3 and 3basic Pharmacology Answers:**

*Study Guide for Clayton's Basic Pharmacology for Nurses - E-Book* Michelle J. Willihnganz, 2025-03-21 Reinforce your understanding of nursing pharmacology and prepare for success on the NCLEX PN exam With chapters corresponding to the chapters in Clayton's Basic Pharmacology for Nurses 20th Edition this study guide provides a variety of exercises to help you review and practice the LPN LVN's role in drug therapy and patient care Review questions make it easier to achieve the chapter objectives from the textbook and patient scenarios help you develop clinical judgment skills Next Generation NCLEX NGN style questions ensure that you will be ready for the critical thinking questions on the NGN exam NEW Three new chapters address key topics Drugs Used to Treat Immune and Inflammatory Disorders Drugs Used to Treat Headaches and Drugs Used to Treat Attention Deficit Hyperactivity Disorder NEW Updated exercises cover the new content in the text including newly approved pharmaceutical drugs and treatments Case scenarios in clinical chapters allow you to review practice and apply clinical judgment skills Reader friendly writing style and organization make it easier to review and practice nursing pharmacology concepts A variety of exercises including matching multiple choice select all that apply and Next Generation NCLEX NGN style questions help reinforce your understanding of key content [Study Guide for Gould's Pathophysiology for the Health Professions - E-Book](#) Robert J. Hubert, Karin C. VanMeter, 2017-11-28 Master key pathophysiology concepts and apply them to the practice setting Corresponding to the chapters in Gould's Pathophysiology for the Health Professions 6th edition this study guide offers a wide range of engaging activities to reinforce your understanding and practice your skills To make studying easier an answer key is included in the back of the book UPDATED chapters reflect the text's logical systematic approach Learning activities provide a variety of ways to assess your knowledge or identify areas for further study including labeling exercises matching exercises on important terminology application questions that apply to more complex situations crossword puzzles and compare contrast completion charts The answer key for all of the activities is provided at the end of the study guide [Mosby's Comprehensive Review of Nursing for the NCLEX-RN® Examination](#) Patricia M. Nugent, Judith S. Green, Mary Ann Hellmer Saul, Phyllis K. Pelikan, 2011-11-08 A classic resource that has helped nurses pass the NCLEX exam for over 60 years Mosby's Comprehensive Review of Nursing for the NCLEX RN Examination 20th Edition is fully updated to reflect the newest NCLEX RN test plan Content review is presented in a concise and full color outline format organized by the core areas of medical surgical pediatric maternity women's health and mental health nursing with a practice test following each unit More than 4 200 practice questions and rationales including more than 600 questions in the newest alternate item formats are written by a team of trusted NCLEX experts led by author Patricia M Nugent This title includes additional digital media when purchased in print format For this digital book edition media content may not be included **Essentials of Psychiatric Mental Health Nursing - E-Book** Elizabeth M. Varcarolis, 2016-07-22 Awarded third place in the 2017 AJN Book of the Year Awards in the Psychiatric and Mental Health

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Understanding Pharmacology - E-Book M. Linda Workman, Linda A. LaCharity, 2015-10-29 Pharmacology can be difficult But with the right text understanding drugs and how they work doesn't have to be Using easy to follow language and engaging learning tools like Memory Joggers Clinical Pitfalls Do Not Confuse and Drug Alerts the second edition of Understanding Pharmacology Essentials for Medication Safety helps readers really understand how drugs work In addition to the popular critical thinking activities from the first edition the second edition also includes more chapter review questions updated content and a new organization that centers on the different body systems For students who have a limited background in the sciences and want complete preparation for licensure exams and clinical practice there is no better choice than Understanding Pharmacology 2nd Edition Entire unit reviewing math weights and measures and dosage calculation minimizes readers anxiety and promotes medication safety Clever easy to recognize margin icons help visual learners remember essential side effects of drugs Simplified heading structure replaces intimidating terminology i.e. pharmacokinetics

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