

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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Workbook for the Manual for Pharmacy Technicians Mary B. McHugh, 2013-01-01 This brand new companion workbook contains additional exercises assessment activities for every chapter of the Manual for Pharmacy Technicians 4th Edition It incorporates a wide range of questions activities such as multiple choice short answer fill in the blank matching terms crossword true or false cryptograms puzzles and research questions This resource includes more than 700 exercises and can be used by individual students practitioners for self assessment in conjunction with the Manual or used in class by instructors for exercises and activities Visit www.ashp.org/techworkbook for an online bonus quiz of 50 additional questions Complete your technician training with the Workbook for the Manual for Pharmacy Technicians along with the Manual for Pharmacy Technicians 4th edition and the Pharmacy Technician Certification Review and Practice Exam *The VIRGINIA Pharmacy Technician Training Manual, 4th Ed*, *Pharmacology for Pharmacy Technicians - E-Book* Kathy Moscou, Karen Snipe, 2024-01-18 Build a solid foundation in pharmacology with this all in one resource Combining a comprehensive textbook with workbook exercises Pharmacology for Pharmacy Technicians 4th Edition helps you understand the principles of pharmacology and apply them to the daily activities and challenges seen in the practice setting Full color photos and illustrations make it easier to master concepts and an in depth review designed specifically for pharmacy technicians meets the requirements of the American Society of Health System Pharmacists ASHP for anatomy and physiology and pharmacology Written by a pharmacist and a pharmacy technician Kathy Moscou and Karen Snipe each with extensive experience in the field this book helps you master the expanding role of the pharmacy technician and launch a successful and rewarding career in Pharmacy Technology Comprehensive coverage aligns with advanced level ASHP competencies for accreditation and prepares you for certification Practical Pharm Tech features include Tech Alerts highlighting drug look alike and sound alike issues Tech Notes with need to know information on safe drug dispensing and Technician's Corner critical thinking exercises Coverage of A P and medical terminology is included within each body system unit Quick reference mini drug monographs are included within each body system and drug classification chapter and include pill photos along with generic and trade names strength of medication route of administration dosage form dosing schedule and warning labels Learning features in each chapter include learning objectives key terms key points and review questions Exam preparation includes two 120 question online practice exams in addition to board style review questions Summary drug tables provide generic brand name drug strengths and dosage forms usual dose and dosing schedule and warning labels for at a glance access to important information NEW Updated drug information ensures you are familiar with the latest drug approvals and the latest dosage and prescription guidelines NEW Coverage of changes in pharmacology includes the newest pharmaceutical laws handling and dispensing of controlled substances COVID 19 developments and advances in vaccines NEW Integrated workbook exercises by chapter provide vocabulary practice review questions and case studies in the text as

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Mastering Pharmacy Technician Math: A Certification Review

Lynn M. Egler, Kathryn A. Booth, 2014-06-22 The review you need to excel on the Pharmacy Technician Certification Board Examination Mastering Pharmacy Technician Math A Certification Review is a super effective way for students preparing for the Pharmacy Technician Certification Board Examination to improve their ability to perform basic math and pharmacy specific calculations The book includes powerful learning aids such as practice exercises in each chapter end of chapter Q inhalants transdermal ophthalmic and otic drugs and drugs placed in the rectum or vagina Chapter 7 Intravenous Calculations describes how to calculate IV concentrations and how to prepare medications for continuous and intermittent IV infusion Chapter 8 Special Preparations Calculations describes the processes to calculate concentrations ratio strengths final volume final strength and dilutions as well as how to write recipes to prepare compound drug orders and perform alligation calculations Chapter 9 Medication Safety and Calculations discusses pharmacokinetics high alert medications look alike sound alike medications how to calculate drug half life values pediatric and geriatric calculations DEA controlled substance requirements related to prescriber DEA numbers and how to perform the calculation needed to verify DEA number validity Chapter 10 Business Inventory and Reimbursement Calculations discusses reimbursements and patient payments and describes how to calculate overhead costs profits and losses markups turnover rates and correct costs and change

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