

# STUDY GUIDE

## PHARMACOLOGY

### Pharmacology basics

Pharmacology is the scientific study of the origin, nature, chemistry, effects, and uses of drugs. This knowledge is essential to providing safe and accurate medication administration to your patients.

### Basic concepts of Pharmacology:

- Pharmacokinetics – The absorption, distribution, metabolism, and excretion of drugs by the body.
- Pharmacodynamics – The biochemical and physical effects of drugs and the mechanisms of drugs by the body.
- Pharmacotherapeutics - The use of drugs to prevent and treat diseases.

**Naming and classifying drugs:** Drugs have a specific kind of nomenclature – that is a drug can go by three different names.

- Chemical name - A scientific name that precisely describes the drug's atomic and molecular structure.
- Generic/Nonproprietary name - is an abbreviation of the chemical name.
- Trade name/proprietary name (Also known as brand name) – is selected by the drug company selling the product.
  - Trade names are protected by copyright.
  - © symbol after a trade name indicates that the name is registered by and restricted to the drug manufacturer.

**Class Act: Pharmacologic class (family)** - Drugs that share the similar characteristics that are grouped together.

*Beta-adrenergic blockers* are an example of pharmacologic class – refers to how an agent works at the molecular, tissues, and body system levels.

**Note:** Pharmacologic class is a group of active moieties that share scientifically documented properties and is defined on the basis of any combination of three attributes of the active moiety

- Mechanism of Action
- Physiologic effect
- Chemical structure

A second type of drug grouping is **Therapeutic class** – categorizes drugs by the therapeutic use. *Anti-hypertensives* are an example of a therapeutic class.

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### Where drugs come from

Traditionally, drugs were derived from natural sources such as: *Plants, Animals, Minerals*. Today however laboratory knowledge, along with chemical science to develop synthetic drug sources. One advantage of chemically developed drugs is that they're free from the impurities in natural substances. Also, researchers and drug developers can manipulate the molecular structure of substances such as antibiotics so that a slight change in the chemical structure makes the drug effective against different organisms. *The first, second, third, and fourth generation cephalosporins* are an example.

# Basic Pharmacology Study Guide Answer Key Elsevier

**RJ Shavelson**

## **Basic Pharmacology Study Guide Answer Key Elsevier:**

**Study Guide for Introduction to Clinical Pharmacology - E-Book** Constance G. Visovsky, 2023-12-18 Reinforce your understanding of nursing pharmacology with this practical study guide Corresponding chapter by chapter to Introduction to Clinical Pharmacology 11th Edition this workbook provides the practice and review needed to help you master pharmacology knowledge and prepare for the NCLEX PN Examination A variety of questions includes a math review dosage calculation exercises and case studies that emphasize clinical decision making and prioritization It's the ideal study tool and review companion for your textbook Alternate item format review questions prepare you for the Next Generation NCLEX NGN exam Variety of exercises reinforces your understanding with matching multiple choice fill in the blank true or false and select all that apply questions as well as crossword puzzles Practice quizzes provide preparation for course and licensure exams Reader friendly writing style and organization makes the content easier to understand NEW Review questions for the textbook's new Drugs for Cancer Treatment chapter are added to this edition as well as questions for the expanded Drugs for Reproductive Health Drugs for Thyroid and Adrenal Problems and Drugs for Osteoporosis chapters NEW Updated exercises cover newly approved pharmaceutical treatments and drugs

**Basic Pharmacology for Nurses** Bruce D. Clayton, Yvonne N. Stock, 2004 This time tested nursing pharmacology text is known for its concise drug monographs and nursing process coverage extensive use of color student friendly approach and emphasis on health promotion through medication monitoring and patient education The 13th edition also brings the same clinical accuracy that users have come to expect from Clayton please contact your Elsevier sales representative for details Presents comprehensive drug class discussions followed by individual drug narratives in a consistent readable colorful user friendly format Includes a unique Illustrated Atlas of Medication Administration and Math Review with extensive step by step illustrations demonstrating proper administration techniques for all forms of medications Reviews the pharmacology of all major classes of drugs emphasizing side effects to expect and report drug interactions and patient education Provides a tear out Drug Classifications Quick Reference card to help students review and learn the functions of drug classes Features free basic level access to Mosby's Drug Consult a comprehensive database of generic and brand name drugs Includes Chapter Content overviews Objectives Key Terms lists Key Points Math Review questions Critical Thinking questions and Review Questions Includes the very latest FDA approvals and withdrawals including up to date clinical drug indications and approximately 90 new drugs Incorporates NANDA Taxonomy II 2003 2004 nursing diagnoses throughout Features expanded content and late breaking changes in its coverage of osteoporosis hormone replacement and hypertension New chapters on parenteral drug administration now expanded from one to three chapters New chapter on Substance Abuse features coverage of substances of abuse health professionals and substance abuse treatment of substance abuse and more The chapter on Drugs Used to Treat Hypertension incorporates the latest JNC 7 recommendations for prevention detection evaluation and treatment of high blood pressure Includes updated

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the newest information on drugs for Alzheimer's disease *Mosby's Tour Guide to Nursing School* Melodie Chenevert, 2011 Encouraging user friendly and altogether unique Mosby's Tour Guide to Nursing School encourages you to not only survive nursing school but excel in whichever program you select Throughout the book Dr Chenevert compares your journey through nursing school to a road trip and she offers advice to increase your understanding help you successfully navigate obstacles and make your journey more enjoyable You'll learn how to prepare for the NCLEX R and your nursing career how to get good grades how to deal with failure how to improve oral and written reports and much more A must have for every nursing student Endorsed by the National Student Nurses Association NSNA Written by a nationally known motivational speaker and nurse the book's down to earth approach uses humor and clever analogies to clearly teach the information you need to know Uses the analogy of a cross country road trip to help you see the relationships between different aspects of nursing school as well as give you a finite view of its duration and end result Inspirational quotes throughout offer wisdom and encouragement from fellow nursing students and graduates The appendix lists numerous diverse resources you'll find useful before during and after nursing school Electronic Age Information covers distance learning online courses and podcasts facilitating your success both in today's electronic classroom and with the advancing technology in nursing A special NCLEX R chapter Chapter 29 Are We There Yet Almost provides you with the tools you need to prepare for and pass the NCLEX R Updated statistics and information on the emerging trends of the workforce keep you current with what's happening in the world outside nursing and help you make educated choices during nursing school Three chapters are devoted to diversity in today's workforce and the non traditional student Thorough coverage of ADN BSN and RN BSN programs program prerequisites differences and more helps you make informed decisions about your choice of nursing programs An appendix of Online Resources provides quick and easy access to web sites that will assist both students and graduates with continued study and real world advice

### **Understanding Pharmacology - E-Book** M. Linda Workman, Linda A. LaCharity, Susan L.

Kruchko, 2013-12-27 Clear and straightforward Understanding Pharmacology Essentials for Medication Safety helps you understand how drugs work and how to administer them safely That means you won't have to resort to rote memorization of drug information to avoid making medication errors Written by noted educators M Linda Workman PhD RN FAAN Linda A LaCharity PhD RN and Susan L Kruchko MS RN Understanding Pharmacology clarifies difficult concepts and prepares you to handle today's new drugs and drug classes It provides complete preparation for licensure exams and for clinical practice Clear consistent chapter format facilitates learning Objectives Key Terms with phonetic pronunciations and page references Review of Related Physiology and Pathophysiology Types of Drugs Prescribed including how each works dosages with intended responses side effects and adverse effects what to do before administering what to check after administering and what to teach patients Get Ready for Practice with Key Points Additional Learning Resources Review Questions and Critical Thinking Activities Animations and video clips are included on the companion Evolve website Everyday terminologys is used

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