

# 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-hypertensive* 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.

# Pharmacology Study Guide 6 Edition An

**Brigitte Niedzwiecki, Julie Pepper**



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**Фармакологія (англ.мовою). 3-є видання.** Бобирьов В.М. та ін., IV *Illustrated Study Guide for the NCLEX-RN® Exam EBook* JoAnn Zerwekh, 2022-01-13 Who says studying for the NCLEX can't be fun Illustrated Study Guide for the NCLEX RN Exam 11th Edition uses colorful drawings and mnemonic cartoons to help you review and remember the nursing content found on the NCLEX RN examination A concise outline format makes it easier to study key facts principles and applications of the nursing process More than 2 500 NCLEX exam style questions on the Evolve website allow you to create practice exams identify your strengths and weaknesses and review answers and rationales Written by noted NCLEX expert JoAnn Zerwekh this study guide provides a visual unthreatening way to prepare for success on the NCLEX RN exam More than 2 500 review questions on the Evolve website allow you to practice test taking in Study or Exam mode UNIQUE Mnemonic cartoons provide a fun easy way to review and remember key nursing concepts and disease processes UNIQUE Integrated systems approach incorporates pediatric adult and older adult lifespan considerations for basic nursing care concepts UNIQUE Appendixes in each chapter summarize diagnostic tests medications and nursing procedures for quick reference Answers and rationales are provided for all review questions Alternate item format questions on Evolve prepare you for the interactive question types on the NCLEX examination including priority drag and drop and hot spot questions Priority Concepts at the beginning of each chapter focus your attention on the chapter's key nursing concepts Nursing Priority boxes make it easier to distinguish priorities of nursing care Test Alert boxes highlight concepts frequently found on the NCLEX test plan Pharmacology tables make key drug information easy to find with high alert medications noted by a special icon Special icons distinguish pediatric and adult disorders and identify Self Care and Home Care content NEW Patient Scenarios and Next Generation NCLEX NGN Examination Style question types on the Evolve website provide practice with these new types of questions NEW Review of the NCSBN's clinical judgment model and six cognitive skills helps to prepare you for the nursing profession and taking the NCLEX RN examination NEW Pediatric content is moved into a separate new chapter and organized by body systems **Pharmacology for Health Professionals ebook** Kathleen Knights, 2014-10-31 Perfect for Undergraduate Health science Paramedic science Nursing Midwifery Podiatry and Optometry students Pharmacology for Health Professionals 4th Edition provides a comprehensive introduction to fundamental pharmacology principles and concepts The fourth edition has been fully updated and revised to reflect the most up to date information on the clinical use of drugs Australian and New Zealand scheduling drug legislation and ethics Anatomy and physiology integrated throughout Discipline specific information integrated throughout and additional resources provided via Evolve Key drug information at your fingertips Drug Monographs Drug Interactions Tables Clinical Interest Boxes and key terms and abbreviations End of chapter review exercises to test your understanding Evolve resources for both lecturer and student New and updated Drug Monographs describing important aspects of drugs and drug groups Updated tables outlining

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Pharmacology Updates, An Issue of Nursing Clinics of North America Jennifer Wilbeck, 2016-03-12 Pharmacologic options have exploded in recent years forcing updates and creation of guidelines for their use in a near simultaneous manner While some nurses may encounter these new medications at the bedside drugs with little or no indications in specific arenas may

remain unknown to the nurse practicing in a specialized area This issue of Nursing Clinics of North America offers a broad review of current pharmacologic therapy Bedside applications e g electronic apps offering real time information and updates for clinicians will be highlighted throughout the issue [National Library of Medicine Current Catalog](#) National Library of Medicine (U.S.), *Drug Therapy in Nursing* Diane S. Aschenbrenner, Samantha J. Venable, 2009 This text presents a totally nursing focused framework for teaching and learning nursing pharmacology and places the patient at the center of all drug administration decisions and considerations The book presents core drug knowledge using prototypes of different drug classes and emphasizes core patient variables that influence the patient's response to therapy This thoroughly updated Third Edition covers newly approved drugs has separate chapters on drugs affecting fungal and viral infections and includes more pathophysiology information FDA Black Box warnings have been added to the discussion of each prototype when applicable and safety alerts have been added to emphasize prevention of common medication errors A companion Website offers student and instructor ancillaries including NCLEX style questions pathophysiology animations medication administration videos and dosage calculation quizzes **Basic Pharmacology for Nurses**16 Bruce D. Clayton, Michelle Willihnganz, 2013-01-01 Basic Pharmacology for Nurses is a modern classic nursing pharmacology textbook known for its impeccably accurate drug content and its practical applications of the nursing process A consistent emphasis on health promotion through monitoring and patient education is a hallmark of the book Introductory units ground the reader in basic principles of pharmacology and medication administration Subsequent body system units apply the nursing process to every major disorder and appropriate nursing implications are discussed for every drug class to promote safe medication administration Provides an overview of relevant pathophysiology with an application of the nursing process in each drug chapter followed by nursing implications for each applicable drug class Covers the pharmacology of all major classes of drugs emphasizing side effects to expect side effects to report drug interactions and more Emphasizes patient education and health promotion with easy to recognize Patient Teaching boxes and reproducible Patient Self Assessment forms on the Evolve site Provides need to know coverage of herbal therapies and dietary supplements with an Herbal and Dietary Supplement Therapy chapter and Complementary and Alternative Therapies boxes throughout Increased emphasis on medication safety prepares nurses to practice more safely in a clinical environment that is both more pressured and more focused than ever on reducing drug errors The increased emphasis includes Chapter 7 Principles of Medication Administration do not confuse icons and an icon to signal ISMP's high alert drugs As the focus on pharmacology on the NCLEX continues to increase chapter ending Get Ready for the NCLEX R Examination sections include Key Points Additional Learning Resources and Review Questions for the NCLEX Examination Updated coverage of the most recent FDA approvals withdrawals and therapeutic uses provide impeccably accurate and current content to ensure safe drug therapy Updated and streamlined coverage of nursing care with a focus on the need to know material helps students focus on the most current



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