

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.

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 For Nurses Study Guide Elsevier

Valerie O'Toole Baker



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Study Guide for Basic Pharmacology for Nurses - E-Book Bruce D. Clayton, Michelle Willihnganz, 2013-12-27 Master nursing pharmacology with this helpful study tool Designed to accompany Clayton and Willihnganz's Basic Pharmacology for Nurses 16th Edition this study guide assists you in understanding and applying material from each chapter in the text More than 1 000 review questions grouped by textbook chapter objective Includes alternate format question types such as multiple response and priority order to give you practice with new question types found on the NCLEX PN exam Clinical patient scenarios help you understand drug classifications and actions for selected disease states **Clayton's Basic**

Pharmacology for Nurses, 19e Text and Study Guide Package Michelle Willihnganz, MS, RN, CNE, Samuel L. Gurevitz, PharmD, CGP, Bruce D. Clayton, BS, PharmD, RPh, 2022-03 *Study Guide for Clayton's Basic Pharmacology for Nurses* Michelle J. Willihnganz, 2025-02 Clayton's Basic Pharmacology for Nurses - Elsevier eBook on VitalSource (Retail Access Card) Michelle J. Willihnganz, Samuel L. Gurevitz, Bruce D. Clayton, 2022-02-28 Application of the nursing process includes an overview of general principles of nursing care for each disorder along with specific nursing considerations for drug treatment Drug monographs are provided for each major drug class describing actions uses and therapeutic outcomes for each class Medication Administration unit covers assessment techniques procedures and documentation for the safe administration of percutaneous enteral and parenteral drugs Medication safety is emphasized with Medication Safety Alerts and Clinical Pitfall boxes as well as Do Not Confuse and High Alert icons Clinical Goldmine boxes highlight tips and best practices for clinical procedures Lifespan Considerations boxes draw attention to the implications of drug therapy for children pregnant and breastfeeding women and older adults Drug tables summarize generic and brand names availability and dosage ranges for key medications for each disorder Get Ready for the NCLEX Examination section at the end of each chapter covers key points as well as review questions preparing you for course assessments and the NCLEX Examination Learning resources on the Evolve website include video clips of medication administration animations of drug actions drug calculators patient teaching guides and Next Generation NCLEX review questions Study guide corresponds to the textbook and offers review questions and clinical scenarios to reinforce your understanding of nursing pharmacology Available separately NEW Next Generation NCLEX NGN style questions help you develop higher cognitive thinking skills including clinical judgment and provide opportunities to practice for the new question formats on the NGN exam NEW Updated content is included for newly approved and frequently prescribed pharmaceutical drugs and for their therapeutic uses NEW Unfolding case studies help you translate pharmacological knowledge into nursing practice and provide preparation for the Next Generation NCLEX exam Study Guide for Clayton's Basic Pharmacology for Nurses Michelle Willihnganz, Samuel L. Gurevitz, Bruce D. Clayton, 2019-03 Reinforce your understanding of nursing pharmacology Corresponding to the chapters from the main text the Study Guide for Clayton's Basic Pharmacology for Nurses 18th Edition provides you with additional practice to help

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Study Guide for Basic Pharmacology for Nurses Bruce D. Clayton,Valerie Baker,Sandra Cooper,Yvonne N. Stock,2009-09-18 A study guide intended to accompany Basic pharmacology for nurses fifteenth edition by Bruce D Clayton Yvonne N Stock and Sandra E Cooper

Study Guide for Basic Pharmacology for Nurses Valerie

O'Toole Baker, 2007 A study guide intended to accompany Basic pharmacology for nurses fourteenth edition by Bruce D Clayton Yvonne N Stock and Renae D Harroun published by Mosby Elsevier in 2007 **Basic Pharmacology for Nurses**

Bruce D. Clayton, Yvonne N. Stock, Renae D. Harroun, 2007 This is a contemporary classic nursing pharmacology textbook known for its accurate drug content and its practical application of the nursing process A consistent emphasis on health promotion through medication monitoring and patient education is a hallmark of the book *Study Guide for Clayton's Basic Pharmacology for Nurses - E-Book* Michelle J. Willihnganz, Samuel L. Gurevitz, Bruce D. Clayton, 2019-03-01 Reinforce your understanding of nursing pharmacology Corresponding to the chapters from the main text the Study Guide for Clayton's Basic Pharmacology for Nurses 18th Edition provides you with additional practice to help prepare for and succeed on the NCLEX Each exercise is linked to a chapter objective and various patient scenarios encourages you to use your knowledge of clinical pharmacology further developing your critical thinking skills Plus a wide range of question formats reflects the question types you ll encounter on the latest NCLEX Additional question formats allow you to practice with the new question types found on the NCLEX exam Clinical patient scenarios help you to develop critical thinking skills and apply your knowledge of nursing pharmacology Medication administration handling and practice questions emphasized to reinforce safe medication administration practice NEW Exercises and review questions correspond with updated content from the text

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