

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-fungal* 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.

Study Guide For Basic Pharmacology

Bruce D. Clayton,Michelle Willihnganz

Study Guide For Basic Pharmacology:

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 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 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 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 **Basic Pharmacology for Nurses - Text and Study Guide Package** Bruce D. Clayton,Sandra Cooper,Yvonne N. Stock,Valerie Baker,2009-10-08 **Study Guide for Clayton's Basic Pharmacology for Nurses** Michelle J. Willihnganz MS

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Safety Alerts and Clinical Pitfall boxes as well as Do Not Confuse and High Alert icons Unit on medication administration

clearly and visually outlines assessment techniques procedures and documentation for safe administration of percutaneous enteral and parenteral drugs Application of the nursing process offers an overview of general principles of nursing care for each disorder as well as specific nursing considerations for the drug treatment Lifespan Considerations boxes for children and for older adults draw attention to information that would be especially important when giving a specific drug to patients of those age groups Drug tables clearly outline generic and brand names availability and dosage ranges for key medications for each disorder Clinical Goldmine boxes focus on best practices in the clinical setting Get Ready for the NCLEX Examination section at the end of each chapter covers key points from the chapter as well as review questions to help prepare for course assessments and the NCLEX Examination Video clips on medication administration procedures provide a visual reference for safe medication administration Key terms with phonetic pronunciations and text page references are listed at the beginning of each chapter NEW Chapter on Neurodegenerative Disorders covers drugs for dementia and Alzheimer s Disease NEW Updated guidelines on diabetes heart failure asthma COPD and cancer ensure readers are versed in the latest treatment protocols NEW Accurate and up to date coverage includes the most recent FDA approvals withdrawals therapeutic uses and content on cultural considerations related to each drug class

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