

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.

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Basic Pharmacology for Nurses 16th Edition 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® 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 need-to-know content.

Basic Pharmacology for Nurses - E-Book Michelle J.

Willihnganz, Bruce D. Clayton, 2016-02-25 Known for its accurate up-to-date drug content and its practical application of the nursing process to drugs and disorders, Clayton and Willihnganz's Basic Pharmacology for Nurses 17th Edition prepares you for safe medication administration. Emphasizing the nurse's role, clear guidelines cover safe drug handling, types of drugs used for disorders, or to affect body systems, injection and enteral administration, and patient education. From a respected PharmD Nursing author team, this full-color text also provides an excellent review for the pharmacology questions on the NCLEX examination. Current accurate content ensures that the most current drugs and treatment protocols are presented. Application of the nursing process includes general principles of nursing care for each disorder along with nursing considerations for drug treatment plans. An emphasis on safe drug handling and administration includes High Alert and Do Not Confuse icons as well as Medication Safety Alert boxes. A focus on patient education and health promotion equips you for health teaching related to medications. NCLEX preparation sections at the end of each chapter help you get ready for

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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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