

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**

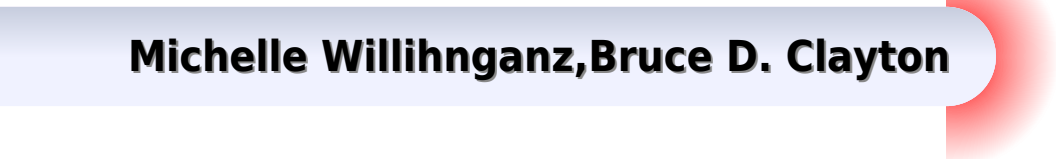
A second type of drug grouping is **Therapeutic class** – categorizes drugs by the therapeutic use. *Anti-hypertensive* are an example of a therapeutic class.

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 Clayton Study Guide Answer Key

Michelle Willihnganz, Bruce D. Clayton



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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 **Clayton's Basic Pharmacology for Nurses - E-Book** Michelle J. Willihnganz, Samuel L. Gurevitz, Bruce D. Clayton, 2019-03-01 Master the basic principles of pharmacology and safe medication administration with Clayton's Basic Pharmacology for Nurses 18th Edition Known for its impeccably accurate and up to date drug content this best selling text consistently underscores medication safety as it guides you in applying pharmacology information to the nursing process Introductory units acquaint you with the basic principles of pharmacology and medication administration while subsequent body system units prepare you to apply the nursing process to every major disorder Clear guidelines cover safe drug handling the types of drugs used for disorders or to affect body systems injection and enteral administration and patient education From a respected author team this full color text also provides an excellent review for the pharmacology questions on the NCLEX examination Medication safety is underscored through Medication 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 **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,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 *Basic Pharmacology for Nurses16* 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 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 helps you get ready for pharmacology related questions on the NCLEX examination A study guide corresponds to the textbook and offers review questions and clinical scenarios to reinforce your understanding of nursing pharmacology Available separately UPDATED drug coverage includes the most recent FDA approvals withdrawals and therapeutic uses UPDATED guidelines cover injection and enteral medication administration with an emphasis on safe medication practice UPDATED treatment protocols include specific conditions such as asthma hyperlipidemia heart failure COPD and cancer NEW Objectives and key terms are listed at the beginning of each chapter making it easy to see chapter content at a glance **Basic Pharmacology for Nurses - E-Book** Michelle Willihnganz, Bruce D. Clayton, 2014-05-01 Basic Pharmacology for Nurses is a modern classic Known for its impeccably accurate drug content and practical applications of the nursing process this trusted text consistently emphasizes health promotion through monitoring and patient education Introductory units ground your knowledge in the basic principles of pharmacology and medication administration while subsequent body system units prepare you to apply the nursing process

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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 and expanded coverage of pain and end of life care Herbal Interactions boxes highlight well documented interactions between drugs and herbal therapies and dietary supplements Clinical Landmines boxes highlight critically important clinical considerations of which the nurse must be aware in order to practice safely Unique Patient Self Assessment Forms that can be copied as patient handouts have been redesigned for improved clarity and usability Online Resources are now provided at

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