

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.

Answers For Pharmacology Study Guide

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Table of Contents Answers For Pharmacology Study Guide

1. Understanding the eBook Answers For Pharmacology Study Guide
 - The Rise of Digital Reading Answers For Pharmacology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Pharmacology Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Pharmacology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Pharmacology Study Guide
 - Personalized Recommendations
 - Answers For Pharmacology Study Guide User Reviews and Ratings
 - Answers For Pharmacology Study Guide and Bestseller Lists
5. Accessing Answers For Pharmacology Study Guide Free and Paid eBooks
 - Answers For Pharmacology Study Guide Public Domain eBooks
 - Answers For Pharmacology Study Guide eBook Subscription Services
 - Answers For Pharmacology Study Guide Budget-Friendly Options

6. Navigating Answers For Pharmacology Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Pharmacology Study Guide Compatibility with Devices
 - Answers For Pharmacology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Pharmacology Study Guide
 - Highlighting and Note-Taking Answers For Pharmacology Study Guide
 - Interactive Elements Answers For Pharmacology Study Guide
8. Staying Engaged with Answers For Pharmacology Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Pharmacology Study Guide
9. Balancing eBooks and Physical Books Answers For Pharmacology Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Pharmacology Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Pharmacology Study Guide
 - Setting Reading Goals Answers For Pharmacology Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Pharmacology Study Guide
 - Fact-Checking eBook Content of Answers For Pharmacology Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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