



Pharmacology



Drug Fundamentals, Plus the Most Frequently Prescribed Drug Classifications—including Indications, Reactions, Examples & More

definitions

- pharmacodynamics** Study of the mechanisms of action of drugs within the body and how drugs produce their effects in the body
- pharmacogenetics** Study of drug reactions in the body that are unanticipated or unusual, and may have a hereditary basis for the response
- pharmacokinetics** Study of drug actions as they move through the body; the way the body absorbs, distributes, metabolizes and excretes drugs; mathematical study of drugs based on time and dose
- pharmacology** Study of biologically active compounds, how they react in the body and how the body reacts to them
- pharmacotherapeutics** Study of drugs used to prevent, treat or diagnose disease
- pharmacy** Preparation and dispensing of drugs
- toxicology** Study of harmful or poisonous effects of drugs

drug names



pharmacodynamics

- Receptors**
 - Protein molecules with one or more binding sites, located on cell membranes
- Receive a signal from the body's chemicals: neurotransmitters, hormones, enzymes
- Signal will cause a molecular event on the inside of the cell to occur
- Drugs Enhance (agonists, diminish (partial agonists) or block (antagonists) the generation, transmission or reception of the signal
- Affinity: Attraction between a drug and a receptor
- High affinity: Drug will bind easily to the receptor
- Low affinity: Requires a higher concentration of the drug to get a therapeutic response
- Drug Potency**
 - Amount of drug required to produce a therapeutic response
- Dose Response Curve**
 - Effective Dose (ED₅₀): Amount of drug that produces a therapeutic response in 50% of the people taking it
 - Toxic Dose (TD₅₀): Amount of drug that produces adverse effects in 50% of the people taking it
 - Therapeutic Index (TI): Margin of safety; ratio between the TD and the ED
 - The higher the TI, the safer the drug is considered to be; in general, nonprescription drugs have much higher TIs than prescription drugs

pharmacokinetics

- Routes drugs take to get into the body**
 - Oral**
 - Enters the body through the GI tract
 - Taken by mouth, through the rectum, under the tongue or held in the cheeks
 - Intravenous**
 - Enters the body through a different means (i.e., other than the GI tract)
 - Can be injected into the veins, arteries, muscles, spinal cord, or under the skin, inhaled through the lungs, transdermally through the skin via ointment or patch
- Absorption**
 - Bioavailability**: Percent absorbed into systemic circulation after administration
 - Bioavailability** depends on route of administration as well as the drug's ability to cross membranes and reach its target
 - First Pass Effect**
 - Drugs absorbed through the stomach and small intestine must pass through the liver before circulating systemically
 - Liver can inactivate the drug, making less of the drug available to reach the target organ
 - Absorption at cellular level occurs through passive transport, active transport, pinocytosis and facilitated diffusion
- Distribution**
 - Influenced by several factors:
 - Tissue permeability**: Ability of drug to pass through the membranes readily affects the extent to which the drug moves around in the body
 - Blood flow**: Drugs in the blood stream, will get to the organs and tissues that are highly perfused
 - Plasma proteins binding**: Drug can bind to a protein that will render the drug inactive; only an unbound drug can attach to the receptors
 - Binding to subcellular components
 - Blood pH
- Drug Storage Sites**
 - Adipose Tissue**: Primary site; lipid-soluble drugs tend to remain for long periods of time due to low metabolic rates of drugs and poor blood perfusion of tissue
 - Some Toxic agents** like heavy metals
 - Muscle**: Binding can cause muscle to store drugs
 - Chemo**: Liver and kidneys
- Metabolism**
 - Biotransformation**: Chemical changes that occur in the drug following administration
 - Metabolite**: Altered version of the chemical compound
 - Can have a higher or lower rate of activity than the original drug; if higher, drug is given as an inactive or prodrug form
 - Prodrug**: Requires metabolism or activation of drug in order for it to act within the body
- Excretion**
 - First order**: Rate of removal of drug from the body is proportional to the concentration of the drug in the plasma
 - Half-life**: Time required to decrease the blood levels of a drug by one-half
 - A one-time drug dosage will be eliminated almost completely by 5 half-lives
 - A drug given on a continuous dosage schedule will reach steady state concentration after 5 half-lives
 - Steady state**: Rate of drug administration is equal to the rate of drug excretion
 - Organs that excrete drugs: Kidneys, lungs, sweat glands, mammary glands, salivary glands, skin and GI tract

schedule drugs



- | Schedule Class | Characteristics |
|-------------------|--|
| Schedule 1: C-I | High abuse potential; not legal; no acceptable medical use; no prescriptions available |
| Schedule 2: C-II | High abuse potential and severe dependence liability; current, accepted medical use; prescription drug signed; not stamped prescription; 30-day supply; no refills |
| Schedule 3: C-III | Less abuse potential, low-moderate physical dependence, high psychological dependence; by prescription only, expires within 6 months; max. 3 refills on one script |
| Schedule 4: C-IV | Less abuse potential than C-III drugs; accepted medical use; limited physical and psychological dependence; written or verbal prescription, expires in 6 months; max. 3 refills on one script |
| Schedule 5: C-V | Limited abuse potential, accepted medical use; small amounts of narcotics used as antitussives (cough medicine) or antidiarrheals; may not need a prescription but must be recorded as a transaction |

- Examples (C-I to C-IV)**
 - Heron, LSD, cocaine, marijuana, methaqualone
 - Opium, morphine, coca, methadone
 - Amphetamine, codeine, barbiturates, Valium, Xanax, anabolic steroids
 - Clonidine, hydralazine, nifedipine, paroxetine, phenobarbital

Pharmacology Quick Reference Guide

Jason C. Gallagher, Conan MacDougall



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Drug Information Bonnie Snow, 1999-11-17 Designed for use as a self study text as a course text in more formal instruction programs or as a refresher for the busy professional the book includes valuable background data on legal and regulatory issues as well as pharmaceutical technology

Antibiotics Simplified Jason C. Gallagher, Conan MacDougall, 2008-05-22 *Antibiotics Simplified* is a succinct guide designed to bridge knowledge gained in basic sciences courses with clinical practice in infectious diseases Introductory chapters explain the rationale behind the treatment of infectious diseases describe a system for selecting antimicrobial agents and briefly review basic microbiology Later chapters present relevant characteristics of drug classes emphasizing clinical pearls for individual agents and also include content on antifungals The concise nature of the text allows for emphasis on key points allowing readers to extract the most important characteristics of anti infective drugs from the larger mass of material that they learn from detailed pharmacology textbooks This is an ideal handbook for students as well as practicing clinicians and pharmacists

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Table of Contents Pharmacology Quick Reference Guide

1. Understanding the eBook Pharmacology Quick Reference Guide
 - The Rise of Digital Reading Pharmacology Quick Reference Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Pharmacology Quick Reference 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 Pharmacology Quick Reference Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pharmacology Quick Reference Guide

- Personalized Recommendations
- Pharmacology Quick Reference Guide User Reviews and Ratings
- Pharmacology Quick Reference Guide and Bestseller Lists
- 5. Accessing Pharmacology Quick Reference Guide Free and Paid eBooks
 - Pharmacology Quick Reference Guide Public Domain eBooks
 - Pharmacology Quick Reference Guide eBook Subscription Services
 - Pharmacology Quick Reference Guide Budget-Friendly Options
- 6. Navigating Pharmacology Quick Reference Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Pharmacology Quick Reference Guide Compatibility with Devices
 - Pharmacology Quick Reference Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pharmacology Quick Reference Guide
 - Highlighting and Note-Taking Pharmacology Quick Reference Guide
 - Interactive Elements Pharmacology Quick Reference Guide
- 8. Staying Engaged with Pharmacology Quick Reference Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pharmacology Quick Reference Guide
- 9. Balancing eBooks and Physical Books Pharmacology Quick Reference Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pharmacology Quick Reference Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pharmacology Quick Reference Guide
 - Setting Reading Goals Pharmacology Quick Reference Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pharmacology Quick Reference Guide

- Fact-Checking eBook Content of Pharmacology Quick Reference 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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