



# 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 (ED): Amount of drug that produces a therapeutic response in 50% of the people taking it
  - Toxic Dose (TD): 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
  - Bone**: Toxic agents like heavy metals
  - Muscle**: Binding can cause muscle to store drugs
  - Chemo**: Liver and kidneys
- Metabolism**
  - Bioreformation**: 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
  - Amphetamines**, codeine, barbiturates, Valium, Xanax, anabolic steroids
  - Clonidine**, hydralazine, nifedipine, paroxetine, phenobarbital

# Pharmacology Quick Reference Guide

**Jason C. Gallagher, Conan MacDougall**



## **Pharmacology Quick Reference Guide:**

**Pharmacology Quick Reference for Health Care Providers** Patricia Anthony, 2019-05-14      **List of Journals Indexed in Index Medicus** National Library of Medicine (U.S.), 1996 Issues for 1977 1979 include also Special List journals being indexed in cooperation with other institutions Citations from these journals appear in other MEDLARS bibliographies and in MEDLINE but not in Index medicus      **Textbook of Basic Nursing** Caroline Bunker Rosdahl, Mary T. Kowalski, 2002 Now in full color this comprehensive Eighth Edition nursing text continues to meet the needs of practical vocational nursing curriculum as one coherent source Broad coverage includes anatomy and physiology nursing process growth and development nursing skills and pharmacology A solid foundation is also provided for medical surgical maternity pediatric and psychiatric mental health nursing Step by step procedures are formatted in two column presentation with rationale and numerous illustrations to show clearly all aspects of nursing procedures Appendixes provide English Spanish healthcare phrases key abbreviations and acronyms and more Other new features include a section on study skills and home health care mentioned throughout the text Now with three multimedia CD ROMs an audio pronunciation CD ROM a clinical simulation of wound care of the diabetic patient a bonus CD ROM containing a simulated NCLEX PN exam a clinical simulation on whistleblowing a full video on treatment of pressure ulcers and six animations cell cycle congestive heart failure hypertension immune response nerve synapse and stroke      **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      **A Manual of pharmacology and its applications to therapeutics and toxicology** Torald Hermann Sollmann, 1917      *Antibiotics Simplified* Gallagher, Conan MacDougall, 2018 Antibiotics Simplified Fourth Edition is a best selling succinct guide designed to bridge knowledge gained in basic sciences courses with clinical practice in infectious diseases This practical text reviews basic microbiology and how to approach the pharmacotherapy of a patient with a presumed infection It also contains concise Drug Class Reviews with an explanation of the characteristics of various classes of antibacterial drugs and antifungal drugs This text simplifies learning infectious disease pharmacotherapy and condenses the many facts that are taught about antibiotics into one quick reference guide This guide will help students learn the characteristics of antibiotics and why an antibiotic is useful for an indication With an understanding of the characteristics of the antibiotics students will be able to make a logical choice to treat an

infection more easily      **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 Gallagher,Conan MacDougall,2011-03-09 Spectrum of activity      Index Medicus ,2001      *Neuroanatomy and Neuroscience at a Glance* Roger A. Barker,Francesca Cicchetti,Emma S. J. Robinson,2017-10-02 British Medical Association Book Award Winner Student Textbook of the Year 2018 Everything you need to know about Neuroanatomy and Neuroscience at a Glance Neuroanatomy and Neuroscience at a Glance is a highly illustrated quick reference guide to the anatomy biochemistry physiology and pharmacology of the human nervous system Each chapter features a summary of the anatomical structure and function of a specific component of the central nervous system a section on applied neurobiology outlining how to approach a patient with neurological or psychiatric problems aligned to the chapter topic standard diagnostic procedures for most common scenarios as well as an overview of treatment and management options This fully updated and expanded new edition includes Dozens of full page colour illustrations and neurological scans Expanded coverage of techniques to study the nervous system More practical information on the neurological exam New content on neuropharmacology and drug therapies Bullet points and bold terms throughout assist with revision and review of the topic Neuroanatomy and Neuroscience at a Glance is the ideal companion for students embarking on a neuroanatomy or neuroscience course and is an excellent reference tool for those in clinical training An updated companion website with new clinical cases multiple choice self assessment questions revision slides and downloadable illustrations and flashcards is available at [www.ataglanceseries.com/neuroscience](http://www.ataglanceseries.com/neuroscience)      *Drugs in Palliative Care* Andrew Dickman,2023-01-21 While palliative care has adopted a holistic approach to treatment medication driven symptom management ostensibly forms the critical aspect of care Prescribing in palliative care can be extremely complex because the patient may often have comorbidity or occasionally multimorbidity The associated polypharmacy further complicates the pharmacological management of symptoms being caused by the palliative condition This can be daunting for healthcare professionals and can negatively impact upon the effectiveness of care provided Fully revised and updated the third edition of *Drugs in Palliative Care* provides an accessible and succinct overview of the main drugs that are encountered in palliative care clinical practice The text begins by providing a clinical pharmacology overview and prescribing guidance then contains over 160 monographs of palliative care drugs in an easy to access A Z format      **Pediatric Nursing** Mary E. Muscari,2005 An outline format inexpensive paperback review book for undergraduate nursing students that can be used for course or subject review or NCLEX preparation Contains NCLEX style review questions in each chapter a comprehensive exam and additional questions on a back of book CD ROM This edition includes new NCLEX style innovative item questions      **List of Journals Indexed for MEDLINE** ,2005      Perry & Potter's Canadian Clinical Nursing Skills and Techniques- E-Book Shelley Cobbett,2023-11-10 Perry Potter s Canadian Clinical

Nursing Skills and Techniques 2nd Edition helps equip you with the skills you need to successfully care for patients within the Canadian social and institutional context Offering comprehensive coverage of more than 200 basic intermediate and advanced skills this textbook features nearly 1 000 full colour photographs and illustrations a nursing process framework step by step instructions with rationales and a focus on critical thinking and evidence informed practice New to this edition are unit openers safety alerts documentation examples COVID 19 precautions and protocols and case studies and questions for the Next Generation NCLEX

**Tabbner's Nursing Care 2 Vol Set - E-Book Epub** Gabrielle Koutoukidis,Kate Stainton,2024-11-19 Must have resource for all future Enrolled NursesTabbner s Nursing Care is the main resource for Diploma of Nursing students and instructors This well established and highly respected book provides the knowledge and skills learners need to qualify as Enrolled Nurses Written by a highly qualified team of editors and contributors the book equips the learner to provide safe competent and person centred care It teaches and prepares learners to apply critical and reflective thinking to decision making use healthcare technology and work as part of a healthcare team in a variety of settings Complete with an accompanying workbook and a host of features to support and facilitate teaching and learning Tabbner s Nursing Care is the ideal contemporary evidenced based resource to develop competent and safe Enrolled Nurses of the future Reflects the current context and scope of practice for Enrolled Nurses Takes a person centred care approach and supports learners to become safe and competent Enrolled Nurses Builds clinical reasoning critical thinking and problem solving skills Full colour content to support teaching and learning Includes Nursing Care Plans Critical Thinking Exercises Case Studies Progress Notes Decision Making Framework Exercises Clinical Skills with rationales and Review Exercises New to this edition New skills covering Removal of a drain tube Urinary catheterisation male Focused pain assessment Care of the person after death Content covering health informatics and technology LGBTQIA representation and COVID 19 New chapter on readiness for practice Instructor resources on Evolve Answer guides for Case Studies Critical Thinking Exercises Decision Making Framework Exercises Review Questions Clinical Cases case studies Clinical Skills videos Image collection PowerPoint slides Test bank Weblinks Learner and instructor resources on Evolve Answer guides for Case Studies Critical Thinking Exercises Decision Making Framework Exercises Review Questions Clinical Cases case studies Clinical Skills videos Weblinks

*Nursing The Acutely Ill Adult: Case Book* Page, Karen,McKinney, Aidin,2012-09-01 Nursing the Acutely ill Adult is a comprehensive text Each chapter draws on the clinical and academic expertise of the author and follows a structured approach that explores the case problems altered physiology and nursing interventions and care It is an ideal reference resource for nurses who wish to reflect and explore the evidence base underpinning the complexities of nursing acutely ill adults Alison Eddleston Senior Lecturer Acute Operative and Critical Care School of Health University of Central Lancashire UK This informative case based book encourages the reader to critically consider the assessment and care needed by acutely ill adult patients with a variety of underlying conditions Nursing and other healthcare students should find that the book

helps with the development of an integrated mindset and evidence based decision making Janice Christie Senior Lecturer in Public Health and Primary Care City University London UK The book will enable practitioners to approach the assessment of patients with a range of acute conditions in a structured manner The case scenarios are very realistic and there are good explanations of underlying patho physiology There is also a well structured explanation of investigations and priority interventions This book will enable the development of expertise in assessment and prioritising of care in a range of settings Laurence Leonard Senior Lecturer Kingston University and St George s University of London UK The complexity of caring for patients who become acutely ill or have deteriorated can be a daunting challenge for nurses Part of a case book series this accessible book contains 17 in depth case studies relating to care of the acutely ill adult The cases combine pathophysiology pharmacology and nursing care in realistic clinical settings providing an engaging resource for nursing students taking acute care modules This handy book Follows a step by step question and answer format Facilitates the application of theory to practice through the use of clinical case studies Considers the most common acute illness scenarios that are frequently encountered by practitioners Integrates knowledge of pathological processes applied pharmacology and related nursing implications to acute illness Nursing the Acutely Ill Adult Case Book offers a unique way of relating theory to practice making it key reading for undergraduate nursing students It will also be beneficial to students in areas such as intensive care as well as nurse educators looking for a way to bridge the gap between the classroom and clinical practice Contributors Patrick Gallagher Niall McKenna Billie Joan Rice      **Drug Delivery to the Oral Cavity** Tapash K. Ghosh,William R.

Pfister,2005-02-28 With contributions from recognized authorities in industry academia and government this reference presents the state of the art in the testing formulation and clinical evaluation of intraoral drug delivery products summarizing intraoral dosage forms in various stages of research as well as products currently on the market      *Saunders 2020-2021 Strategies for Test Success - E-Book* Linda Anne Silvestri,Angela Silvestri,2019-06-16 Help alleviate your pre test jitters with this essential nursing resource Written by the most trusted experts in NCLEX prep Saunders 2020 2021 Strategies for Test Success 6th Edition introduces tools for overcoming text anxiety and tactics for developing effective study habits Essentially it teaches you how to master the things that matter most on your nursing school exams critical thinking problem solving and time management This essential guide features over 1 200 practice questions and rationales to help you tackle anything from a routine quiz to the NCLEX It also includes a wealth of proven tips and real world hints to help you confidently evaluate and identify the correct answer for a variety of test question types including alternate item formats Plus additional questions on the Evolve website gives you even more preparation material 1 200 review questions are included in the book and online providing a 2 in 1 approach to learning strategies and test taking skills Increased focus on critical thinking uses different strategies to help you develop clinical judgment skills and the ability to question data and client abnormalities Helpful Tips for the Nursing Student highlight the most important concepts needed for exam success UNIQUE Student to Student Hints

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