

# M1 FOUNDATION OF PHARMACOLOGY

**Pharmacology** (from the Greek **pharmakon**, meaning “drug,” and **logos**, meaning “science”) deals with the study of drugs and their actions on living organisms. Diseases that cause illness may be treated in several different ways, which are referred to as therapies. The various approaches to therapy are called **therapeutic methods**. Examples of therapeutic methods include the following:

- **Drug therapy:** Treatment with drugs
- **Diet therapy:** Treatment with diet (e.g., a low-salt diet for patients with cardiovascular disease)
- **Physiotherapy:** Treatment with natural physical forces (e.g., water, light, heat)
- **Psychological therapy:** The identification of stressors and methods that can be used to reduce or eliminate stress

**Drugs** (from the Dutch *droeg*, meaning “dry”) are chemical substances that have an effect on living organisms.

**Therapeutic drugs**, which are often called **medicines**, are those drugs that are used for the prevention or treatment of diseases.

## DRUG NAMES

Drugs have several names.

- The **chemical name** describes the drug's chemical structure.
- The **generic name** is the **official, nonproprietary name for the drug**; this name is not owned by any drug company and is **universally accepted**. Generic names are given in lowercase letters.
- The **brand (trade) name**, also known as the **proprietary name**, is **chosen by the drug company and is usually a registered trademark**. Brand names always begin with a capital letter. An example of a generic and brand-name drug listing is Furosemide (Lasix).

Example of Chemical, Generic, and Brand Names for Drugs

Chemical name: [2-[4-[4-(Chlorophenyl)phenyl]methoxy]-1-piperazinyl]ethoxy]acetic acid dihydrochloride (see Fig. 1.1)



FIG. 1.1 Ceftriaxone, an antibiotic.

Generic name: Ceftriaxone

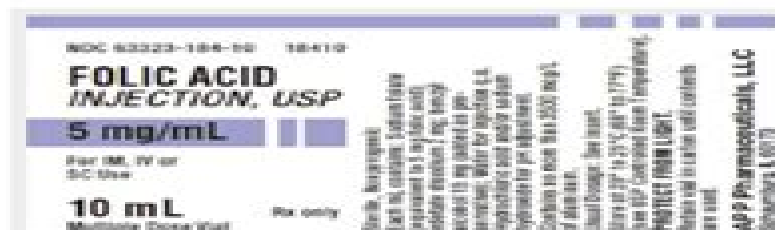
Brand name: Zytel; Allerg

## INTERPRETING DRUG LABELS

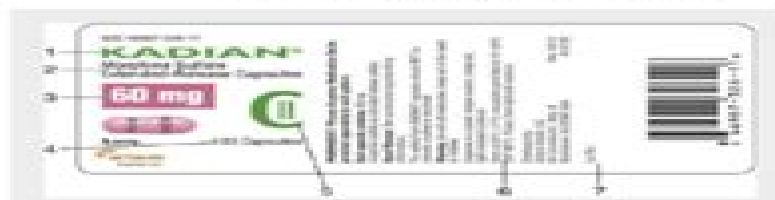
- The formulation or the drug amount per tablet, capsule, or unit of liquid (for oral and parenteral doses) is printed on the drug label. Other information found on drug labels includes lot number, expiration date, proper storage of the drug, and whether it is a controlled substance.
- **Example: 1. Drug Label of An Oral Drug**
  - Tylenol is the brand (trade) name, acetaminophen is the generic name, and the formulation is 500mg per caplet. That the container holds 100 caplets is irrelevant when calculating the drug dosage.



- **Example: 1. Drug Label of A Parenteral Drug**
  - This label lists the generic name only (folic acid). The formulation is 5 mg per mL.



- **Example: 1. Additional information provided on drug labels.**
  - (1)Kadian is the brand (trade) name and (2)morphine sulfate is the generic name. The (3)formulation is 60 mg per capsule, and the container holds (4)100 capsules. It is a (5)schedule II drug, which is a controlled substance because of its potential for abuse. The (6)label indicates how the drug is to be stored, and the (7)lot number also appears.



# Ez Pharmacology

**M. Linda Workman, Linda A. LaCharity**



## **Ez Pharmacology:**

EZ Pharmacology Walt Stoy, Center for Emergency Medicine, 1996-07 Introduces the fundamental concepts and practical applications of medication administration Discusses calculating drug dosages and preparing medications Nursing Pharmacology Made Incredibly Easy! Lippincott Williams & Wilkins, 2008-06-01 Written in the award winning Incredibly Easy style this book presents everything the nurse and nursing student needs to know about how drugs act and interact in the treatment of disease The book focuses on mechanisms of drug action details specific drugs by pharmacologic class reviews the nursing process related to each drug category for all body systems plus pain medications anti infective drugs and cancer drugs and highlights potentially dangerous interactions including drug herb interactions This thoroughly updated Second edition includes the most current NANDA diagnoses New chapters cover genitourinary drugs and drugs to treat fluid and electrolyte imbalances Obesity drugs have been added to the gastrointestinal drugs chapter Reviews of Physiology, Biochemistry and Pharmacology, 1923 **Pharmacology Applications** Aaos American Academy of Orthopaedic Surgeons, 2015-08-12 Pharmacologic intervention is a cornerstone of paramedic treatment Pharmacology Applications Revised First Edition covers the relevant issues of pharmacology as they relate to the field practice of the paramedic The text gives students a comprehensive understanding of the indications contraindications and side effects of medications as well as insight into the pathophysiology and etiology of conditions requiring rapid pharmacologic intervention Important Notice The digital edition of this book is missing some of the images or content found in the physical edition **Clinical Pharmacology Made Incredibly Easy!**, 2009 Written in the award winning Incredibly Easy style this book provides complete and clear explanations of how drugs act and interact in the treatment of disease Focusing on mechanisms of drug action the book details specific drugs by pharmacologic class for all body systems as well as drugs for pain psychiatric disorders infection fluid and electrolyte imbalances and cancer Potentially dangerous drug and drug herb interactions are highlighted This thoroughly updated edition covers the newest drugs in each pharmacologic class and includes information on obesity drugs a new chapter on genitourinary system drugs a new medication safety feature and a new appendix on common herbal preparations and their drug interactions Literature Search National Library of Medicine (U.S.), 1966 **Understanding Pharmacology - E-Book** M. Linda Workman, Linda A. LaCharity, 2023-02-09 NEW Clinical Judgment questions at the end of each clinical chapter offer additional self assessment on pharmacology and medication administration NEW Critical Point for Safety boxes emphasize very important pharmacologic concepts to remember NEW Approximately 40 animations on the companion Evolve website supplement important concepts related to understanding pharmacology NEW Printed answer key with rationales in the back of the book makes it easy to check your answers and assess your comprehension UPDATED Revised drug tables provide adult dosages and nursing implications for individual drugs Pharmacology Joyce LeFever Kee, Evelyn R. Hayes, Linda E. McCuiston, 2014-01-30 Previous edition has subtitle a nursing process approach

**Pharmacology - E-Book** Linda E. McCuistion, Joyce LeFever Kee, Evelyn R. Hayes, 2014-02-03 NEW QSEN focus emphasizes patient centered care safety quality and collaboration and teamwork NEW content covers the most commonly used drugs including updated Prototype Drug Charts and drug tables Enhanced coverage of prioritization includes nursing interventions in the Nursing Process sections listed in order of priority Updated illustrations include new drug labels in the Drug Calculations chapter

**Pharmacology for Health Professionals** W. Renee Acosta, 2020-06-08 Pharmacology for Health Professionals Second Edition is specifically written for students who may not directly administer drugs in their chosen health profession but who will be involved in patient care and therefore need to understand basic pharmacological principles and practices

**Pharmacology of Antimuscarinic Agents** Laszlo Gyermek, 1997-11-25 The theoretical and practical significance of antimuscarinic drugs is more obvious today than ever before Antimuscarinics have helped to explore the pathomechanisms of Alzheimer's disease and to treat the symptoms of Parkinson's cardiovascular problems gastrointestinal diseases and even nerve gas poisoning No other drug class can claim as long a history with so many therapeutic applications yet the most significant developments in this broad chapter of pharmacology come from the discovery of different muscarinic receptor sites in the peripheral and central nervous system and from the availability of many new selective agents notably antagonists for these different receptor types

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*National Library of Medicine Literature Search*, 1966

**BASIC CONCEPTS IN PHARMACOLOGY TOXICOLOGY & PHARMACOTHERAPEUTICS** Dr. Anand Tulshidas Raut, 2016-04-13 The Book Represents Basic Conceptual Ideas Regarding Pharmacology Toxicology some of the features are as follows

- 1 Pharmacological Mechanism of action of drug in schematic form
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- 4 Possible Adverse effects Contraindications

The above mentioned features will be most helpful in immediate recognition of various drug with respect to existing clinical condition

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next chapters discuss antimicrobial drugs and chemotherapy and the book concludes with a section on miscellaneous drugs including immunosuppressant drugs antiseptics vitamins and vaccines The eighth edition has been fully revised to provide the latest advances in the field New drugs and the latest treatment guidelines have been added Most chapters conclude with an exercise in therapeutic decision making and topics are extensively referenced The text is highly illustrated with figures charts and tables and includes comprehensive appendices covering problem directed study prescribing in pregnancy and drugs in breastfeeding Key points Comprehensive guide to medical pharmacology for students Fully revised eighth edition featuring many new drugs and latest treatment guidelines Includes therapeutic decision making exercises Previous edition 9789350259375 published in 2013

**Understanding Pharmacology** M. Linda Workman, Linda A. LaCharity, 2015-11-25 538 pages 538 pages NEW Body system organization helps readers better understand drugs that are specific to particular body systems NEW More chapter review questions have been added to the text All review questions are now organized into one of two categories Test Yourself on the Basics and Test Yourself on Advanced Concepts

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