

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

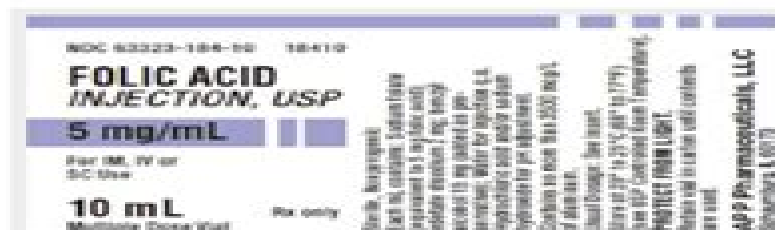
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INTERPRETING DRUG LABELS

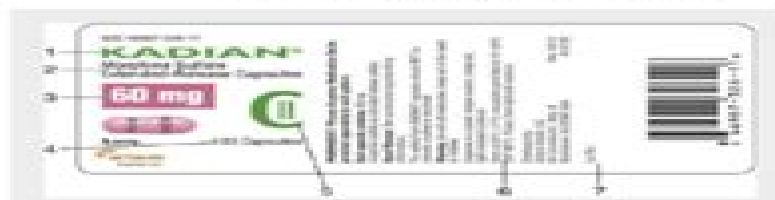
- The formulation or the drug amount per tablet, capsule, or unit of liquid (for oral and parenteral doses) is printed on the drug label. Other information found on drug labels includes lot number, expiration date, proper storage of the drug, and whether it is a controlled substance.
- **Example: 1. 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

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