



# Pharmacology

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



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## 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; pharmaceutical 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

### DRUG

Chemical Name	Generic Name	Trade Name
Chemical Name: Scientific name, describes the atomic and molecular structure of a drug	Generic Name: Generic name, alternative name of the chemical name	Brand Name: Trade name, selected by the pharmaceutical company that made the drug

## 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 (agonist), diminish (partial agonist) or block (antagonist) the generation, transmission or receiving 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.

## schedule drugs



### Schedule Class

Schedule 1: C-I  
Schedule 2: C-II

Schedule 3: C-III

Schedule 4: C-IV

Schedule 5: C-V

### Characteristics

- High abuse potential; not legal; no acceptable medical use; no prescriptions available.
- High abuse potential and severe dependence liability; current, accepted medical use; prescription drugs signed; not stamped prescription; 30-day supply; no refills.
- Less abuse potential; low-moderate physical dependence; high psychological dependence; by prescription only; expires within 6 months; max. 5 refills on one script.
- Less abuse potential than C-III drugs; accepted medical use; limited physical and psychological dependence; written or verbal prescription; expires in 6 months; max. 5 refills on one script.
- 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)

- Heroin, LSD, cocaine, marijuana, methamphetamine.
- Opium, morphine, codeine, methadone.
- Amphetamines, cocaine, barbiturates, Valium, Xanax, anabolic steroids.
- Chloral hydrate, meprobamate, paraldehyde, phenobarbital.

## pharmacokinetics

### Routes drugs take to get into the body

- Enteral:**
  - Enters the body through the GI tract.
  - Taken by mouth, through the rectum, under the tongue or held in the cheeks.
- Parenteral:**
  - 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:**
  - Drug 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 rapidly affects the extent to which the drug moves around in the body.
  - Blood Flow: Once in the blood stream, will get to the organs and tissues that are highly perfused.
  - Plasma protein 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.
- Organs** 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.

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**Ascencia Pharmacy Technician Prep  
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