



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
 - Bone**: 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
 - Amphetamines**, codeine, barbiturates, Valium, Xanax, anabolic steroids
 - Clonidine**, hydralazine, nifedipine, paroxetine, phenobarbital

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web the electric field is best given by 1 3 iv fig 1 3 1 4 five charges q_1 q_2 q_3 q_4 and q_5 are fixed at their positions as shown in fig 1 4 s is a gaussian surface the gauss s law is given by $\oint \vec{E} \cdot d\vec{s} = \frac{q_{\text{enc}}}{\epsilon_0}$ which of the following statements is correct e on the lhs of the above equation will have a contribution from q_1 q

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holds for any closed surface b in gauss's law the term q on the right side of the equation represents the

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