

Introduction	
Side Effect	expected; tolerable usually 5-30 mins upon admin
Adverse Reaction	usually not detrimental not expected; not tolerable usually months (3-6 months) present for pt w/ long-term medication <i>abdominal pain, edema, allergic reactions</i>
Receptor Site	embedded at site of action site where drug is most potent made of protein substances effects: drug initiates response (antagonistic, agonistic)
Site of action	location where drug exerts its therapeutic effect
Carcinogenicity	ability of drug to induce living cells to mutate to become cancerous <i>ex. strong medications</i>
Teratogenicity	drug that induces birth defects causes abnormal development of fetus in utero
Mechanism/Mode of Action	absorption, distribution, metabolism, excretion

Branches of Pharma	
Pharmacokinetics	process of ADME
Pharmacodynamics	biochemical and physical effect of drugs
Pharmacotherapeutics	"clinical pharmacology" how drugs may be best used in treatment of illnesses
Toxicology	study of poisons adverse effect of drugs in body
Pharmacognosy	natural drug sources

Sources of Drugs		
Natural	Plants	digitalis (foxglove) opium (opium poppy) <i>analgesic</i> belladonna <i>anticholinergic drug; increase pupil size, bowel movements</i> vincristine (periwinkle) <i>chemotherapeutic agent; AE: nerve damage</i>
	Animals	epinephrine, insulin
	Minerals	iron
	Chemical substances	
Lab Made	Natural Sources	insulin, atropine, laxative, cardiac drug, chemotherapeutic drugs
	Semi-synthetic	antimicrobial, human insulin chemically modified
	Biotechnology	manipulations to permit large-scale industrial production of complex natural substances or genetically altered biological substances

Source of Drug Info	
Pharmacopeia	official source of drug info list of products in medicine with description chemical tests
Formulary	collection of formulas and prescription
Package insert	has chemicals and study information in medicine box
Nursing textbooks	includes nursing interventions
Reference Books	Physician Desk References - compilations Drug Facts and Comparisons - cost, pt info, admin guidelines
Journals	Medical Letter - monthly review of new drugs, drug classes, and special treatment episodes
Internet Information	
Monthly Index of Medical Specialties (MIMS)	



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Drug Uses

Symptomatic Treatment	relief ex. biogesic, paracetamol
Preventice	avoid disease ex. vitamins
Diagnostic Drug	ex. contrast dye/medium
Curative	ex. chemotherapeutic drug
Health Maintenance	ex. antidiabetic drug
Contraceptive	

Drug Names

Chemical Name	chemical structure of drug coined at early stages of development
Generic Name	not capitalized
Brand Name	trade name; name registered

Drug Classification

classification according to effect on particular system, therapeutic uses, and chemical characteristics
ex. bronchodilators, antihistamines, antihypertensive

Prescription drugs with prescription label

Drugs prohibits dispensation without prescription

Medical prescription written order by qualified health professional to a pharmacist for a treatment to be provided to their patient
component: *date & time drug is written, drug name, drug dosage, route of admin, frequency and duration of admin, signature of MD*

Nonprescription Drugs or OTC Drugs drugs may be legally acquired without prescription

Illicit or Street Drugs drugs used/distributed illegally
ex: heroin, stimulants, cocaine

Investigational Drugs subjected to clinical studies in order to evaluate the usefulness of drug in treating the disease for which it is claimed to be affected



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