

SOURCES OF DRUG

Drug	Source	Therapeutic use (one use)
Atropine	Atropa Belladonna	Preanaesthetic medication, Mydriatic in refraction testing
Pilocarpine	Pilocarpus jaborandi	Glaucoma, dry mouth, sjogren's syndrome
Bromhexine	Adhatoda vasica	Productive cough
Reserpine	Rauwolfia serpentina	Hypertension
Ephedrine	Ephedra vulgaris	Bronchial asthma
Conventional insulin	Pig & horse pancreas	Diabetes Mellitus
Antisnake venom	Horse serum	Snake bite
Heparin	Ox lung, Pig intestinal mucosa	Deep vein thrombosis
Hirudin	Salivary glands of leech	Unstable angina
Rituximab	Hybridoma technology	Rheumatoid arthritis, NonHodgkin's lymphoma, CLL
Human insulin	Recombinant DNA technology	Diabetes Mellitus
Erythropoietin	Recombinant DNA technology	Anemia of chronic renal failure
Hepatitis B vaccine	Recombinant DNA technology	Prophylaxis of Hepatitis B infection
Cephalosporins	Fungi -Cephalosporium acremonium (Cefamycins from Bacteria – Streptomyces	Bacterial infections including URI, UTI, Osteomyelitis etc
Desferrioxamine	Streptomyces pilosus	Iron poisoning, Thalassemia
Doxorubicin	Bacterium - Streptomyces peucetius	AML, ALL, Ca breast, Thyroid, Ovary
Bacitracin	Bacillus subtilis	Gram positive bacterial infections
Streptokinase	Beta haemolytic streptococci	ST elevation Myocardial infarction (STEMI)
Chloroquine	Synthetic	Malaria

Others :

Hyosine	Hyoscyamus niger	Motion sickness
Penicillin	Penicillium chrysogenum	Bacterial infection
Ivermectin	Streptomyces avermitilis	Filariasis
Fusidic acid	Fusidium	Cutaneous infections

PICTURES

1. *Physostigma venenosum*



Part used : Seed (Calabar beans) - Alkaloid

Drugs : Physostigmine

Uses: Glaucoma, Atropine poisoning, Paralytic ileus

2. *Vinca rosea* / *Catharanthus roseus*



Part used :dry leaves - Alkaloids

Drugs : Vincristine, Vinblastine, Vinorelbine

Uses :

Vincristine- Leukaemia, non hodgkins Lymphoma

Vinblastine-some solid tumours like Ca testes, breast,ovary etc

Vinorelbine -

3. *Papaver somniferum*



Part used : Exudate from the unripe capsule of seed

Drugs : Morphine, Codeine, Thebaine

Uses: preanaesthetic medication, Cancer pain, acute LVF, Non productive cough(Codeine) etc

4. *Chondrodendron tomentosum*



Part used : Bark - Alkaloids

Drugs : d Tubocurarine

Uses: Adjuvant in various surgeries as skeletal muscle relaxant

5. *Artemisia annua*



Part used – Leaves and stem- Alkaloids

Drugs : Artemisinin derivatives : Artesunate, Arte ether, Artemether

Uses : Resistant vivax malaria & Falciparum malaria

6. *Digitalis purpurea* , *Digitalis lanata*



Parts used: leaves- alkaloids

Drugs : Digitoxin (*D. purpurea*), Digoxin (*D. lanata*)

Uses : CHF, Atrial fibrillation, Atrial flutter, Supraventricular tachycardia