## **DRUG NAMES**

- Every drug has at least three names—a chemical name, a generic (nonproprietary or official) name, and a trade (proprietary or brand) name.
- The chemical name describes the atomic or molecular structure of the drug. This name is usually too complex and cumbersome for general use.

 So an official body assigns a generic name to a drug. The generic names for drugs of a particular type (class) usually have the same ending. For example, the names of all betablockers, which are used to treat such disorders as high blood pressure, end in "lol."  The trade name/proprietary name is chosen by the pharmaceutical company that manufactures or distributes the drug. Patented drugs are usually sold under a trade name. Generic versions of trade-name drugsmanufactured after expiration of the pharmaceutical company's patent-may be sold under the generic name (for example, ibuprofen) or under the manufacturer's own trade name (forexample, Advil).

# **DRUG GROUPS**

- Understanding what group a drug belongs to is also useful.
- Broadly, drugs are classified by therapeutic group—that is, by what disorder or symptom they are used totreat.
- For example, drugs used to treat
- high blood pressure are called
  antihypertensive, and

✓ drugs used to treat nausea are called antiemetic (emesis is the medical term for vomiting).

- Within each therapeutic group, drugs are categorized by classes. Some classes are based on how the drugs work in the body to produce their effect.
- For example, diuretics, calcium channel blockers, beta-blockers, and angiotensinconverting enzyme (ACE) inhibitors are all classes of antihypertensives that work differently.

## **DRUG USAGES**

- Drugs have 3 medical uses.
- Therapeutic use: Drugs are used to control, improve or cure symptoms, conditions or diseases of a physiological or psychological nature. E.g of the therapeutic use of drugs include the following:
- Antibiotics to kill the bacteria that cause an infection
- Analgesics to control the pain and inflammation of arthritis
- Hormone replacement therapy for the symptoms of menopause



### Sources of drugs.

Drugs are obtained from various sources. According to sources they are:-**1. Natural drugs**

A/ Plants

E.g. .Digoxin from Digitalis purpurea .Atropine from Atropa belladonna

.Quinine from Cinchona officinalis

#### **B/** Animals

E.g.. Insulin from pig

.Cod liver oil from Cod fish liver.

C/ Minerals

E.g.. Iron, Iodine, Potassium salts.

#### D/ Micro – organisms

E.g. .Penicillin from penicillium notatum.

.Chloramphenicol from Streptomyces venezuelae (Actinomycetes).

#### 2. Synthetic drugs

- prepared by chemical synthesis in pharmaceutical laboratories

E.g.. Sulphonamides, quinolones, barbiturates

#### **3.** Semisynthetic drugs

- prepared by chemical modification of natural drugs.

E.g.. Ampicillin from penicillin G.

.Dihydroergotamine from ergotamine.

#### 4. Biosynthetic drugs

- prepared by cloning of human DNA in to the bacteria like E.coli.

E.g.. Human insulin.

