**Drug/ Medicine**

Drug is a chemical moiety (either natural or synthetic) which is used for the prevention, diagnosis and treatment of any disease or disorder. Disease is caused by microorganism mainly and disorders are result of imbalance of various biochemicals within body itself.

**Adverse Effect**

Any effect produced by the drug which is not expected or not desired and unintended is called adverse drug effects. It is one of the broad definitions which cover many subtypes from simple to serious effects.

**Desirable Effects**

Desirable effect means all those effect produced by drug which we are expecting and willing to get.

Example

Paracetamol, Nimesulide, Ibuprofen, Aspirin, Indomethacin, Aspirin

**NSAIDS**

Non Steroidal Anti-inflammatory Drugs

**Analgesic Effect**

Reduce pain by inhibiting PG synthesis and increasing pain threshold potential.

**Antipyretic Effect**

Reduce fever by controlling thermoregulatory center in brain

**Anti-Inflammatory Effects**

Reduce inflammation by inhibiting COX-I and COX-II

**Unpredictable**

Type A or Augmented

Side Effects

Rashes, Etching

Type B or Bizarre

Secondary Effects

Suspension of bacterial flora

Toxic Effects- Poisoning

Intolerance

Drug Allergy- Humoral & Cell Mediated

Photosensitivity- Phototoxic and Photo allergic

Drug Dependence

Physiological-Physical-Drug Abuse-Drug Addiction-Drug Habituation

Drug Withdrawal reaction- Alcohol and LSD

Teratogenicity- Thalidomide

Mutagenisity or Carcinogenicity

Drug Induced Disease- Peptic Ulcer by NSAIDS