

Adverse Drug Effects

Introduction-Classification-Categorization

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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 And Disorders are result of imbalance of various biochemicals within body itself.

Disease
Disorder

Diagnosis

Treatment

Drug/Medicine

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.

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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

Undesirable Effects

All those effect given by drug which is not good for us and it may cause simple to dangerous effect.

Different Categories

Predicted

Type A or Augmented

Side Effects

Rashes, Itching

Unpredicted

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

Mutagenicity or Carcinogenicity

Drug Induced Disease- Peptic Ulcer by NSAIDS