

Important Terms & Definitions, Drug Nomenclature and Drug Information Sources (Lecture-6 : Dated 12.10.2020)



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Important Terms & Definitions

Dose & Dosage

Dose : It is the total (absolute) **quantity/amount** of a drug applied administered **at one time** to a patient to get the desired therapeutic response.

Dosage : It refers to administration of a drug in prescribed amounts. It generally indicates **dose, frequency** and **duration** of therapy.

Dosage Form, Dosage Regimen

Dosage Form : A drug preparation/ formulation that provides convenient mode of administration of a drug to the patient.

Dosage Regimen : It refers to complete schedule of drug therapy including the dose, route, frequency of administration and duration of therapy.

Loading & Maintenance Dose

- Loading Dose** : It is one or series of doses that may be given at the onset of therapy with the aim of achieving the target concentration rapidly.
- Maintenance Dose** : It is a series of relatively small doses that follow the loading dose in order to maintain an effective concentration in the bio-phase.

Drug Nomenclature

1. Chemical Name

- Chemical nomenclature like **IUPAC** or **CAS**.
- Useful to Chemists, Scientists & Technical personnel as its tells about chemistry of the compound.
- Generally **long & complex** and **hard to remember**.

2. Generic/ Official/ Non-Proprietary/ Trivial Name

- The chemical is entered in Pharmacopoeias under this name.
- The chemical compound is known throughout the world by this generic name.
- Approved names are generally used by researchers and non-clinical teachers.

3. Proprietary/ Trade/ Brand Name

- One chemical compound can have several proprietary names.
- Even one proprietary name may not contain single chemical.
- Manufacturers and clinicians prefer to use brand names.

<i>Chemical name</i>	<i>Generic name</i>	<i>Trade name</i>
3,4-dihydroxy phenyl ethanol methylamine	Epinephrine	Adrenaline, Epipen
Acetylsalicylic acid	Aspirin	Ecosprin, Fasprin, Bufferin

Drug Information Sources

1. Pharmacopoeias

- It is a drug compendium consisting of officially recognized drug preparations/ formulations.
- It gives the information on source, properties, purity, potency of recognized drugs and tests for their identity.
- A pharmacopoeia is the official publication of drug standards.
- Pharmacopoeias are revised regularly.

Pharmacopoeias contd...

IP	The Indian Pharmacopoeia
IP	The International Pharmacopoeia
USP	The United States Pharmacopoeia
BP	The British Pharmacopoeia
EP	European Pharmacopoeia
I.Vet.P	The Indian Veterinary Pharmacopoeia

Pharmacopoeias contd...

- The abbreviation of the pharmacopoeia is mentioned **after the name of the drug**.
- For example, **Tr. Benzoin Co. I.P.** i.e. the tincture of benzoin corresponding to the standard tincture of benzoin mentioned in the Indian Pharmacopoeia.

2. Formularies

- Formularies are list of prescription drugs or medicines, both generic and brand names.
- The main reason for developing formularies is to promote rationale prescribing and to limit costs.
- The formularies are developed by pharmacy and therapeutics committees.
- Some countries have their own Pharmacopoeias and official National Formularies.
- Formularies are smaller in size and much handier compared to the Pharmacopoeias.

Formularies contd...

NF	The National Formulary (USA)
NF	The National Formulary of India
BNF	The British National Formulary
BPC	The British Pharmaceutical Codex
B.Vet.C.	The British Veterinary Codex
ADR	The Accepted Dental Remedies

3. Other Sources

(i) Martindale (The complete Drug Reference)

- Reference book on drugs and medicaments used throughout the world.
- It was earlier published as Martindale: The Extra Pharmacopoeia, the 1st Edition was published by William Martindale and is still known as Martindale by its users.

Other Sources

contd...

(ii) Merck Index

- An encyclopaedia of drugs, chemicals and biologicals published by U.S. pharmaceutical company Merck & Co.
- It was earlier published as Martindale: The Extra Pharmacopoeia, the 1st Edition was published by William Martindale and is still known as Martindale by its users.

Other Sources

contd...

(iii) Monthly Index of Medical Specialities (MIMS)

- It is a pharmaceutical prescribing reference guide published in UK since 1957.
- Also published in other Countries. MIMS, India launched in 1980.

Other Sources

contd...

(iv) Current Index of Medical Specialities (CIMS)

- It is a commercial Indian Drug Index.

(v) Current Indian Veterinary Index (CINVEX)

- It is a commercial Indian Veterinary Drug Index.



Thank You