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PHARMACEUTICS – I

UNIT 1

TOPIC :

- **Dosage forms :** Introduction to dosage forms, classification and definitions



Dosage form

→ It is the physical form of a drug or medicine which are ready for use (administration).

→ Eg : Tablets (Solid dosage form), Syrups (Liquid dosage form), etc....

Classification of Dosage form

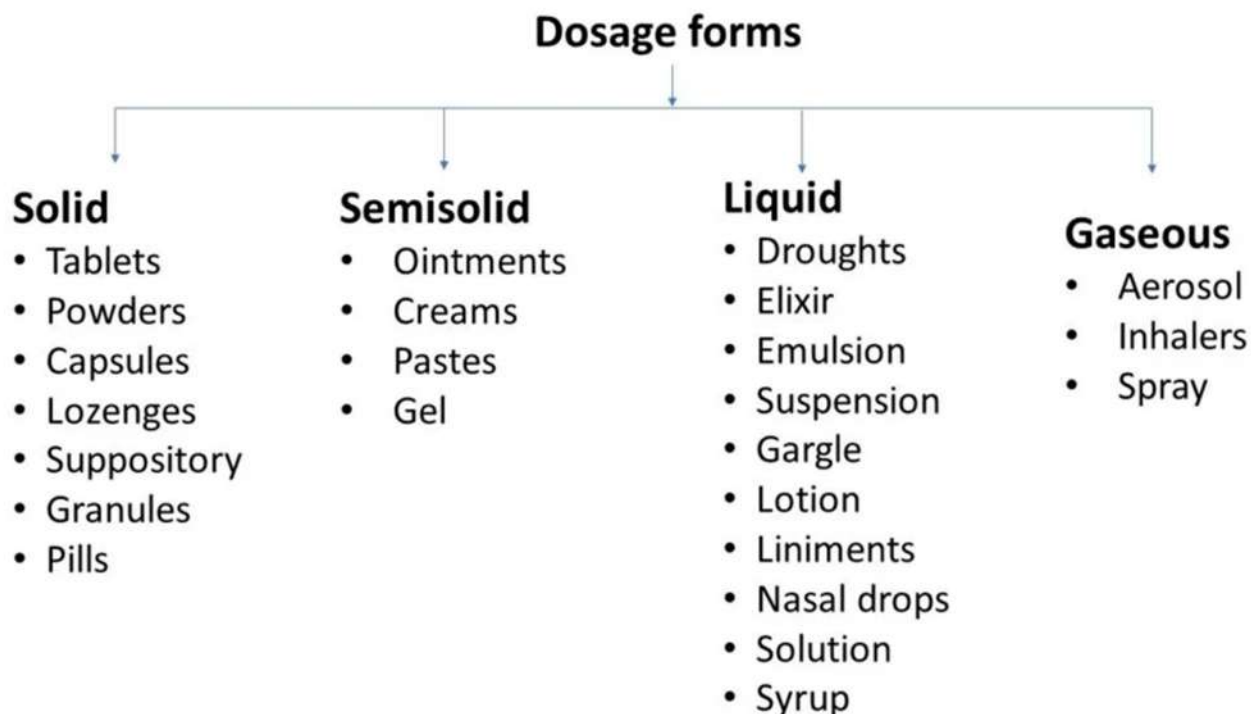
Dosage form can be classified on the basis of physical state, administration route, application site and use..

Physical state : Solid, Semi-solid, Liquid, Gaseous, etc..

Route of Administration : Oral, parenteral, Rectal, Nasal, etc..

Site of Application : Skin, eye, hand, foot, hair, nose, etc..

Uses : Internal & External



Solid dosage form

→ Solid dosage formulations are important dosage form in pharmaceuticals, in which medicament are in solid form.

Unit Dosage Form

- **Tablet** : This is a unit solid dosage form of medicament which are prepared by moulding or compression. It is a mixture of active ingredient and excipient in dry powder form and may be a tablet by compression.
 - Eg : Dolo 650 mg, Paracetamol, etc....
- **Capsule** : The capsule are solid unit dosage form in which one or more medicament within enclosed by a small soluble gelatin shell It may be hard & soft.
 - Eg : Eglon (vitamin E), Becasules, etc...
- **Powder** : These are the solid dosage form and made up with dry or fine particles of medicament in unit dosage form it is meant for one suitable dose for one time.
 - Eg : ENO, etc....
- **Pills** : Pills the small, rounded solid dosage form Containing medicament and are intended to be administer orally It is widely use in birth control.
 - Eg: Bootstrap, etc....

Bulk Dosage Form

- ❖ **fine powder** : These are the Bulk solid dosage form and it is made up with very fine (clear) particles of dry medicament, It is meant for acting inside on the body.
 - Eg : Sponge, etc...

- ❖ **Granules** : These are the bulk solid dosage form and these are the aggregation of fine particles of powder in a mass of about spherical shape.
 - Eg : Erythromycine, etc..
- ❖ **Effervescent granules** : These are the bulk solid dosage foam and it is a combination of citric acid and sodium bicarbonate, converting them into granules gives a delayed and long lasting sourness, bitter flavor impact
 - Eg : Urivin, Ural, etc....
- ❖ **Dusting powder** : These are the bulk dosage form and meant for external use and applied on the skin in very fine state to avoid irritational.
 - Eg : fluconazole, Candid, etc....
- ❖ **Insufflation** : These are bulk solid dosage form and they are medicated for introduction into body cavity such as nose, throat pain, ear & vagina. with help of apparatus called Insufflation It is a blower which stream the powder into site of action.
 - Eg : Various Drugs or gases O₂, CO₂, etc.....
- ❖ **Dentifrices** : These are bulk solid dosage form and it is a powder meant for cleaning of both applied with tooth Brush or finger we use this as softy not aggressively otherwise it may damaged tooth surface
 - Eg : Toothpaste, toothpowder, etc.....
- ❖ **Snuff** : These are finely divided solid dosage form of medicament which are inhaled into nostril for its antiseptic, bronchodilator action and it is also a drug like tobacco which is smoked through into the nose
 - Eg : Tobacco, etc...
- ❖ **Ear powder** : These are bulk solid dosage form and it is made up with fine particles of powder and means for the ear of any Cleaning purpose or for any cavity.

- Eg : Sodium Bicarbonate ear drops.....

Liquid dosage form

- These are those dosage form in which solution are in medicines liquid form which are meant for internal, external or parental use.

Monophasic liquid dosage form :

- In which medicament is present in one phase system. It is represented by a True solution (homogenous mixture)

- **Syrup** : It is a saturated solution of sucrose in purified water The concentration of sugar is 66.7 % W/W. It is sweet visous preparation

- Eg : Simple syrup, etc.....

- **Elixir** : These are sweet aromatic preparation and are usually coloured. These are alcohol base, water, glycerin, flavouring agent & some preservative.

- Eg : Digoxin, elixir, etc....

- **Linctus** : These are liquid dosage form and meant for internal use and it is oral preparation that are generally prescribed for relief of Cough :

- Eg : Codeine phosphate linctus BPL, etc...

- **Drop** : These are liquid dosage form and meant for internal use also for external and it contain medicament and administrate for orally use.

- Eg : Polio drop, etc....

- **Liniment** : These are liquid and semi-liquid and want preparation and meant for external use and applied to the skin by friction or rubbing of skin to reduces pain

- Eg : Camphor liniment, etc...

- **Lotion** : it is a liquid preparation meant for external application without friction they are directly applied on the skin with help Some absorbant material such as are cotton, wool.

- Eg : Calamine Lotion, etc...
- **Gargles** : Gargles are aqueous solution used to prevent or treat throat infection they are available in concentrated form they with direction for dilution with warm water before use.
 - Eg : Phenol gargles, Potassium chlorate, etc...
- **Throat paint** : They are viscous liquid preparation used for mouth and throat infection and in this glycerine is commonly used as a base due to its viscous property It has a sweet taste.
 - Eg : Betadine antiseptic, etc....
- **Nasal drop** : These are solution of drug that are instilled into (nose) with dropper, these are usually aqueous
 - Eg : Ephedrine Nasal drops, etc....
- **Sprays** : These are preparation of drug in medicament which may be aqueous, alcoholic or glycerine they are applied to mucous membrane of nose, throat, or may be on skin with an atomiser.
 - Eg : Mucous sprays, Perfumes, etc...
- **Eye lotion** : These are liquid dosage form and aqueous solution used for washing eyes. The eye lotion are supplied in Concentration form and are required to be diluted with warm water immediately before use.
 - Eg : Sodium chloride eye lotion, etc....
- **Mouth wash** : These are aqueous solution with pleasant taste & odour used to make clean and deodorise buccal cavity. They contain antibacterial agent, alcohol glycerin, sweetening agent, flavouring agent & colouring agent.
 - Eg : Sodium chloride mouthwash.
- **Ear drops** : These are solution of drug that are instilled into ear with dropper. These are generally used for cleaning ear, softening wax and treatment of mild infection,
 - Eg : Phenol ear drops etc...

Biphasic liquid Dosage form

→ Those liquid dosage for which contain two phase.

✚ **Emulsion** : An emulsion is a biphasic liquid preparation containing two immiscible liquid, one of which is dispersed as minute, globules into the other this is mixed with the help of emulsifying agent

- Eg : Liquid Paraffin Emulsion

✚ **Suspension** : These are the biphasic liquid dosage form of medicament in which the finely divided solid particles ranging from 0.5 to 5.0 micron dispersed in a liquid or semisolid vehicle.

- Eg : Barium Sulphate suspension I.P.

Semi-Solid dosage form

→ They contain both property, liquid as well as solid

❖ **Ointment** : These are semi-solid preparation meant for application to skin or mucous membrane, They usually contain medicament or dissolved suspended or emulsified in ointment base. (it contain suitable antimicrobial preservative)

- Eg : Salicylic acid ointment, etc....

❖ **Creams** : These are viscous semi-solid emulsion which are meant for external use. It is of two types, Aqueous base and oily base. It is applied to the skin..

- Eg : Cold Creams, Vanishing Creams etc...

❖ **Pastes** : It is like ointment, these semi-solid preparation meant for external application to skin They are finely powdered solid such as starch, etc...

- Eg : Peptizole, etc...

❖ **Gels** : These are semi-solid dosage form of at least two constituents, consisting of a condensed mass enclosing by a liquid.

- Eg : Voltaren gel (treat osteoarthritis)

- ❖ **Suppositories** : These are then semi solid dosage form which is inserted into the body Cavity other than mouth It is rarely used, when patient is not is in the condition to take medicine Orally
 - Eg : Dulcoflex suppository etc...
- ❖ **Pessaries** : It is a types of suppositories, which is inserted into the vagina for the treatment.
 - Eg : Cotrimazole pessaries etc...

