



LIQUID DOSAGE FORMS

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INTRODUCTION

Dosage forms are essentially pharmaceutical products in the form which involves a mixture of active drug components and nondrug components (excipients).

Liquid form of a dose of a drug used as a drug or medication intended for administration or consumption.

ADVANTAGES

- 1. Better for patients who have trouble swallowing expiration than other.**
- 2. More flexibility in achieving the proper dosage of medication.**
- 3. Palatable.**

DISADVANTAGES

- a. Shorter life than other dosage form,
- b. Harder to measure accuracy,
- c. Need special storage condition.
- d. Less stable.

Liquid dosage form can be administered-

1. Topically - lotions or suspension applied to the skin,
2. nasal drops, ear drops, eye solutions
3. Orally (p.o.) – oral suspension, emulsion & solution.
4. Parenterally –
 - subcutaneous injection (s.c.),
 - intramuscular injection (i.m.)
 - intravenous administration (i.v.)

SYRUP

Syrups are concentrated aqueous preparations of a sugar or sugar substitute with or without flavoring agents and medicinal substances.

Types of syrup:

1. Medicated
2. Non-medicated
3. Flavored

ELIXIR

Elixirs are clear, sweetened hydro-alcoholic solutions.

These are intended for oral use and are usually flavored to enhance palatability. Usually less sweet than syrups and less viscous.

SUSPENSION

A suspension is a heterogenous mixture containing solid particles that are sufficiently large for sedimentation. A suspension consists of a dispersion of relatively coarse particles, usually in aqueous vehicle.

Suspensions may be used for oral and topical administration. Like solutions, oral suspensions are useful in children and patients who cannot tolerate a solid dosage form.

EMULSION

An emulsion is a mixture of two or ore liquids that are normally immiscible. Emulsions are two-phase systems consist of liquid drug substances. They are classfied as:

oil-in-water emulsion (O/W)

water- in-oil emulsion (W/O)

LINIMENT & INFUSIONS

Liniment also known as embrocation, is a medicated topical preparation for application to the skin. Preparations of this type are also called balm.

Infusion is a dilute solution of the readily soluble constituents of crude drugs (from the soft parts of plants). Fresh infusions are prepared by macerating the drugs for a short period of time (15 min) with boiling water.

ADDITIVES

- a,. Antimicrobial agents,
- b. Buffering agent,
- c. Flavoring agent,
- d. Coloring agent,
- e. Suspending agent,
- f. Emulsifying agent,
- g. Stabilizing agent,
- h. Diluent.

Thank
you!

