

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

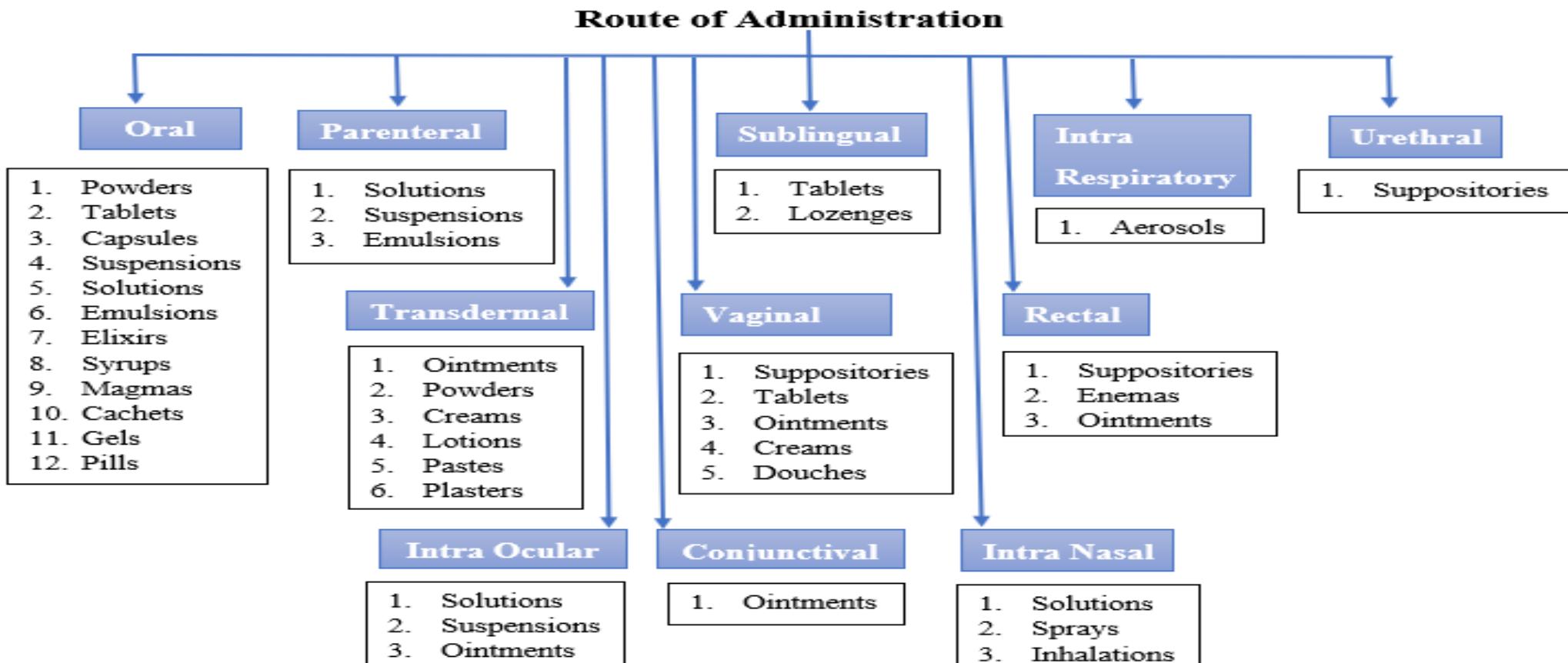
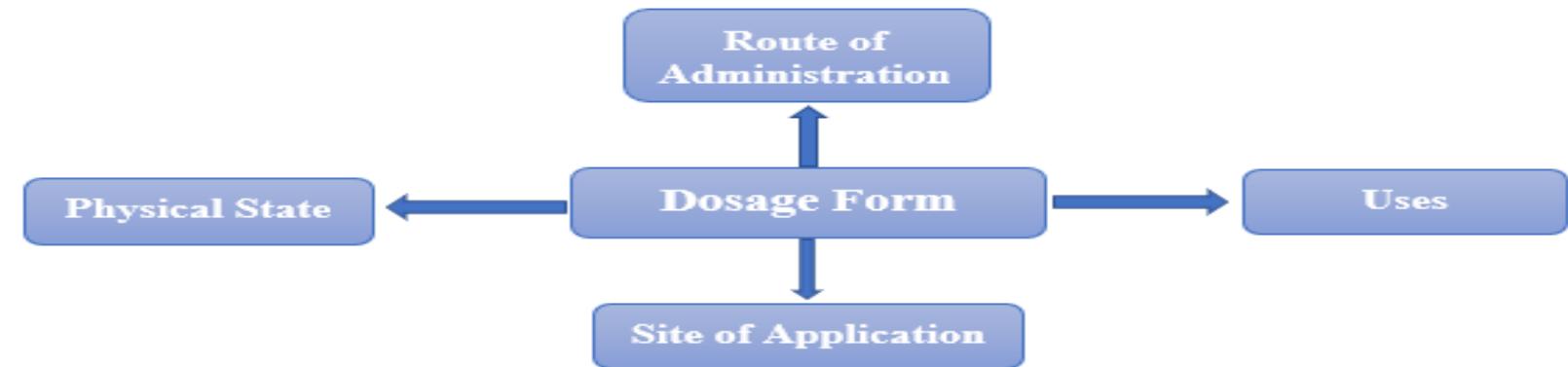
Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai

Approved by Pharmacy Council of India, New Delhi.

Coimbatore -641035

**COURSE NAME: PHARMACEUTICS I
(BP 103 T) I YEAR / I SEM**

**TOPIC: PHARMACEUTICAL DOSAGE
FORMS-INTRODUCTION, MONOPHASIC**



Empathize

Understand patient needs, preferences, and challenges in drug delivery

Define

Identify problems such as bioavailability, dosing accuracy, and patient adherence

Prototype

Develop and formulate experimental dosage forms

Dosage Forms

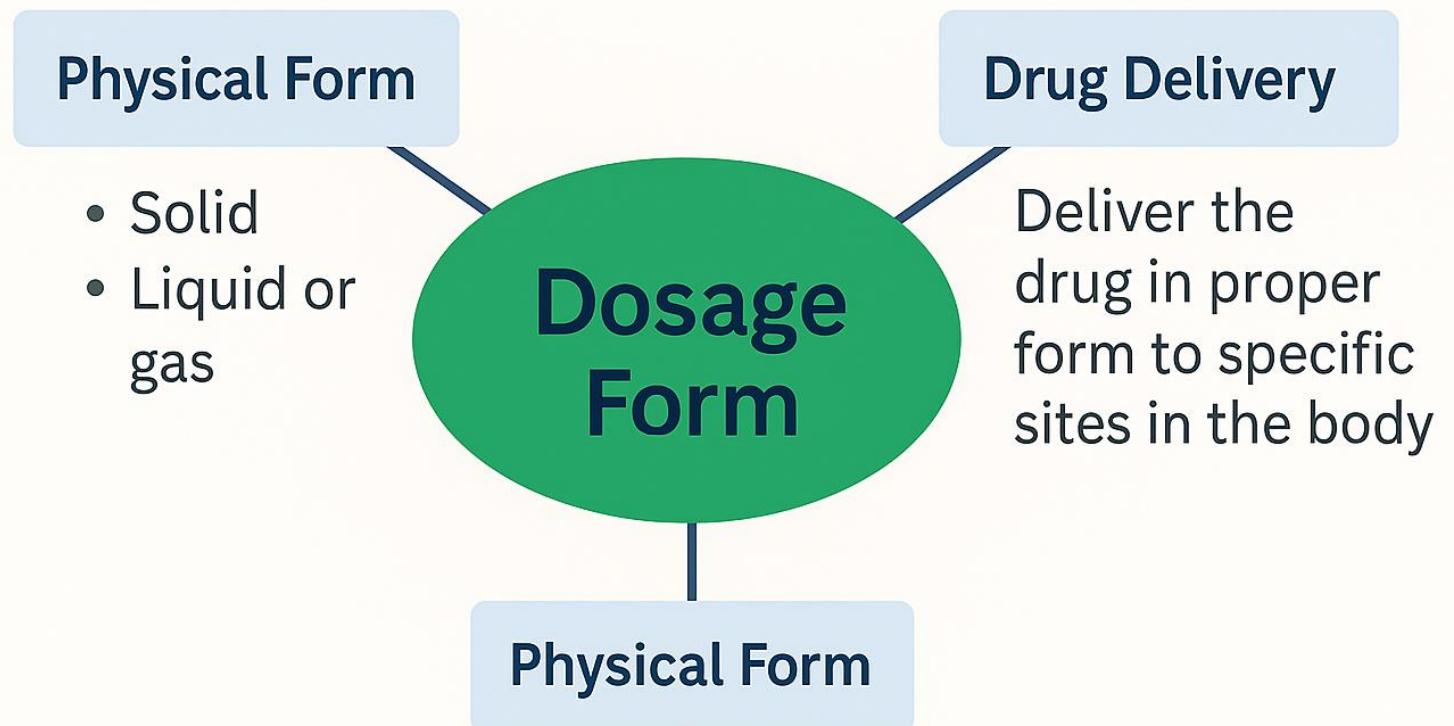
Ideate

Brainstorm new dosage forms and innovative drug delivery systems

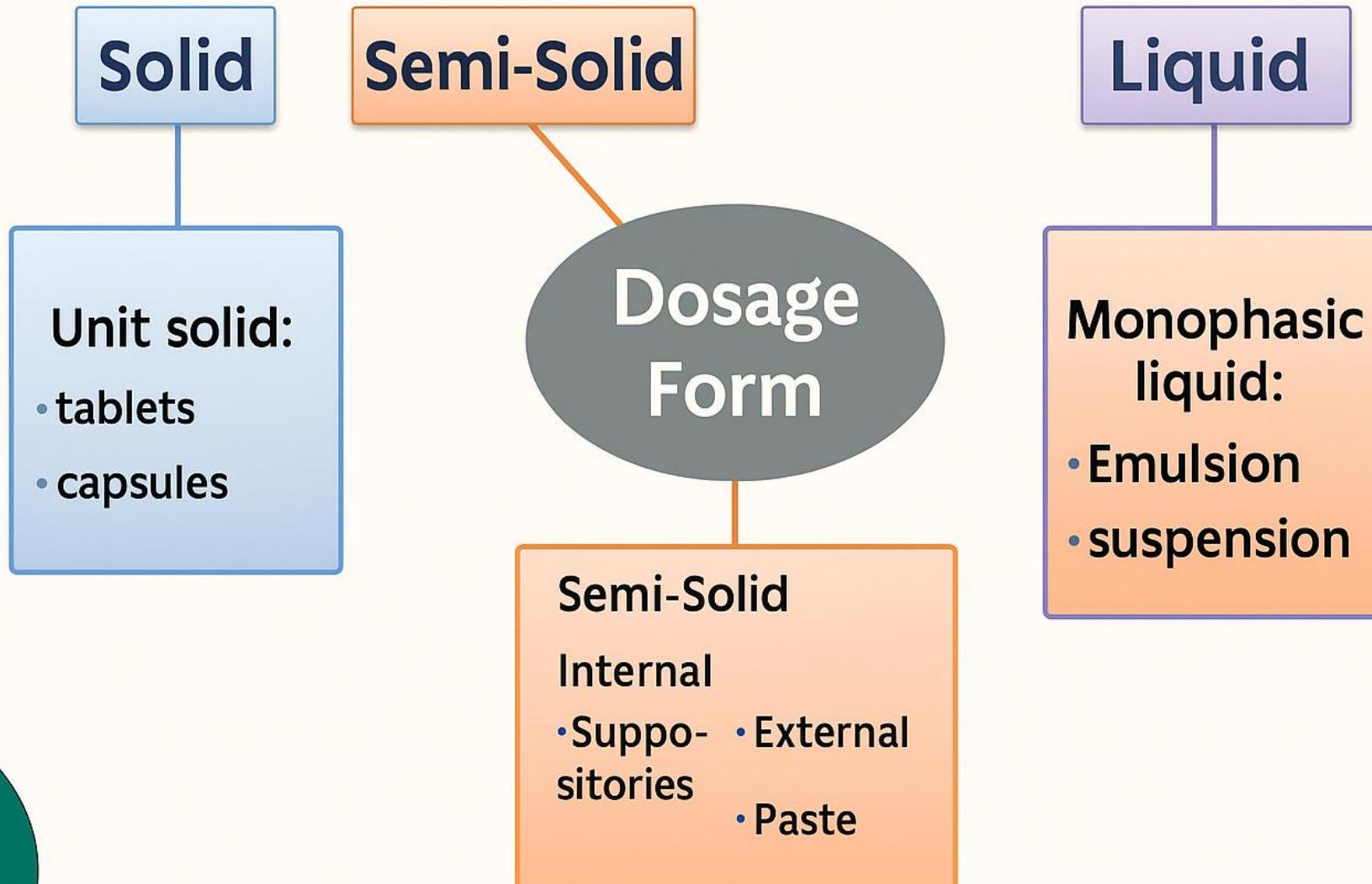
Test

Evaluate prototypes for effectiveness, safety and patient acceptability

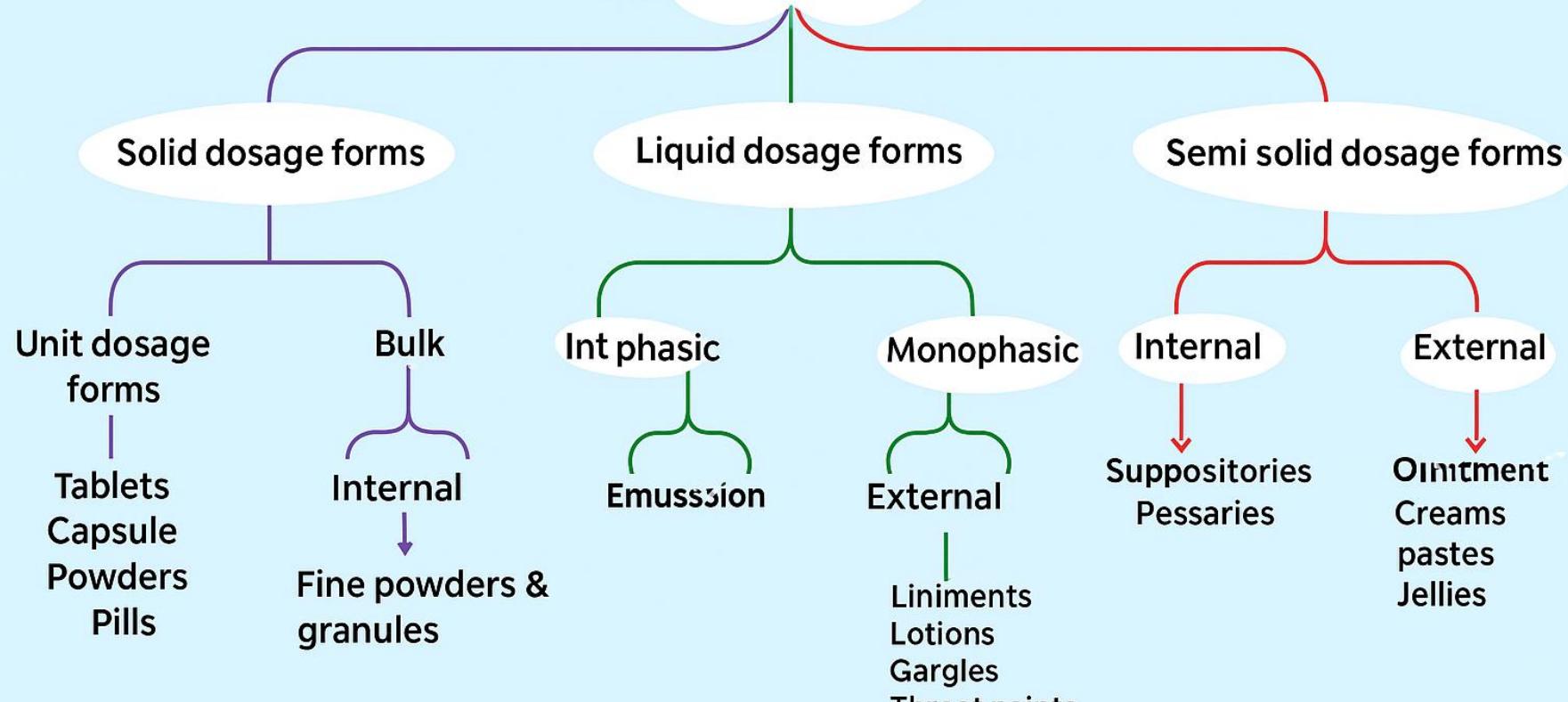
What is a Dosage Form?



CLASSIFICATION



Classification



What is the need of a dosage form ?



Protection

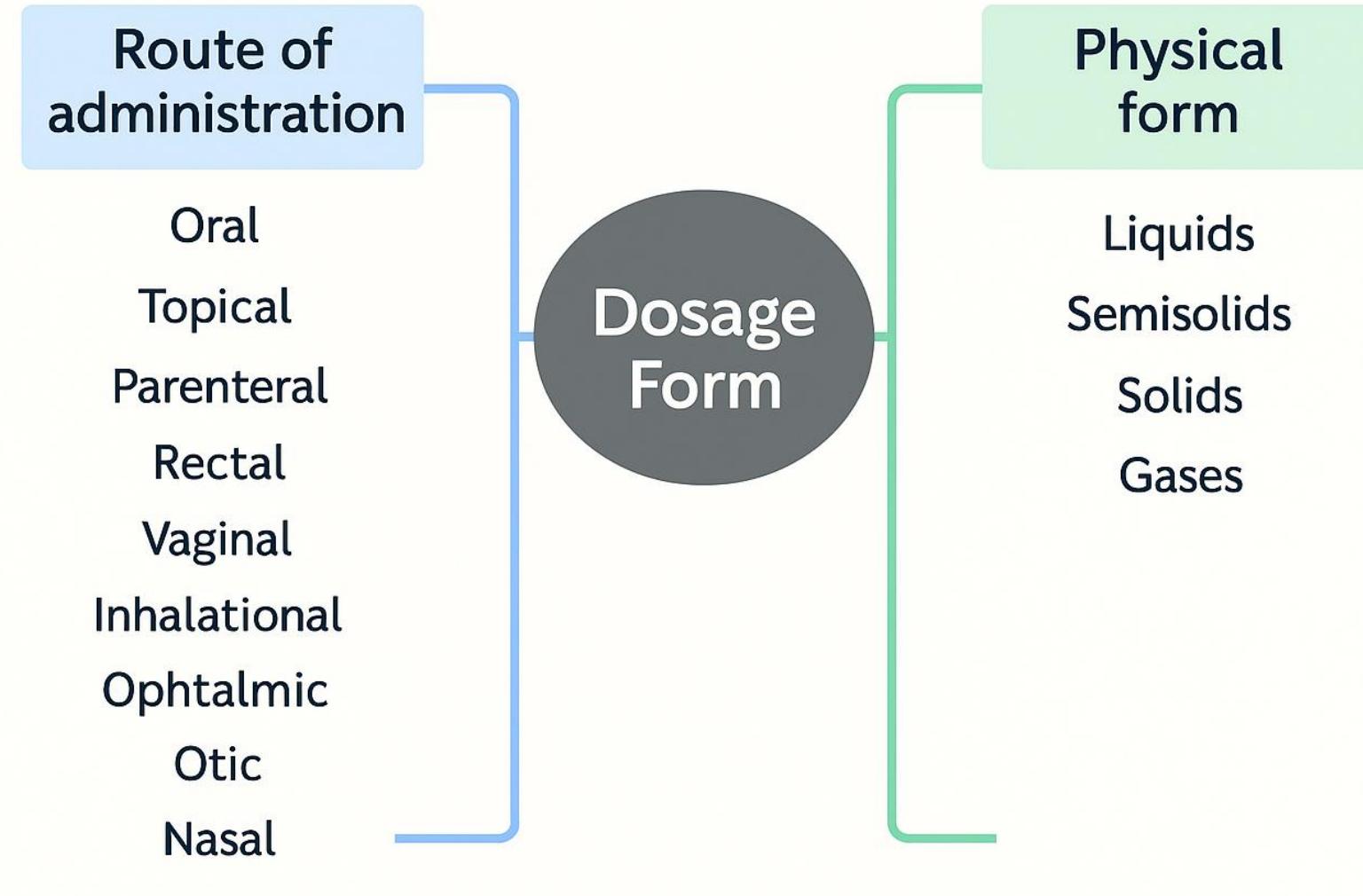
1. Protection from external environment eg. coated tablets and sealed ampoules.



To improve therapeutic activity

1. To provide optimal drug action directly to the site of action eg ointments.
2. To place the drug directly in to the orifices eg. Rectal and vaginal dosage forms
3. To provide optimal drug action in the blood stream eg Injections
4. To provide rate controlled drug action eg modified release dosage forms

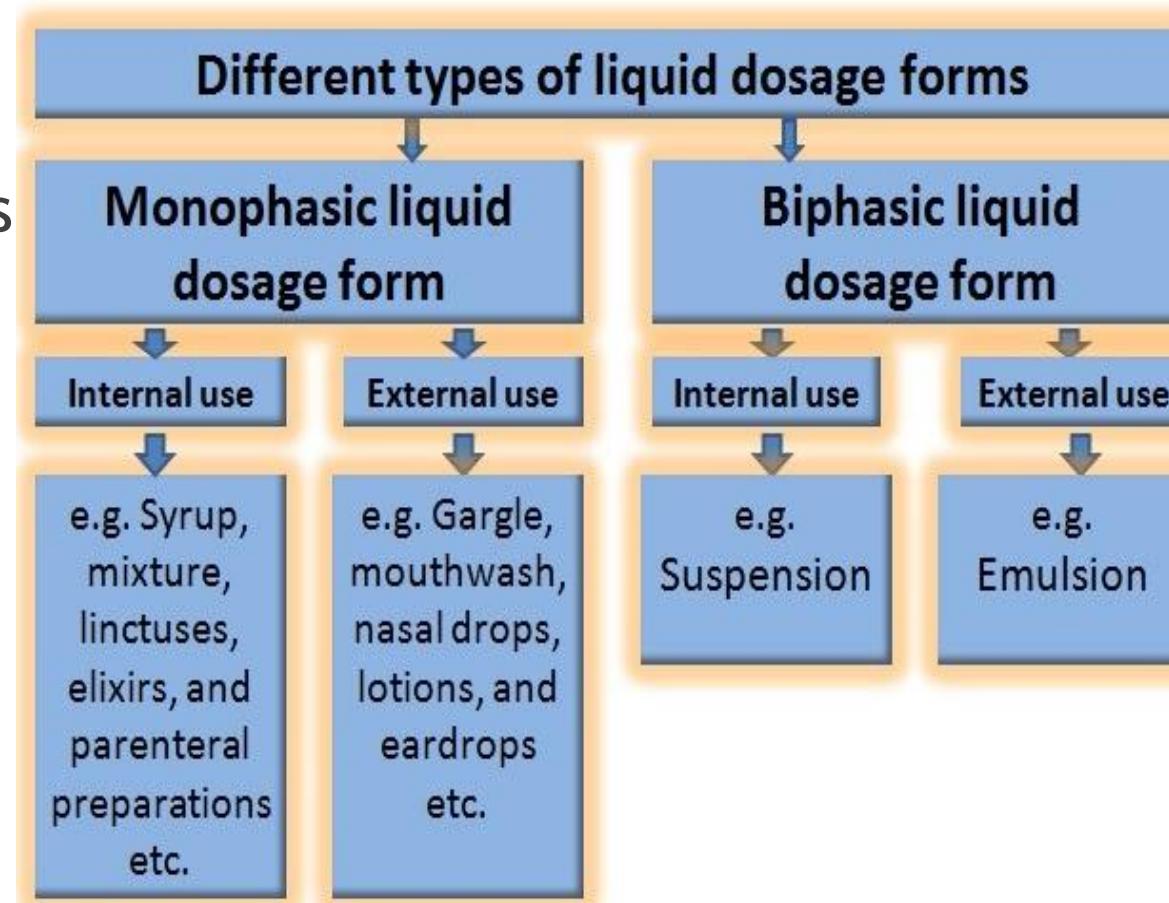
Classification of Dosage forms

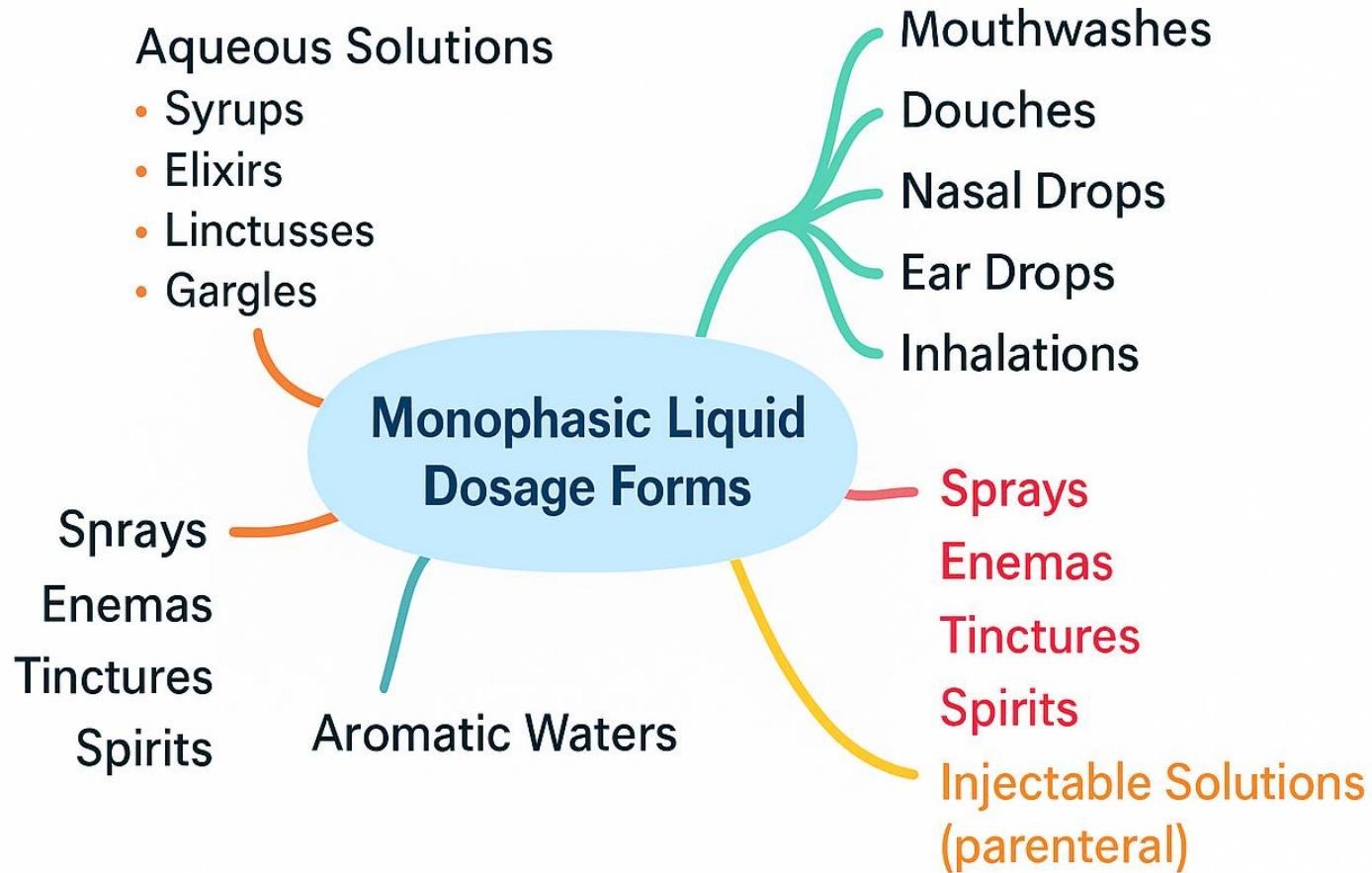


Classification of Liquids

Liquid dosage forms can be classified into 2 major classes i.e.

- Monophasic liquids
- Biphasic liquids

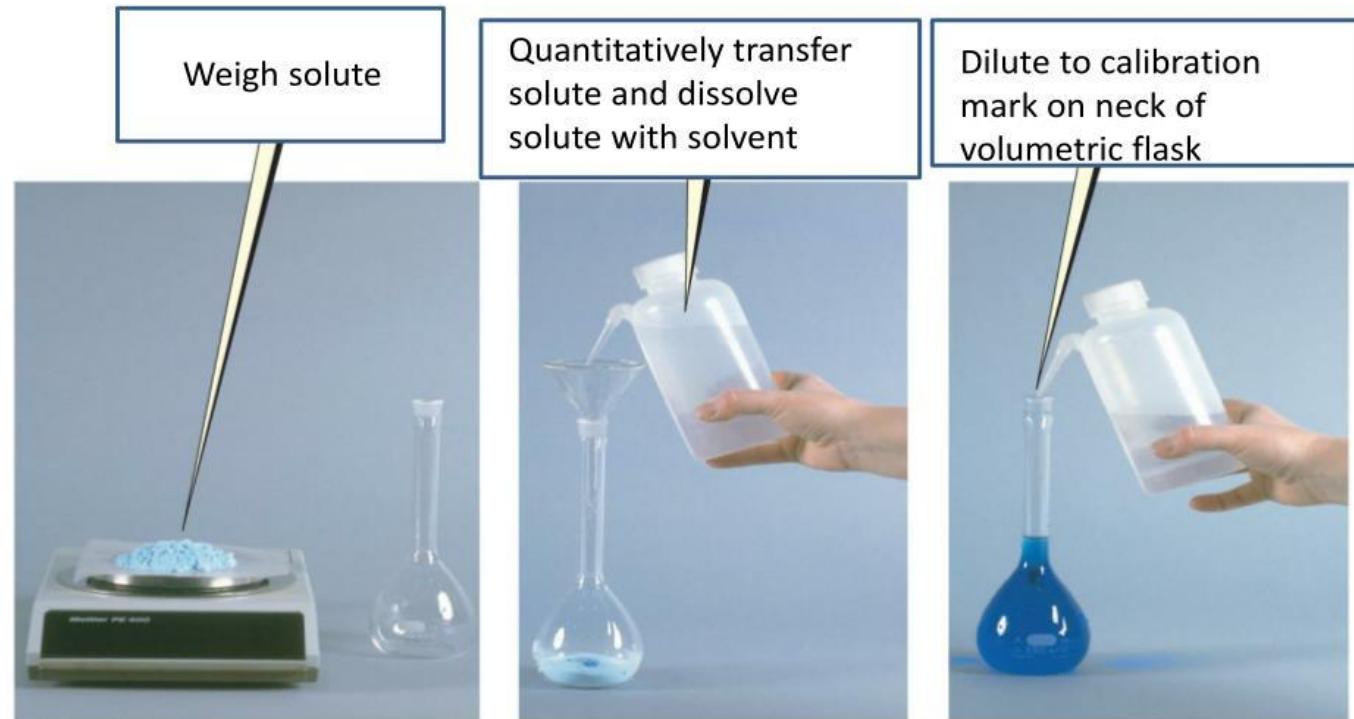


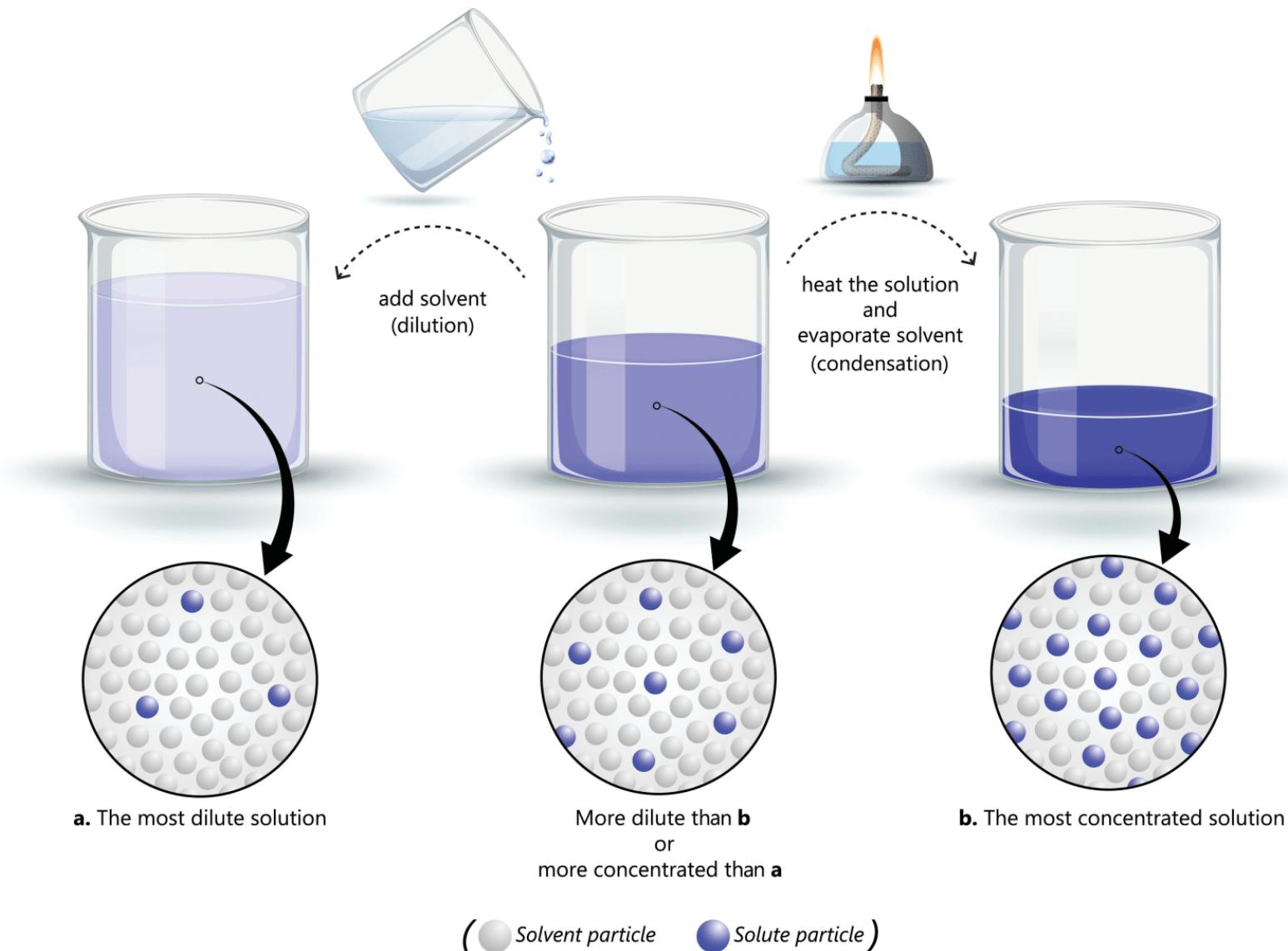




Monophasic liquids (Solutions)

Prepare A Solution



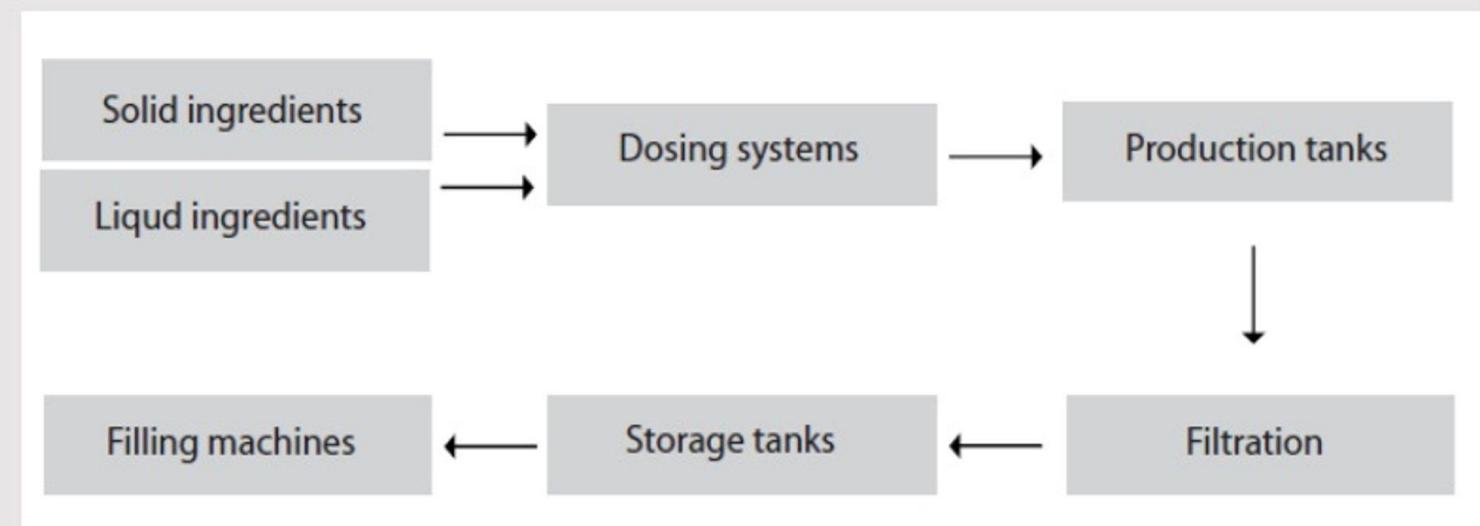




SYRUPS

PREPARATION OF SYRUP

Pharmaceutical syrups are produced by mixing purified water, sweeteners, active ingredients (API), aromas, flavours and other ingredients (thickeners) etc.



Solutions and Elixirs

Solutions

Definition: Liquid preparations containing one or more dissolved substances

Common solvents:
Water or aqueous base used, sometimes alcohol or glycerin

Elixirs

Definition: Sweetened, flavored solutions of alcohol and water

Alcohol content:
5-40% alcohol, acts as solvent and preservative



LINCTUSES

Linctuses

Viscous, liquid oral preparations generally prescribed for cough relief, e.g.: Codeine Linctus

Contains demulcent, sedative & expectorant medicaments

5 mL small dose volume sipped and swallowed slowly



LOTIONS



Liquid preparations meant for external application without friction

Local action as **cooling, soothing or protective** purposes

Aqueous and non aqueous lotions
(Alcoholic lotions)
Cleansing, moisturizing and antiseptic lotions





GARGLES



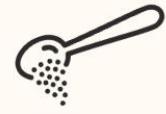
Preparing Salt Water For Rinses and Gargles



Gather all the Ingredients



Heat One Cup (240 ml)
of water till luke warm



Add half a tea spoon of salt



Stir Well

www.dentistmaa.com



MOUTH WASHES

EXAMPLES OF MOUTH WASHES

- ❑ **Antiseptic:** Listerene or Phenolic mouthwash
- ❑ **Analgesic:** lidocaine hydrochloride
- ❑ **Bactericidal (Cosmetic):** Fluoride mouthwash
- ❑ **Anticavity:** Floride rinse



Optimal Mouthwash Routine



Brush

Use a soft-bristled toothbrush and fluoride toothpaste.



Floss

Clean between teeth with floss or floss picks.



Mouthwash

Wait 30 minutes after fluoride toothpaste, or use immediately after flossing.



Swish & Spit

Rinse your mouth for 30 seconds, then spit out the mouthwash. Do not swallow or rinse with water afterward.



Consult with your dentist for personalized advice.

THROAT PAINTS



ADPL



Mandl's Paint
B.P.C '68

→

**used as throat paint for
the treatment of
pharyngitis, laryngitis,
tonsillitis and sore throat.**

DOUCHES



EAR DROPS



NASAL DROPS



EYE DROPS



ENEMAS





Assessment

- **Which of the following** is an example of a solid dosage form?
a) Syrup b) Tablet c) Ointment d) Injection
- **What is the main purpose** of coating a tablet?
a) To increase cost b) To protect from moisture and gastric juice
c) To change color d) To increase hardness
- **Which dosage form** is designed for **local application to the skin**?
a) Capsule b) Ointment c) Elixir d) Suppository
- **Modified release dosage forms** are mainly used to:
a) Deliver the drug rapidly
b) Control the rate and duration of drug release
c) Increase toxicity d) Improve taste
- **Bioavailability** of a drug can be improved by:
a) Poor formulation design b) Use of gastro-retentive dosage forms
c) Incomplete dissolution d) Light exposure

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THANK YOU