

Recent Advances in Drug Delivery

Rajesh V

Dept of Pharmacy Practice

Manipal College of Pharmaceutical Sciences

Highlights

- Introduction
- Conventional drug delivery
- Recent advances in drug delivery

Introduction

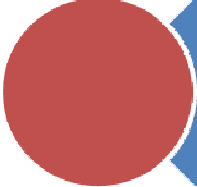


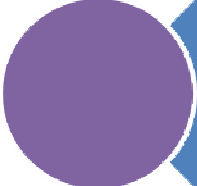


- Dose
- Dosage
- Dosage form
 - Conventional
 - Newer drug delivery systems (NDDS)

Conventional-Oral

Solid	Liquid
Tablet	Solution
Capsules	Mixtures
Granules	Suspension
Powder	Linctus
	Elixir
	Pediatric Drops

Conventional-Parenteral

-  Intravenous
-  Intramuscular
-  Subcutaneous
-  Infusions

Conventional - Topical

Semi Solid

- Creams
- Ointments
- Pastes
- Gels

Liquid

- Lotion
- Liniment
- Mouthwash

Dusting Powders

Conventional

Rectal	Drops
Suppositories	Nasal
Pessaries	Eye
Enemas	Ear

What's next ??..

Advances in Oral Route

Enteric coated

Sustained release

Controlled release

Immediate release

Extended release

Microspheres

Spansules

Floating drug delivery

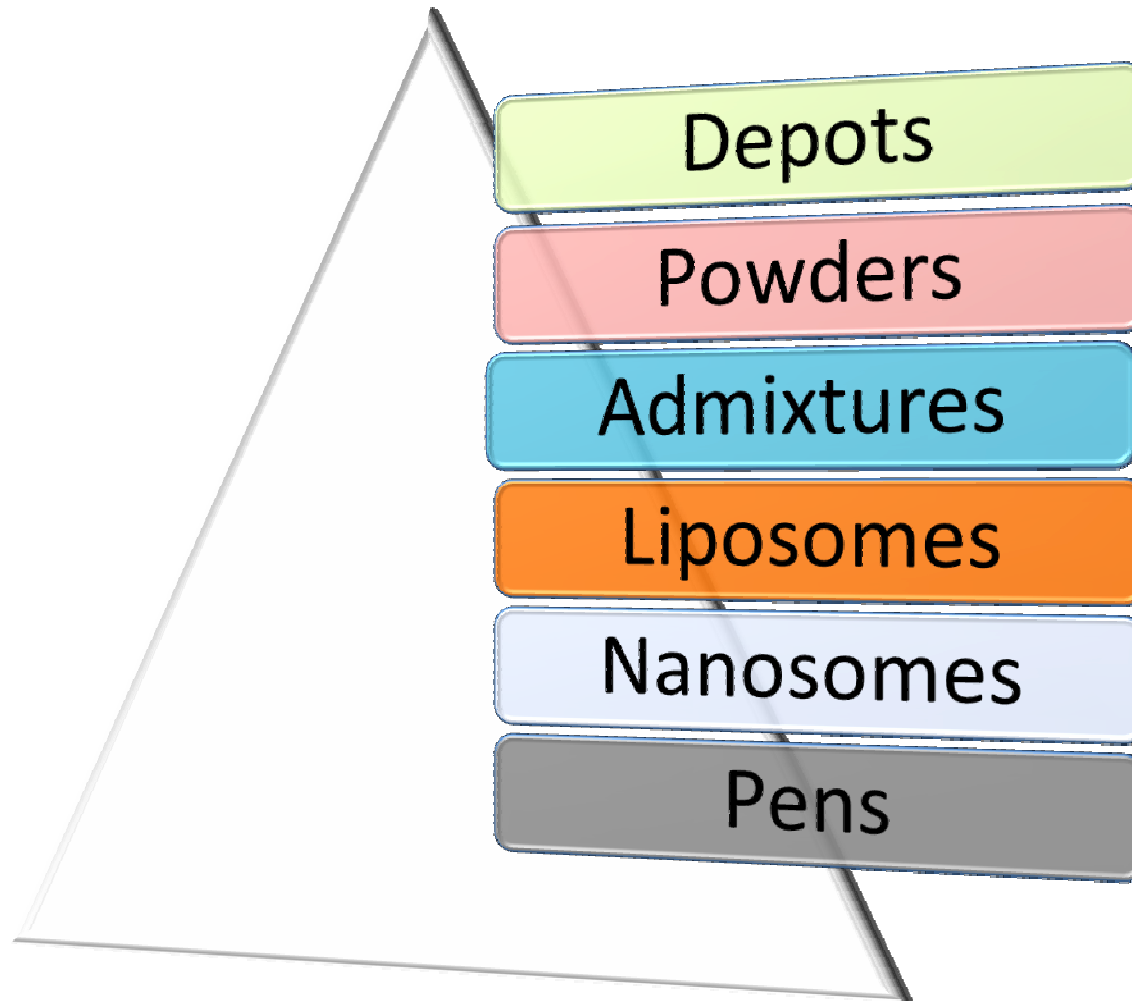
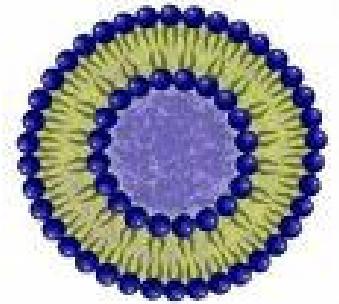
Target drug delivery- Lungs

Target drug delivery - Colon

Target drug delivery -Rectal

Muco-adhesive

Advances in Parenteral Route



Advances in Nasal Route

Nebulisers

Sprays

Implants

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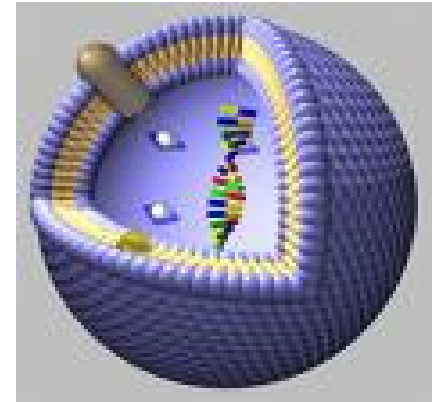
Advances in Topical Route



Implants

Transdermal

- Sonophoretic
- Iontophoretic
- Crystal embedded



Thank you 

