



SNS COLLEGE OF NURSING, COIMBATORE- 35



Department : Department of Nursing

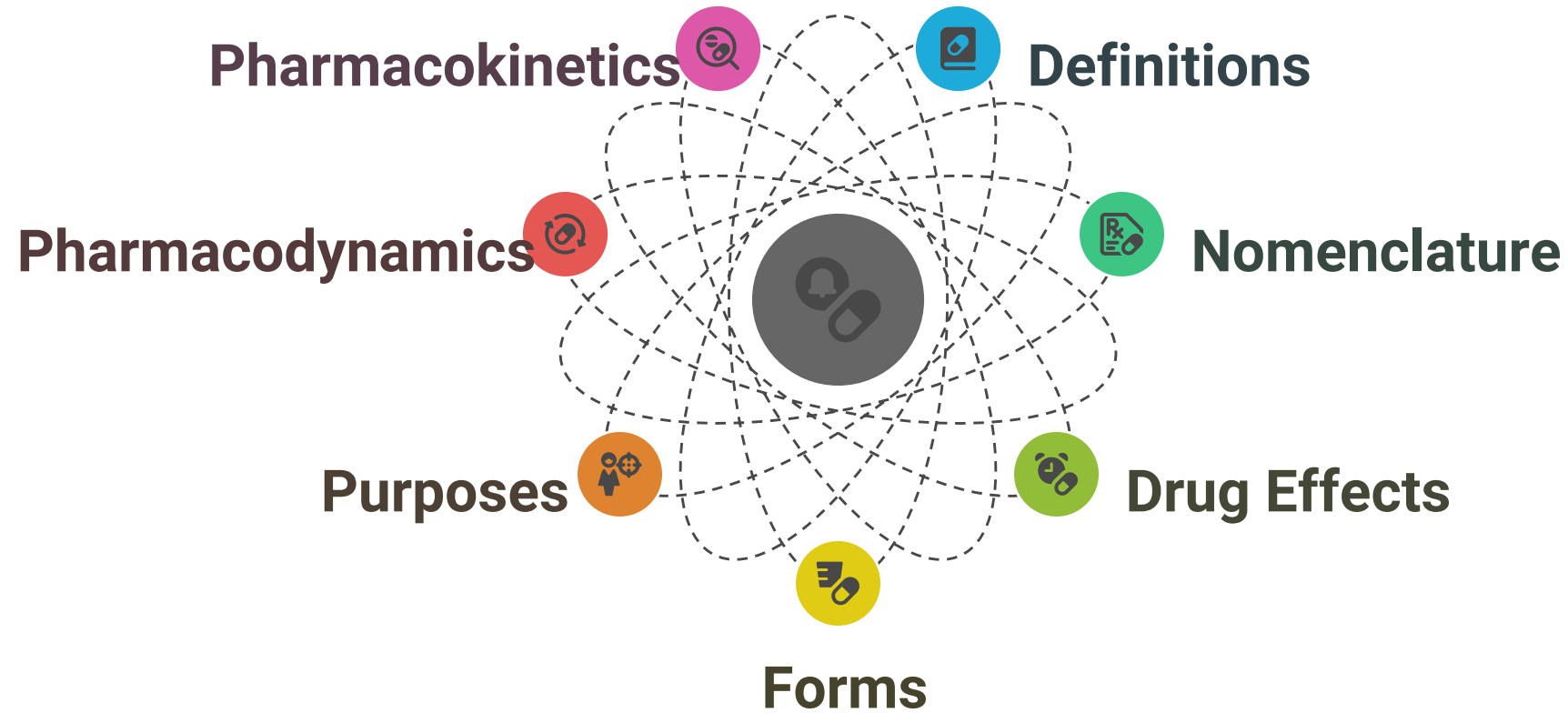
Course Name : B. Sc. (Nursing) I Year II Semester

Subject : Nursing Foundation- II

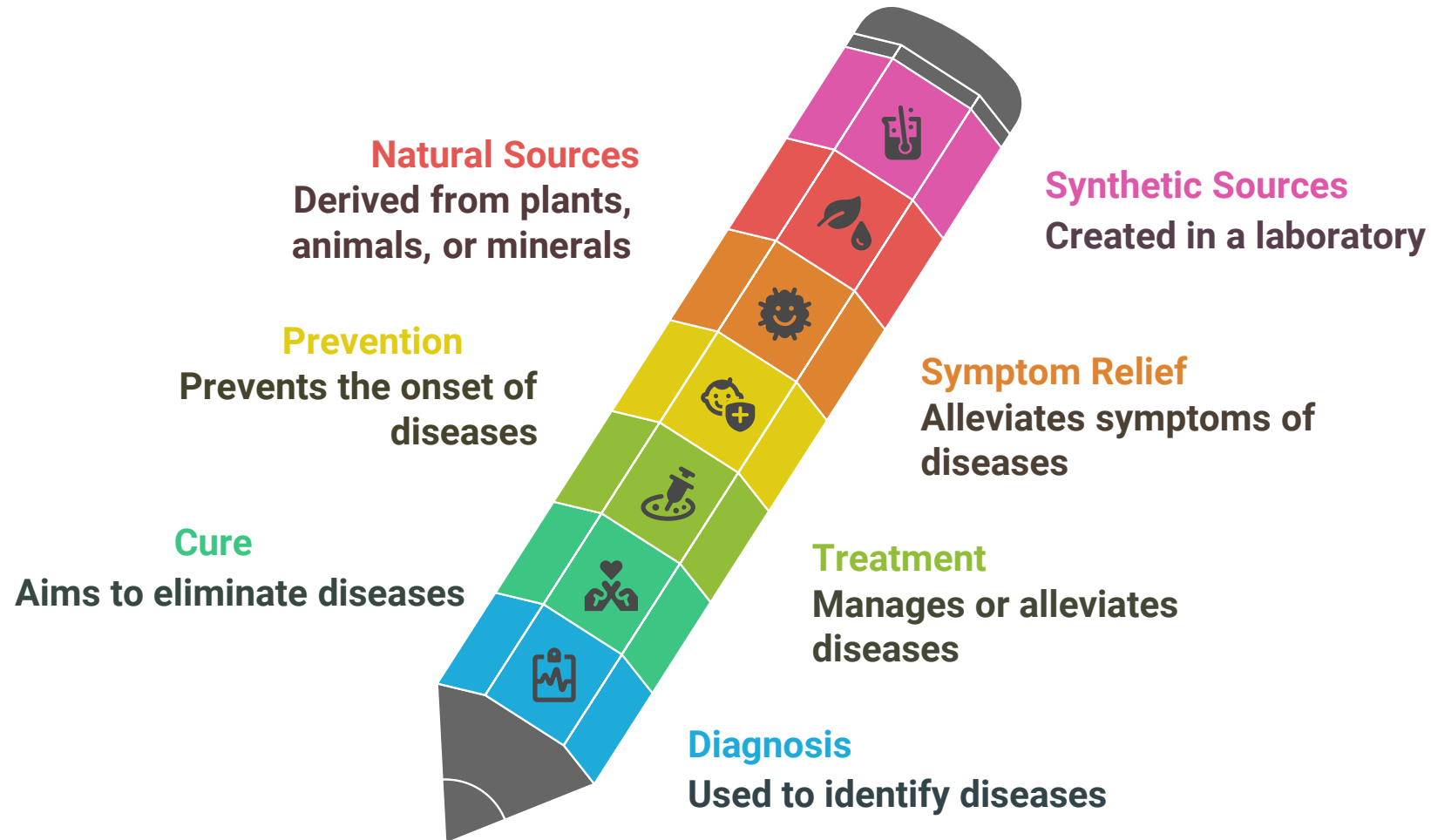
Unit : IX

**Topic : Administration of Medications-
Introduction**

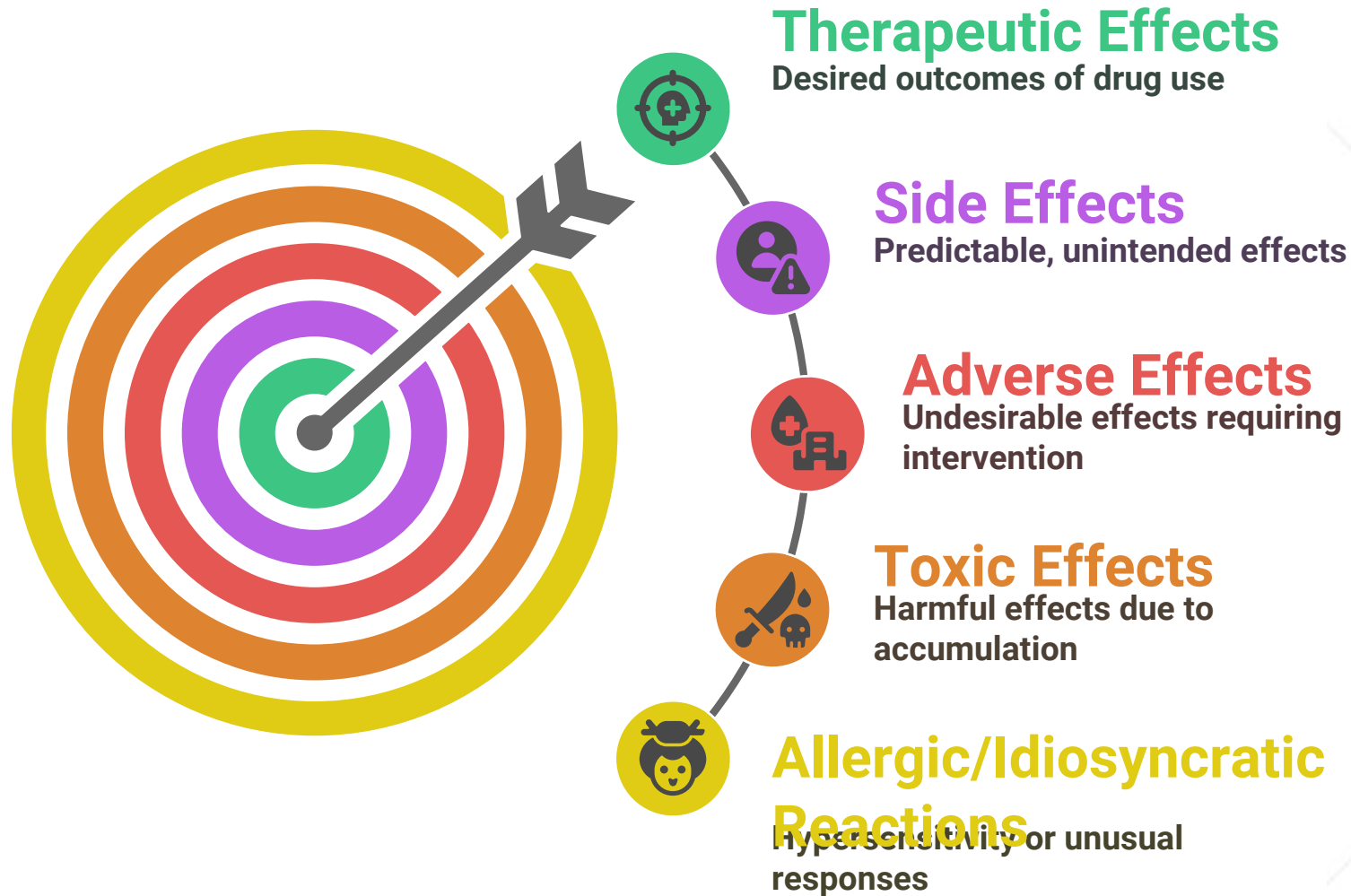
Introduction



Definition of Medication



Drug Effects Hierarchy



Forms of Drugs/ Medications



Oral Medications

Tablets, capsules, and liquids are ingested. They offer systemic effects.



Topical Medications

Creams, ointments, and patches are applied to the skin. They provide localized treatment.



Inhaled Medications

Aerosols and powders are inhaled into the lungs. They deliver drugs directly.



Injectable Medications

Solutions are injected intravenously or intramuscularly. They ensure rapid absorption.



Suppositories

Inserted into the rectum or vagina. They melt and release the medication.



Role of Medications in Healthcare/Purposes



Mechanisms of Drug Action

Cell Membrane Interactions
Drugs affect membrane permeability



Pharmacodynamics
Study of drug effects on the body



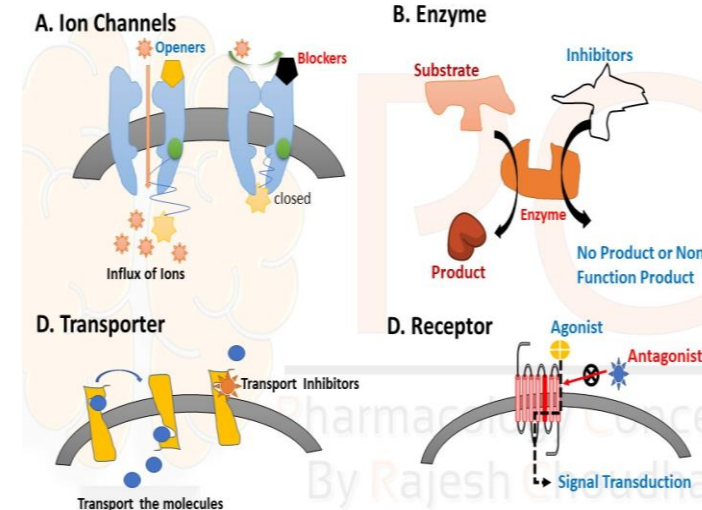
Receptor Interactions

Drugs bind to receptors, triggering effects

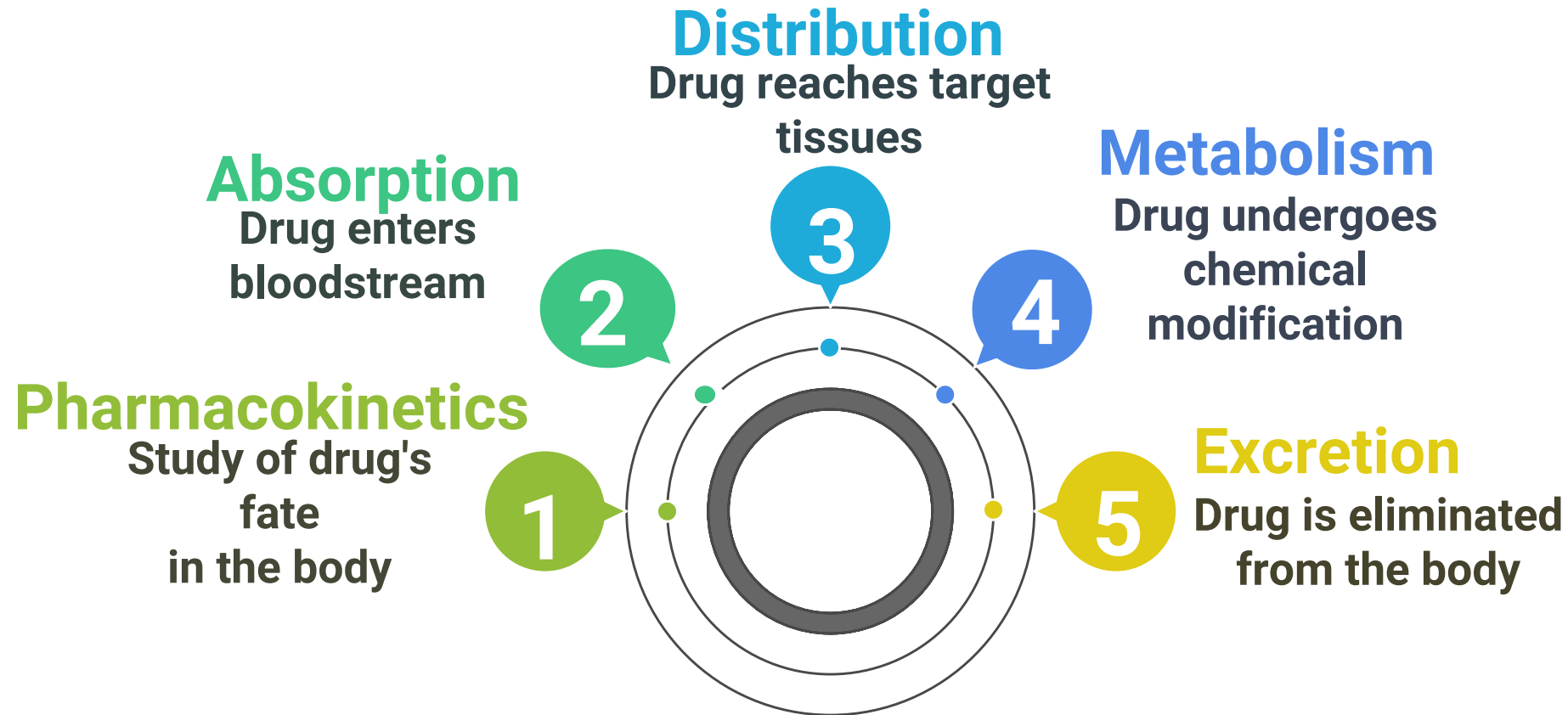


Enzyme Interactions

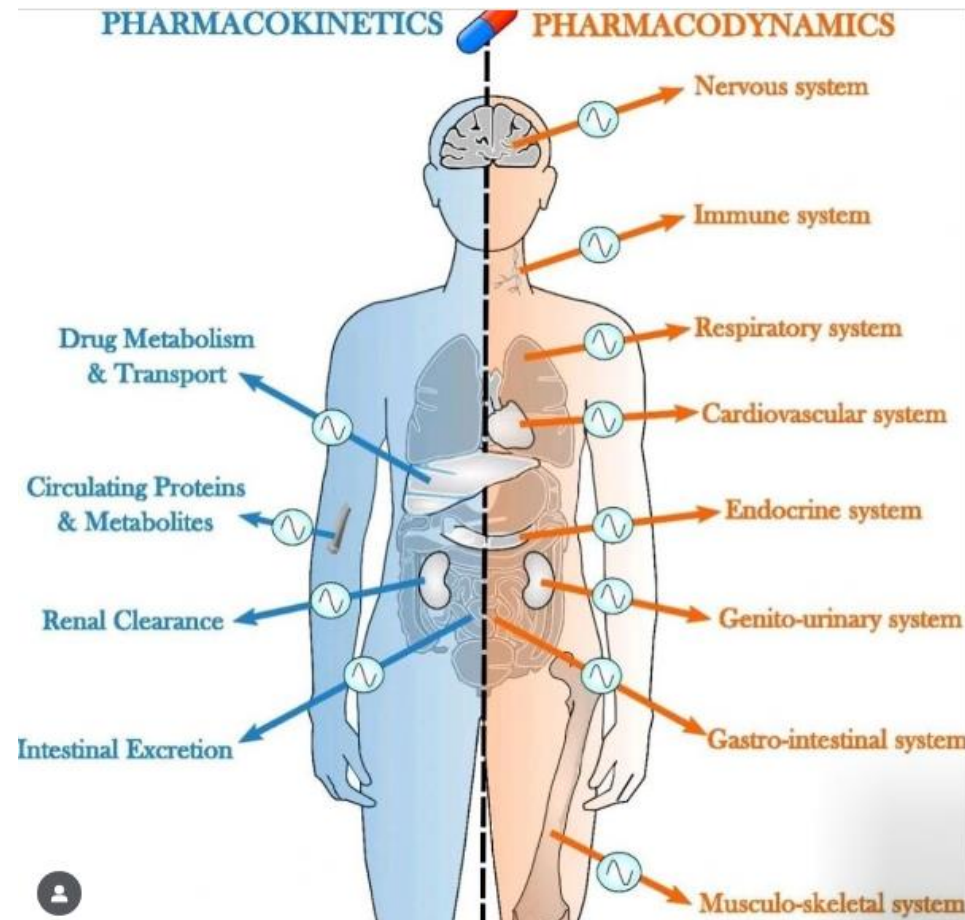
Drugs alter enzyme activity



Pharmacokinetics Processes



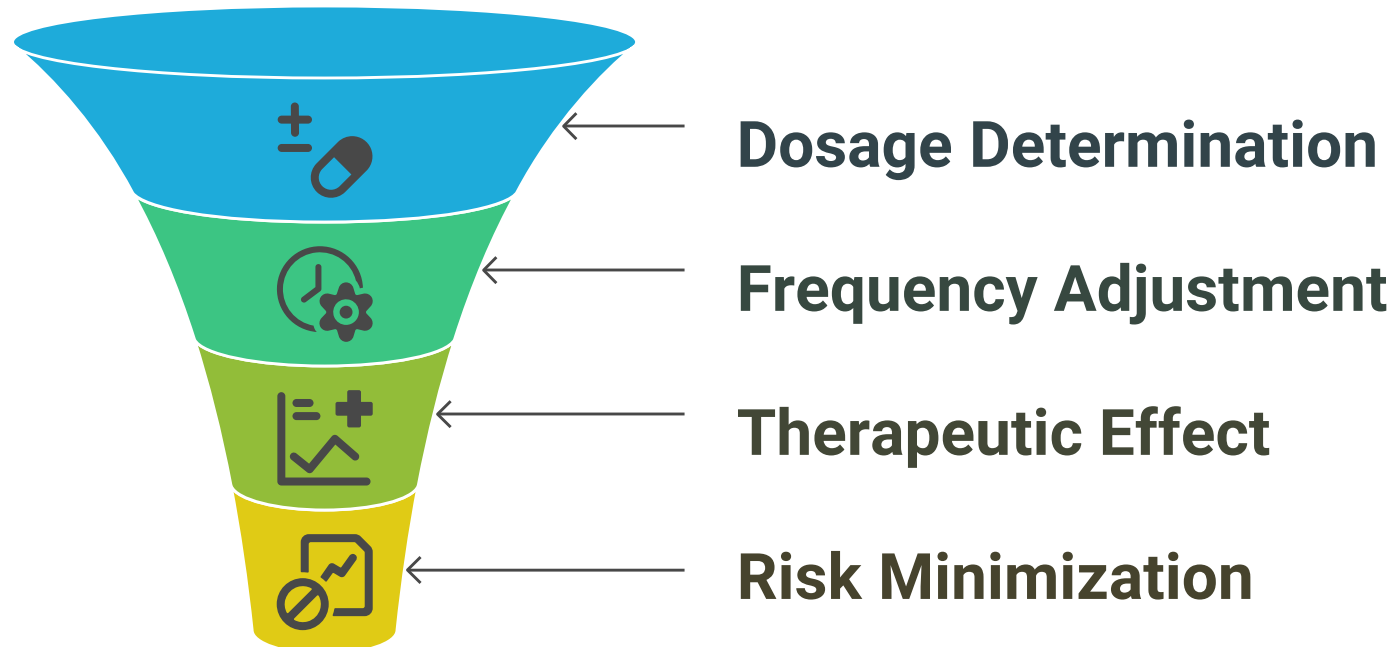
Let's get deep understanding on:



To Conclude:

Optimizing Drug Administration

Pharmacokinetic Processes



**Optimized Drug
Administration**



University Question Paper – Frequently Asked Questions








5 Minutes Assessment :

- **1.What is the correct definition of a medication?**
 - A. A chemical that only causes side effects
 - B. A substance used to diagnose, treat, or prevent disease
 - C. A substance used only in surgeries
 - D. A fluid given to maintain hydration
- **2. Which of the following represents the correct order of drug nomenclature?**
 - A. Trade name → Chemical name → Generic name
 - B. Generic name → Trade name → Chemical name
 - C. Chemical name → Generic name → Trade name
 - D. Brand name → Trade name → Chemical name

- **3. Which of the following is an example of a systemic effect of a drug?**
 - A. Local skin irritation
 - B. Eye redness from eye drops
 - C. Sedation after oral antihistamines
 - D. Pain at injection site
- **4. Which of the following is a solid form of medication?**
 - A. Syrup
 - B. Capsule
 - C. Lotion
 - D. Elixir

- **5. What is pharmacokinetics concerned with?**
 - A. The drug's effect on the body
 - B. The disease process in the body
 - C. The body's effect on the drug
 - D. The nursing diagnosis of a patient

Answers

-  **Correct Answer: B**
-  **Correct Answer: C**
-  **Correct Answer: C**
-  **Correct Answer: B**
-  **Correct Answer: C**

References

- Brown, S. M., & Mulholland, J. L. (2022). Drug calculations: Ratio and proportion problems for clinical practice (11th ed.). Elsevier.
- Lilley, L. L., Collins, S. R., & Snyder, J. S. (2023). Pharmacology and the nursing process (10th ed.). Elsevier.
- Lynn, P. (2022). Taylor's clinical nursing skills: A nursing process approach (6th ed.). Wolters Kluwer.
- Perry, A. G., Potter, P. A., Ostendorf, W. R., & Laplante, N. (Eds.). (2022). Clinical nursing skills and techniques (10th ed.). Elsevier.
- Vallerand, A. H., & Sanoski, C. A. (2024). Davis's drug guide for nurses (18th ed.). F.A. Davis

Thank you !!!

