

Pharmacology: Ch. 4-6

Evolve Pharmacology Online Instructions

1. Go to My Evolve and select Pharmacology Online

- Under Course Content, Select Basic Principles of Pharmacology and Complete the following assignments – bulleted points only:

o Self-Study Modules: Pharmacokinetics 1-5

1. Absorption

- Factors affecting Drug Absorption, Learning Activity, Bioavailability, Learning Activity
- Routes of Administration: Transdermal + all subsets
- Routes of Administration: Oral + all subsets
- **Study Module Absorption Quiz**

2. Distribution

- Distribution of Drugs in the Body
- Drug Distribution + all subsets

3. Metabolism

- Sites of Drug Metabolism + all subsets

4. Excretion

- Routes of Excretion
- Renal Excretion and Types
- Factors That Can Alter Renal Drug Excretion

5. Time Course of Drug Responses

- The Concentration of Free Drug Needed in Plasma to Cause a Therapeutic Effect + all subsets
- Characteristics of Plasma Drug Concentration Curves + all subsets
- **Study Module Time Course of Drug Responses Quiz**

o Self-Study Modules: Pharmacodynamics 1 & 3

1. Drug-Response Relationships and Receptors

- Introduction to Pharmacodynamics
- Drug Dose Relationship + subsets

3. Therapeutic Index

- Interpatient Variability in Drug Responses
- How Interpatient Variability is Measured:
 - The ED₅₀
 - The LD₅₀
- The Therapeutic Index
- Learning Activity
- Therapeutic Index vs Therapeutic Range
- Nursing Assessment: The Most Important Aspect of Pharmacology

• Self-Study Module: Drug Interactions 1

- Drug to Drug Interactions
- Outcomes from Drug-Drug Interactions + all subsets

• Self-Study Module: Drug Interactions 2: Drug-Food and Drug-Nutrient

- Drug-Food and Drug Nutrient Interactions
- Drug-Food Interactions
 - Effect of Food on Drug Absorption
 - Effect of Food on Drug Absorption: Gastric Emptying Time etc.
 - Effect of Food on Drug Absorption: Constituents in Food
 - Effect of Food on Drug Toxicity
 - Effect of Food on Drug Action
- Drug-Nutrient Interactions
 - Overview
 - Effect of Drugs on Appetite