

Study Guide Exam 1 Advanced Pharmacology

- Understand pharmacokinetics and pharmacodynamics
 - Pharmacokinetics: How the drug moves through the body once its administered
 - Pharmacodynamics: The effect of the drug on the body
 - Therapeutic Index = $\frac{\text{Median Toxic Dose}}{\text{Median Effective Dose}}$
$$\text{TI} = \frac{\text{LD}_{50}}{\text{ED}_{50}}$$
 - The ↑ the TI, the safer the drug
- Be aware of how medications are absorbed and what are factors or variables in drug absorption
 - Absorption
 - How much of the drug and how fast it leaves the site of administration
 - Bioavailability: how much of the drug actually gets to the site of action
 - (Described as *F* fraction making it)
 - Bioequivalences: Where 2 drugs have the same active ingredients and are identical in strength or concentration dosage form, route of adm., and *F*.
 - Drug characteristics:
 - Dosage formulation (influences the rate of dissolution)
 - Drug concentration
 - Drug molecular weight
 - Liophilicity of drug formulations
 - Ionization of the drug (acidic vs alkaloid drugs)
 - Weak acids get trapped in basic environments
 $\text{R}-\text{COOH} \leftrightarrow \text{R}-\text{COO}^- + \text{H}^+$
Ex. Aspirin, NSAIDS
 - Weak bases get trapped in acidic environments
 $\text{R}-\text{NH}_3^+ \leftrightarrow \text{R}-\text{NH}_2 + \text{H}^+$
Ex. Lactulose for hepatic encephalopathy
 - Dependence of transporters (not all meds require this)
- Distribution: to understand where the drug can be measured, one needs to have an understanding of the various "fluid compartments" in the body that the drug can reside
 - Total body water (60%)
 - Intracellular (40%)
(mainly K^+ & Mg^{2+})
 - Extracellular (20%)
(mainly Na^+ , Cl^- , HCO_3^-)
 - Plasma (5%)
(mainly proteins)
 - Interstitial (1.5%)
(no proteins)

- Most labs report on protein-bound and free fraction (α) drug

Advanced Study Guide

**Wade Edwards, Tom Lancaster, Eric
Quinn, Jason Rohm, Bryant G. Tow**

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