

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 = $\frac{\text{Median Toxic Dose}}{\text{Median Effective Dose}}$ $\frac{TD_{50}}{ED_{50}}$
 - 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)
 - **Bioequivalence**: 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
 - Lipophilicity of drug formulations
 - Ionization of the drug (acidic vs alkaloid drugs)
 - Weak acids get trapped in basic environments
 $R-COOH \leftrightarrow R-COO^- + H^+$
 Ex. Aspirin, NSAIDs
 - Weak bases get trapped in acidic environments
 $R-NH_2 + H^+ \leftrightarrow R-NH_3^+$
 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



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

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