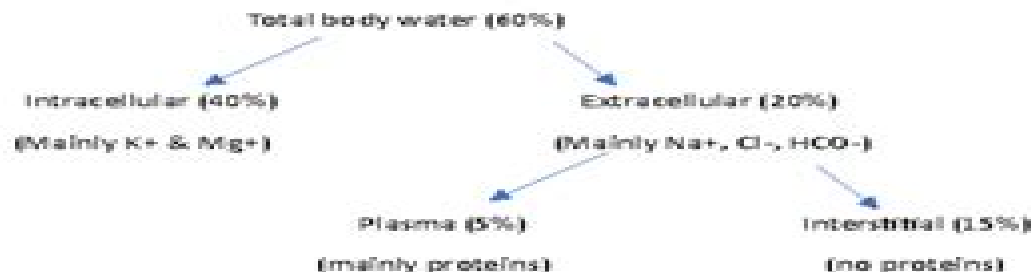


Study Guide Exam 1 Advanced Pharmacology

- 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 = $\frac{\text{Median Toxic Dose}}{\text{Median Effective Dose}}$ $TI = \frac{LD50}{ED50}$
 - 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
 $R-NH_3^+ \leftrightarrow R-NH_2 + H^+$
 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



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

Study Guides For Advanced Pharmacology

Huangqi Zhang



Study Guides For Advanced Pharmacology:

Study Guides For Advanced Pharmacology Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Study Guides For Advanced Pharmacology**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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