Clinical Pharmacology Animations: Online Review

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Clinical Pharmacology Animations: Online Review provides an animated and interactive approach to understanding the fundamental topics of clinical pharmacology. This web-based tutorial will help health professions students gain an understanding of the key concepts of pharmacology and provide the needed foundation for increased mastery, professionalism, and confidence as they begin their career. This online review will clarify complex concepts and provide reinforcement of key terms and processes.

This comprehensive program includes over 130 animations to review 29 different topics. After completing the online review of topics, students may take a Final Exam to test their overall comprehension and retention of basic pharmacology.

Visit: http://go.jblearning.com/PharmacologyAnimations to view sample animations and bundle options.


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ONLINE REVIEW TOPICS INCLUDE:

Pharmacokinetics
  - Tubular Reabsorption
  - Tubular Secretion
  - Pharmacodynamics
    - Clinical Effects
    - Mechanism of Action
    - Nature of Receptors
    - Agonist
    - Antagonist
  - Drug-receptor Interactions
    - Selectivity
    - Affinity
    - Coupling Efficiency
    - Number of Receptors
  - Types of Agonists
  - Types of Antagonists
  - Therapeutic Drug Levels
    - Measuring Pharmacokinetics
    - Plasma-drug-concentration—Time curve
    - Bioavailability
    - Graphing Bioavailability
    - Calculating Bioavailability
    - Bioequivalence
    - Volume of Distribution
    - Clearance
    - Half Life

Distribution
  - How Drugs are Distributed
  - Distribution Equilibrium
  - Capillary Structure
  - Factors Affecting Distribution
  - Volume of Blood Flow
  - Plasma Protein Binding
  - Blood-brain Barrier
  - Tissue Binding

Metabolism
  - Sites of Metabolism
  - Metabolite Activity
  - Role of Enzymes
  - Cytochrome P-450 Enzyme System
    - Induction
    - Inhibition

Excretion
  - Sites of Excretion
  - Kidneys
  - Liver
  - Lungs
  - Breast
  - Renal Excretion
  - Glomerular Filtration

Classifying Adverse Effects
  - Severity
  - Onset
  - Dose dependency
  - Reversibility
  - Local vs. systematic effects

Drug Interaction
  - Pharmacokinetic Drug Interaction
    - Altering Drug Absorption
    - Absorption
    - Chelation
    - Delay of gastric emptying
    - Alteration of pH
    - Inhibition of reverse transport
    - Altered drug distribution
    - Altered drug metabolism
    - Induction
    - Inhibition
    - Altered drug excretion
    - Pharmacodynamic Drug Interaction
      - Additive drug interactions
      - Synergistic drug interactions
      - Antagonistic drug interactions

Drug Delivery
  - Route of Drug Administration
    - Enteral administration
    - Parenteral administration
    - Topical administration
    - Intranasal administration
    - Inhalation
    - Transdermal
  - Drug Form
    - Oral drug forms
    - Parenteral drug forms
    - Topical drug forms
    - Other drug forms
  - Drug Formulations
  - Drug dosing
  - Dosing units
  - Dosing abbreviations
  - Selecting the dose/dosage

Assessment
  - Final Exam