

## Exam 2 – Pathophysiology

### Module 3 – Disorders of fluids, electrolytes, and acid-base balances

- Fluids and electrolytes are present in body cells in the tissue spaces between the cells
  - Body fluids transfers gases, nutrients and waste to help generate the electrical activity needed to power body functions
- ❖ **Body fluid distribution:** consists of the intracellular and extracellular compartments
  - **Intracellular compartment contains**
    - Inside the cell
    - 2/3 of the body water in healthy adults
  - **Extracellular compartment contains**
    - Outside the cell
    - Interstitial spaces
      - Between the cells
    - Vascular compartment plasma/blood
    - Transcellular compartment
  - Body fluids ex: lymph, synovial, intestinal, CSF, sweat, urine, pleural, peritoneal, pericardial, and intraocular fluids
- ❖ **Diffusion:** movement of volume moving from high concentration to low concentration
  - Osmotic pressure
- ❖ **Osmosis:** movement of water from a lower concentration into a higher concentration
  - Molecules of a solvent tend to pass through a semipermeable membrane from a less concentrated solution into a more concentrated one, thus equalizing the concentrations on each side of the membrane
- ❖ **Water/fluid movement:** aquaporins are proteins embedded in the cell membrane that regulate the flow of water into/out of the cell
  - **Isotonic solutions**
    - Water moves equally between the cells and the cells stay the same
  - **Hypertonic solutions**
    - Water moves out of the cell, which causes the cell to shrivel
  - **Hypotonic solutions**
    - Water moves into cell that then causes the cell to swell and burst
- ❖ **Capillary/interstitial fluid exchange:** pressure in the capillary that pulled/kept fluid in (capillary COP) and pressure pushing fluid out of the tissue (tissue hydrostatic pressure) would result in more fluid in the capillary
  - Hydrostatic pressure can be thought of as “pushing pressure,” and osmotic pressure can be thought of as “pulling” or sucking pressure
- ❖ **Edema:** accumulation of fluid within the interstitial spaces; palpable swelling produced by an increase in interstitial fluid volume
  - **increase in capillary hydrostatic pressure**
  - decrease in plasma oncotic pressure/colloidal osmotic pressure

# Essentials Of Pathophysiology Study Guide

**Kathleen Schmidt Prezbindowski**



## **Essentials Of Pathophysiology Study Guide:**

*Study Guide to Accompany Porth's Essentials of Pathophysiology* Kathleen Schmidt Prezbindowski, 2006-04 With this outstanding learning tool you will review all the key material from Porth's Essentials of Pathophysiology 2nd Edition in one concise resource This work helps you turn confusion into clarity detailed review questions address pathophysiologic concepts for all body systems A range of learning tools tests your knowledge with a variety of question styles Questions and exercises keyed to the textbook reinforce your understanding Answers with rationales explain the how and why behind correct responses The expert coverage you will find in this Study Guide will help you meet the challenges of important exams and clinical practice with confidence     *Essential Pathophysiology For Nursing And Healthcare Students* Richards,

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teaching points and facilitate easy review of chapter content To consolidate the principles outlined in each chapter review questions with full text explanations are provided at the end of each chapter All these elements help reinforce the most important messages for the reader

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Workbook for Essentials of Human Diseases and Conditions - E-Book Margaret Schell Frazier, Jeanette Drzymkowski, 2013-06-21 Reinforce your understanding of key content in Essentials of Human Diseases and Conditions 5th Edition with chapter by chapter review and practice This companion Workbook challenges you to recall key terminology and definitions identify important anatomic structures apply textbook concepts to realistic patient scenarios and prepare for success on your certification exam with a wide variety of review questions and critical thinking exercises Word definitions and glossary terms reinforce your understanding of key medical terminology Chapter specific fill in the blank and short answer questions test your retention of textbook content Labeling exercises challenge you to identify important

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