

## 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 Pathophysiology Study Guide

**Tommie Norris**



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## **Table of Contents Essentials Pathophysiology Study Guide**

1. Understanding the eBook Essentials Pathophysiology Study Guide
  - The Rise of Digital Reading Essentials Pathophysiology Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Essentials Pathophysiology Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Essentials Pathophysiology Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Essentials Pathophysiology Study Guide
  - Personalized Recommendations
  - Essentials Pathophysiology Study Guide User Reviews and Ratings
  - Essentials Pathophysiology Study Guide and Bestseller Lists

5. Accessing Essentials Pathophysiology Study Guide Free and Paid eBooks
  - Essentials Pathophysiology Study Guide Public Domain eBooks
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  - Essentials Pathophysiology Study Guide Budget-Friendly Options
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  - Essentials Pathophysiology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Essentials Pathophysiology Study Guide
  - Highlighting and Note-Taking Essentials Pathophysiology Study Guide
  - Interactive Elements Essentials Pathophysiology Study Guide
8. Staying Engaged with Essentials Pathophysiology Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Essentials Pathophysiology Study Guide
9. Balancing eBooks and Physical Books Essentials Pathophysiology Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Essentials Pathophysiology Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Essentials Pathophysiology Study Guide
  - Setting Reading Goals Essentials Pathophysiology Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Essentials Pathophysiology Study Guide
  - Fact-Checking eBook Content of Essentials Pathophysiology Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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