

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

SJ Ball



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Table of Contents Essentials Of Pathophysiology Study Guide

1. Understanding the eBook Essentials Of Pathophysiology Study Guide
 - The Rise of Digital Reading Essentials Of Pathophysiology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Essentials Of 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 Of Pathophysiology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Essentials Of Pathophysiology Study Guide
 - Personalized Recommendations
 - Essentials Of Pathophysiology Study Guide User Reviews and Ratings
 - Essentials Of Pathophysiology Study Guide and Bestseller Lists

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