



Fluid & Electrolytes

The Nursing Professor

Key Points

osmosis	movement of H ₂ O through semi-permeable membrane; moves from area of low to high concentration
solutes	move from areas of high to low concentration
pressures	Hydrostatic: PUSHES – force within a fluid compartment; *Blood pressure Oncotic: PULLS – exerted by colloids (proteins); proteins have pulling power and pull H ₂ O into vascular space
tonicity (of solutions)	Isotonic: balanced concentration (ex. 0.9% NS) Hypotonic: lower concentration of particles and is thus more dilute than body fluids; can cause cell to swell and potentially burst (ex. 0.45% NS) Hypertonic: higher concentration of particles; can pull water out of cells and cause them to shrink and atrophy; pulls fluids into the vascular space to be excreted (ex. 3% NS, D10W, D5 NS)
RAAS (renin-angiotensin-aldosterone system)	Body senses low blood volume or low Na ⁺ → renin secreted → angiotensin released in blood → angiotensin I converted to angiotensin II → widespread vasoconstriction → stimulates release of aldosterone → saves Na ⁺ → increases water reabsorption
aldosterone	saves sodium and thereby H ₂ O; secreted by adrenal cortex
CVP	indicator of fluid in the right atrium; Normal: 2 – 8 mmHg low = fluid volume deficit high = fluid volume excess
Pediatric Concerns	more vulnerable to fluid loss; greater metabolic turnover; immature thermoregulatory and homeostatic regulation; dependent on others
Geriatric Concerns	more susceptible to water loss → decreased blood flow; impaired ability to regulate temperature; decreased GFR; decreased thirst/ self-limiting of fluids



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Fluids Study Guide

KJ Lindholm-Leary



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Table of Contents Fluids Study Guide

1. Understanding the eBook Fluids Study Guide
 - The Rise of Digital Reading Fluids Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Fluids 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 Fluids Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fluids Study Guide
 - Personalized Recommendations
 - Fluids Study Guide User Reviews and Ratings
 - Fluids Study Guide and Bestseller Lists
5. Accessing Fluids Study Guide Free and Paid eBooks
 - Fluids Study Guide Public Domain eBooks
 - Fluids Study Guide eBook Subscription Services
 - Fluids Study Guide Budget-Friendly Options
6. Navigating Fluids Study Guide eBook Formats

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