



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

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Hochstein, Philip M. Gerhart**



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