

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

JG Myers



Essentials Of Pathophysiology Study Guide:

Essentials Of Pathophysiology Study Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Essentials Of Pathophysiology Study Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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