#### 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
  - o increase in capillary hydrostatic pressure
  - o decrease in plasma oncotic pressure/colloidal osmotic pressure

# **Essentials Of Pathophysiology Study Guide**

**Tommie L. Norris** 

## **Essentials Of Pathophysiology Study Guide:**

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