

Fluid & Electrolyte Basics IV

Fundamentals of Nursing

Factors that Influence Fluid Balance

- Muscle (more fluid)
- Body Fat (less fluid)
- Gender (men retain more fluid)
- Age

MUSCLE RETAINS MORE H₂O



Key Terms

Osmosis:

The movement of fluid from an area of **LOWER** concentration to an area of **HIGHER** concentration, leading to equalization.

Example: Large intestines that absorb high nutrients & balance fluids.

Diffusion:

The movement of solutes from an area of **GREATER** concentration to an area of **LESSER** concentration, leading to equalization.

Example: exchange of O₂ & CO₂ inside the lungs.

Filtration:

The movement of **BOTH** fluid & solutes from an area of **HIGH** hydrostatic pressure to an area of low pressure.

Example: Kidneys that filter the blood.

Osmolality:

The concentration of a solution.

Higher osmolality = Higher solutes (heavy)

Lower osmolality = Lower solutes (light & dilute)

Examples:

- **Isotonic** solutions: Equal osmolality 270 - 300 millimoles / kg (same as blood concentration)
- **Hypertonic** solutions: High osmolality (heavy & thick concentration) **OVER** 300 millimoles / kg
- **Hypotonic** solutions: Lower osmolality (lighter & dilute) **Less than** 300 millimoles / kg

Fluid Volume Overload - Overhydration

Clients puff up like a big water balloon manifesting as edema (the swelling of soft tissues from excess fluid).



Overhydration for Overload!



Other Names:

- Fluid Volume Excess
- **Hypervolemia**
- FVO (Fluid Volume Overload)

Edema:

The swelling of soft tissues as a result of excess fluid accumulation

Grading the Pitting Edema

Edema makes the skin look like a memory foam mattress, ranging from 0+ to 4+ pitting edema.

0+	No pitting edema
1+	2 mm or less Mild (immediate rebound)
2+	3-4 mm Moderate (15 seconds rebound)
3+	5-6 mm Moderately Severe (30 seconds to rebound)
4+	8 mm or deeper SEVERE! (1-2 minutes to rebound)

4 Main Causes of Edema

1. Increased hydrostatic pressure **TEST TSP**

- Increased volume
- Manifestations:
 - High blood pressure (BP)
 - Pitting edema
- **Examples:**
 - Renal Failure
 - Heart Failure

Memory Trick:

- **H₂O** - Heart failure
- **H₂O** - heavy fluid

2. Decreased colloid osmotic pressure

- **Low Albumin** (low plasma proteins)

Memory Trick:

- **A** - Albumin
- **A** - Attracts fluid

Examples:

- Cirrhosis (liver disease)
- Starvation

3. Increased capillary permeability

Examples:

- Bacteria (infection)
- Burns

4. Obstruction of the lymphatic system

- Cancer (tumor blockage)
- Infection (big lymph nodes)

HIGH

PISTING EDMA

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stage 3 the transformer is shunted completely by energizing main contactor km3 so that the motor is directly connected to the supply and km2 is opened advantages of auto transformer starter 1 flexibility different voltage taps of auto transformer allows adjustments for a range of starting current and torque requirements

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some disadvantages autotransformer are given as follows 1 there is a direct connection between the primary winding and the secondary therefore the output is no longer directly isolated from the input 2 an autotransformer is not safe for stepping down a high voltage to a low voltage in case an open circuit develops in a common part of

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august 18 2022 by wiring digital what is an auto transformer starter wiring diagram an auto transformer starter wiring diagram is a set of instructions used to show how to connect the various parts of an electric motor or other power source this diagram provides all the information needed to install maintain and troubleshoot the motor