
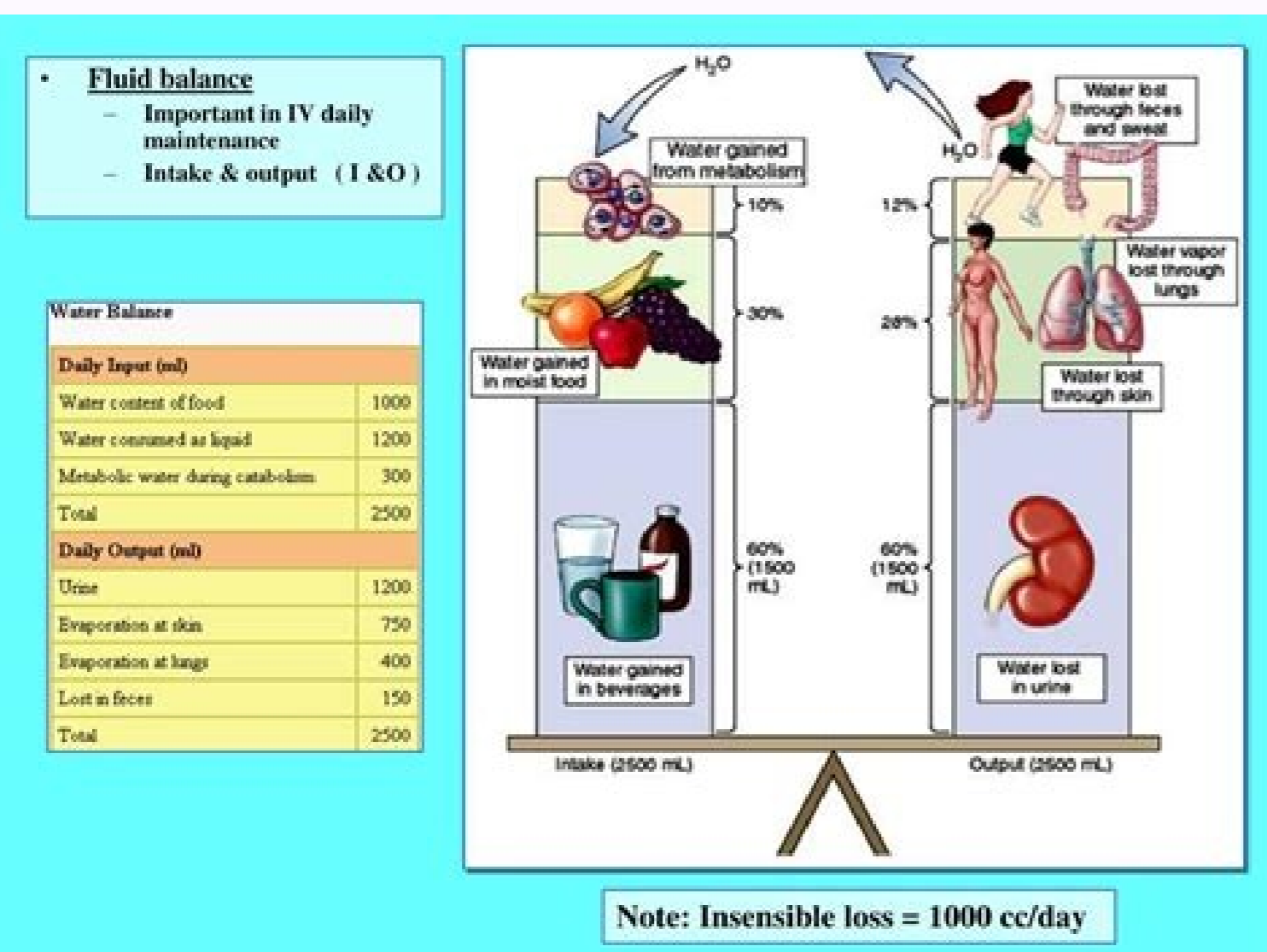
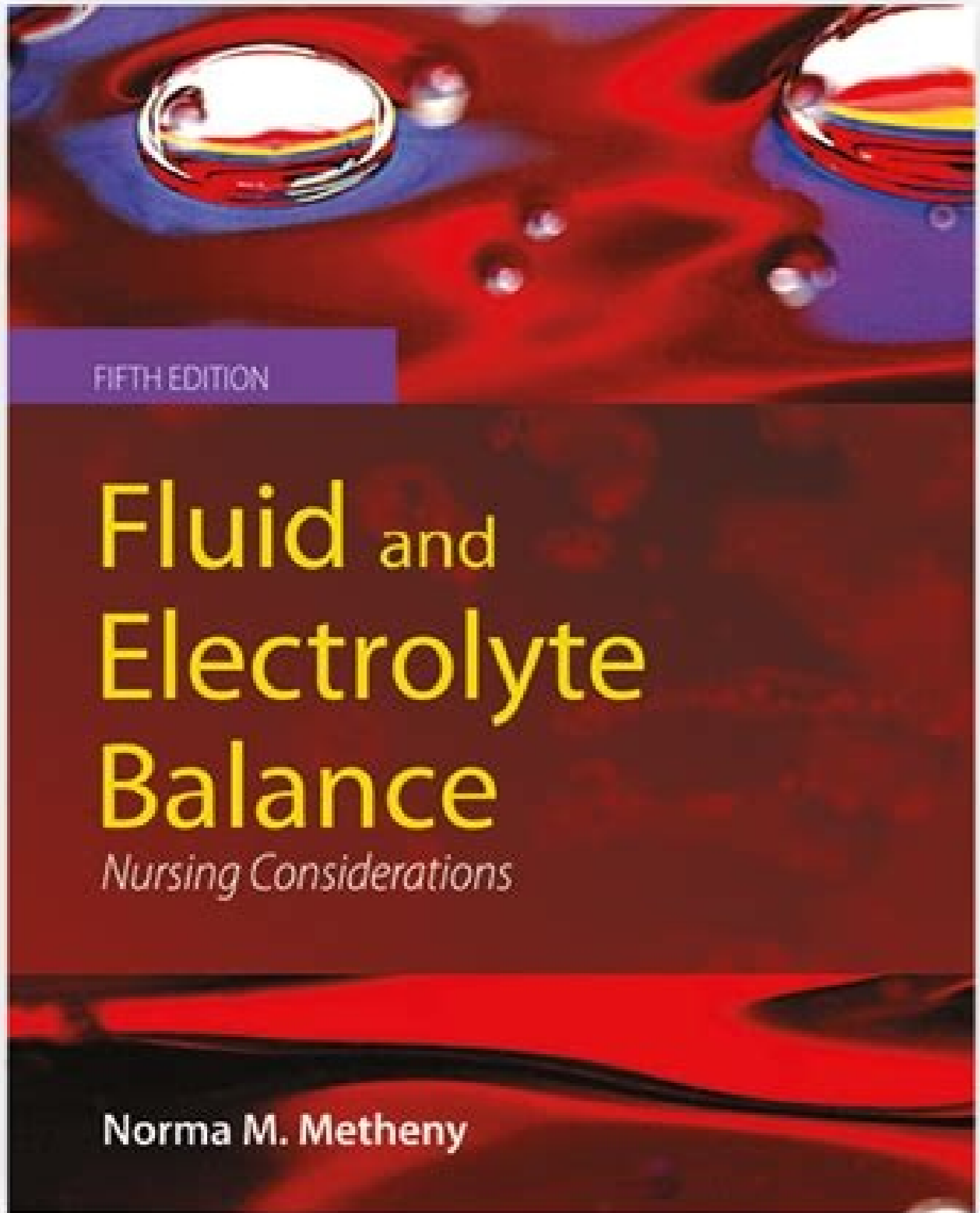
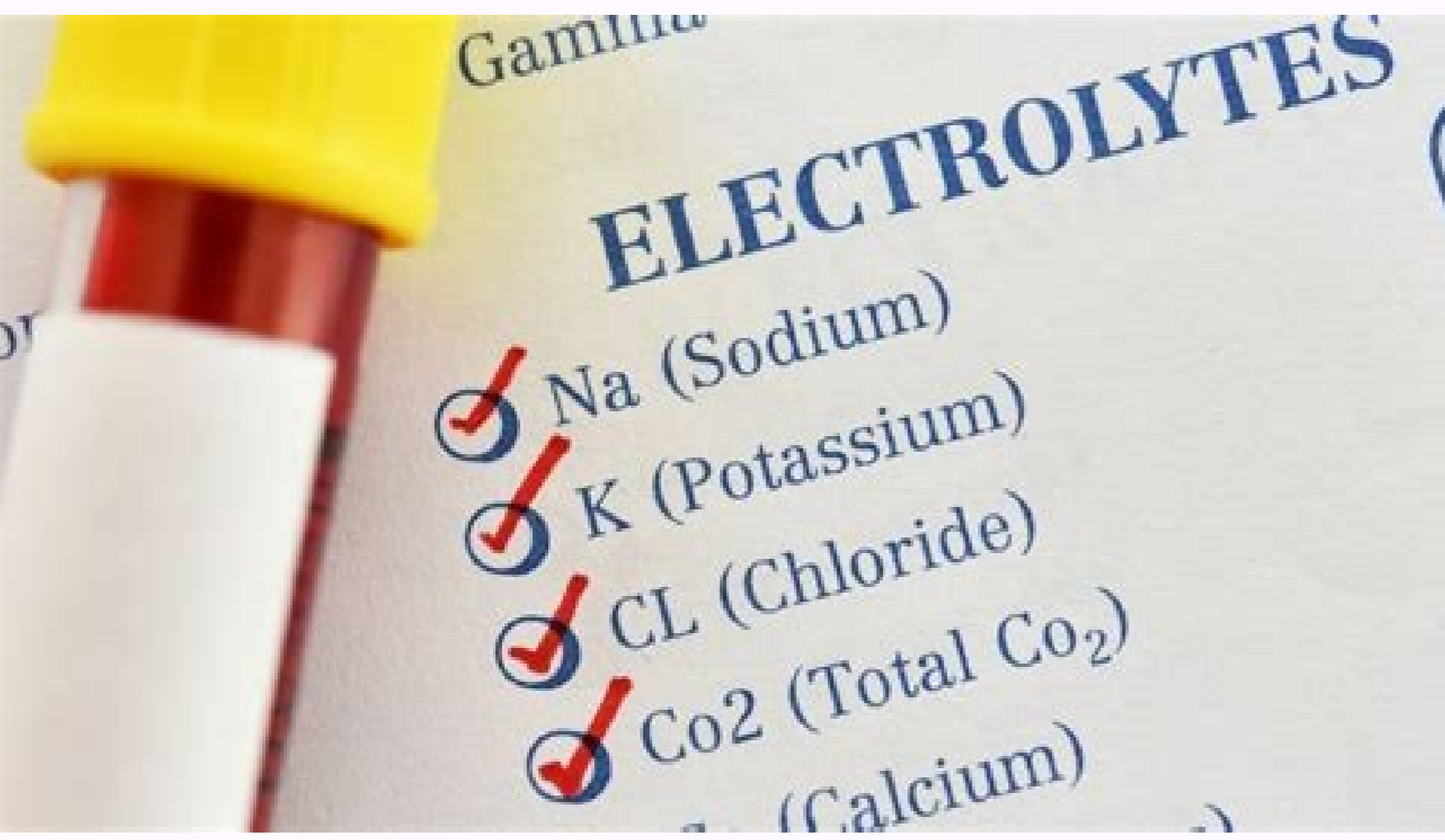


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ELECTROLYTE IMBALANCES with Relationships

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Includes 6 Electrolytes!

Electrolyte Relationships

Calcium

- Assists in formation of bone contraction, normal function enzymes, blood clotting or rhythm

Hypocalcemia <

Signs and Symptoms

- Tingling fingers, face or limbs
- Muscle spasms
- Arrhythmias
- Tetany
- Muscle cramps
- Laryngospasms

Causes

- Decreased Mg levels
- Insufficient Ca or V
- Increased serum pH
- Hypoparathyroidism
- Pancreatitis
- Vitru disease

Potassium

- Major Intracellular Fluid cation

Sodium

- Major Extracellular Fluid (ECF) cation.
- Assists in acid-base balance and fluid balance.
- Helps regulate nerve function and muscle contraction
- Helps maintain stable blood pressure levels.
- Inverse to Potassium
- Normal: 135-145 mEq/L

Hyponatremia <135 mEq/L

Signs and Symptoms

- Fatigue
- Nausea/vomiting
- Confusion
- Seizures
- Weakness
- Muscle cramps
- Tachycardia

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Low

Causes

- Decreased Na+ excretion

Hypernatremia >145 mEq/L

Signs and Symptoms

- Thirst
- Agitation
- Confusion
- Irritability
- Restlessness
- HTN and fluid retention
- Decreased urine output

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High

Causes

- Excess oral/IV Na+ intake

5.0 mEq/L

↑

High

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