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17/mhs06/047

Bch 204

MLS 300L

1. POTASSIUM

Toxicity: Hyperkalaemia-It is a clinical condition associated with elevated plasma potassium above the normal range (3.5 – 5 mEq/L).

- Chronic renal insufficiency.
- Decreased output of urine.
- Anoxia and acidosis.

Hypokalaemia

- Muscle weakness
- Increase in blood pressure
- Irregular heartbeats.

2. CHLORIDE

Normal range: 100-108 mEq/L

Hyperchloremia

- Metabolic acidosis
- Cushing's disease.

Hypochloraemia

- Metabolic alkalosis
- Addison's disease
- Excessive sweating

3. MAGNESIUM

Normal range : 1.4-2.1mEq/L

Hypermagnesemia

Toxicity

- Anxiety
- Muscular problems
- Arrhythmia in extreme cases.

Hypomagnesemia- When there is an electrolyte disturbance in which there is low level of magnesium in the body.

Causes

- Personality changes
- Muscle spasms
- Tremor.

4. IRON

Normal range: 35- 155 md/dL

Toxicity

- Haemochromatosis (Involving organ damage.)

Deficiency

* Anaemia

5. CALCIUM

NORMAL RANGE: 8.8-10.4 mg/dL

HYPOCALCEMIA: A condition in which the blood has too little calcium and can be caused by lack of vitamin D.

Deficiency

- Osteoporosis
- Confusion and memory loss.
- Depression and hallucinations.

HYPERCALCEMIA

Toxicity

- Constipation
- Kidney dysfunction