Harry okure

BCH 204

18/MHS07/040

 Pharmacology

A. Pottasium

Functions: Helps regulate acid base equilibrium and osmotic pressure of body fluids.

Influences muscle activity especially cardiac muscle

Deficiency manifestation: Muscle weakness; decreased intestinal Tone and distension

Cardiac arrhythmias

Respiratory failure

Toxicity; None

B. Calcium

Function; Builds and maintains bones and teeth; essential in clotting of blood .

Influences transmission of ions across cell membranes required in nerve transmission.

Deficiency manifestation; Rickets, Abnormal development of bones .

Toxicity value; excessive calcification of bone

Calcification of soft tissue; hypercalcemia, vomiting, lethargy.

C. Magnesium

Functions: Required for many co enzymes oxidation- phosphorylation reactions, nerve impulse transmissions and for muscle contractions.

Deficiency manifestation: muscle tremors, convulsions, irritability, trtany, hyper or hypoflexia .

Toxicity: Diarrhea, transient hypocalcemia.

D. Chloride

Functions: Helps regulate acid base equilibrium and osmotic pressure of body fluids,

Component of gastric juices

Deficiency manifestation; usually accompanied by sodium depletion.

Toxicity : none

E. Iron .

Functions: Essential for the formation of hemoglobin and oxygen transport; increases resistance to infection.

Functions as part of enzymes involved in tissue respiration

Deficiency manifestation: Hypochromic microcytic anaemia: malabsorption, irritability anorexia, pallor, lethargy.

Toxicity value: Hemochromatosis: hemosiderosis.