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DEPARTMENT: PHARMACOLOGY

MATRIC NO: 17/MHS07/027 co

COURSE CODE: BCH 204

ANSWERS TO ASSIGNMENT

1. POTASSIUM: This is called hyperkalemia, or high potassium. a normal range of potassium is between 3.6 and 5.2 millimoles per liter (mmol/L) of blood. A potassium level higher than 5.5 mmol/L is critically high, and a potassium level over 6 mmol/L can be life-threatening.

DEFICIENCY MANIFESTATION:

* Fatigue
* Muscle cramps
* Muscle aches and stiffness
* Breathing difficulties
* Mood changes

1. CALCUIM: The Toxic Condition of Hypercalcemia and Hypercalciuria

Hypercalcemia occurs when serum calcium levels are 10.5 mg/dL (also expressed as 2.63 mmol/L) or greater depending on normative laboratory values

DEFICIENCY MANIFESTATION:

* Difficulty swallowing
* Numbness
* Growth and development delay in children
* Heart problem involving blood pressure and hearth rhythm
* Tooth erosion
* Insufficient blood clotting

1. MAGNESIUM: Hypomagnesemia is defined as a serum magnesium level less than 0.75 mmol/L. Magnesium homeostasis is largely controlled by the kidney, which typically excretes about 120 mg magnesium into the urine each day.

DEFICIENCY MANIFESTATION:

* Muscle twitches and cramps
* Hypomagnesemia
* Mental disorder
* Fatigue and muscle weakness
* High blood pressure

1. CHLORIDE: At approximately 40–60 ppm, a toxic pneumonitis and/or acute pulmonary edema can develop. Concentrations of about 400 ppm and beyond are generally fatal over 30 minutes, and at 1,000 ppm and above, fatality ensues within only a few minutes

DEFICIENCY MANIFESTATION:

* Fluid loss
* Hypochloremia
* Frequent vomiting
* High blood pressure

1. IRON: Toxic effects begin to occur at doses above 10–20 mg/kg of elemental iron. Ingestions of more than 50 mg/kg of elemental iron are associated with severe toxicity. In terms of blood values, iron levels above 350–500 μg/dL are considered toxic, and levels over 1000 μg/dL indicate severe iron poisoning

DEFICIENCY MANIFESTATION:

* Fatigue
* Chest pain
* Brittle nails
* Inflammation
* Cold hands and feet