

### HYPOPHOSPHATEMIA: Risk Factors

Vitamin D deficiency    Refeeding after starvation

Alcohol use disorder    DKA

Alkalosis    Hypomagnesemia

Hypokalemia    Excessive loss of body fluids (sweat, diarrhea, vomiting, hyperventilation)

Burns    TPN

Overuse of antacids

### HYPOPHOSPHATEMIA: Manifestations

Paresthesias    Muscle weakness

Bone pain & deformities    Chest pain

Confusion    Seizures

Nystagmus

### HYPOPHOSPHATEMIA: Interventions

Oral phosphate replacement    Careful IV administration of phosphorus (for severe cases)

Gradual introduction of solution for pts on TPN    Protection from infection

Dietary management & education    Seizure precautions

### HYPERPHOSPHATEMIA: Risk Factors

Renal failure    Chemotherapy

Acute pancreatitis    High vitamin D

High phosphorus intake    Hypoparathyroidism

Excessive enema use    Acidosis

### HYPERPHOSPHATEMIA: Manifestations

Tetany    Cramps

Paresthesias    Dysrhythmias

Trousseau's sign    Chvostek's sign

Hyperreflexia    Anorexia

Nausea    Vomiting

Soft tissue calcifications

### HYPERPHOSPHATEMIA: Interventions

IV normal saline    **Medications:**

Dialysis    Vitamin D

Dietary management & education    Aluminum hydroxide

Diuretics

Phosphorus has an inverse relationship with calcium

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