

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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