

Causes of Hypophosphataemia

Redistribution

Increased insulin secretion, particularly during refeeding

Acute respiratory alkalosis

Hungry bone syndrome

Decreased intake or absorption

- Inadequate intake
- Inhibition of phosphate absorption (e.g. antacids containing aluminium or magnesium, niacin)
- Steatorrhoea and chronic diarrhoea
- Vitamin D deficiency or resistance

Increased urinary excretion

- Primary and secondary hyperparathyroidism
- Vitamin D deficiency or resistance
- Hereditary hypophosphatemic rickets
- Oncogenic osteomalacia (FGF23 secreting tumours, often benign)
- Fanconi syndrome
- Drugs - acetazolamide, tenofovir, IV iron polymaltose

Multiple causes

- Alcoholism - poor diet, increased GIT losses (diarrhoea, vomiting), magnesium depletion