**Evaluation of Hypocalcaemia** Suggested scheme for evaluation of Hypocalcaemia

Possible causes	Further investigations
Hypoalbuminaemia	Correct for albumin*
* Corrected Ca = Total Ca - 0.02(39.2 - [Alb] g/L) mmol/L	
Renal failure	Creatinine > 350 µmol/L
Hypoparathyroidism Post-surgery Idiopathic Magnesium depletion	PO₄ increased PTH decreased
Pseudohypoparathyroidism	
	PO4 increased PTH increased
Drug therapy Anticonvulsants Mithramycin Calcitonin Phosphates Bisphosphonates	Clinical assessment
Vitamin D deficiency/Malabsorption	
	PO4 decreased PTH increased ALP increased
Malignancy Tumour lysis Osteoblastic metastases	Clinical assessment
Acute pancreatitis	Clinical assessment Lipase increased
Rhabdomyolysis	Serum CK increased Clinical assessment

## Evaluation

## 1. Correct for hypoalbuminaemia

#### 2. Exclude

- · Renal failure
- · Acute pancreatitis
- · Drug therapy
- Malignancy
- Rhabdomyolysis

# 3. Estimate serum magnesium

- 4. Estimate serum PTH
- 5. Evaluate Vitamin D metabolism