

# Possible causes of Hypercalcaemia

Possible causes	Further investigations
<b>Hyperalbuminaemia</b>	Correct for albumin Check dehydration Check for prolonged tourniquet effect
<b>Hyperparathyroidism</b> Primary Tertiary Multiple endocrine neoplasia	PTH increased Ionized Ca increased
<b>Malignancy</b> Solid neoplasms  Haematological disorders (for example, Myeloma)	Clinical assessment Measure PTH-related protein (in research applications) Measure PTH (will be low)
<b>Increased absorption</b>	
Vitamin D excess	Measure Vitamin D
Sarcoid	Measure ACE, steroid suppression
Milk-alkali syndrome	Clinical assessment
IV therapy	Clinical assessment
<b>Increased bone resorption</b>	
Thyrotoxicosis	TSH < 0.1 mU/L
Vitamin A excess	Measure Vitamin A
Immobilisation	Clinical assessment
<b>Increased renal reabsorption</b> U Ca < 5 mmol/d Thiazides Familial Hypocalciuric Hypercalcaemia	
<b>Renal failure</b>	