

MANAGEMENT OF SEVERE OR SYMPTOMATIC HYPERCALCAEMIA (>3.40 mmol/L):

Admit immediately to hospital.

MANAGEMENT OF ASYMPTOMATIC, MILD OR MODERATE HYPERCALCAEMIA (≤3.40 mmol/L):

Suggested management by suspected cause:

- Primary hyperparathyroidism or FHH: Refer to an endocrinologist.
- Malignancy: Refer urgently under 2ww to the appropriate specialist.
- Known CKD STAGE 4/5: Refer to their renal specialist.
- **New renal failure** (?secondary to hypercalcaemia): Consider admitting to hospital or referring them urgently to a renal specialist (depending on the symptoms and likely speed of onset).
- **Drugs**: Reduce or stop any causative or contributory drugs if appropriate and recheck the serum calcium at least 3 weeks after
 - ➤ If the person is taking ergo- or colecalciferol, check their vitamin D level. An elevated result suggests toxicity (a rare cause of hypercalcaemia). In such cases, it may take many weeks for the serum calcium to return to normal after discontinuing. If the vitamin D level is normal, look for another cause.
 - If the person is taking lithium, contact their mental health specialist to discuss whether to stop the lithium, monitor the serum calcium, or refer to an endocrinologist.
 - If the adjusted serum calcium remains high after discontinuation of the drug, look for another underlying cause or refer to an endocrinologist or other appropriate specialist.
- Non-parathyroid endocrine disease: Refer to an endocrinologist.
- Immobilisation in Paget's disease: Refer to a specialist in metabolic bone disease.
- Sarcoidosis: Refer to a respiratory specialist (or other specialist depending on disease manifestation).
- Tuberculosis: Refer to infectious diseases.
- If a cause is not clear: Refer the person to an endocrinologist.

SEDTA = Purple top tube
HPT = Hyperparathyroidism
PHPT = Primary hyperparathyroidism

 $^\Delta \text{Lithium}$ can induce PHPT or cause reduced renal calcium excretion

⁺If myeloma is suspected, arrange for serum and urine protein electrophoresis and BJPs (Immunology, NGH)