## Measure albumin-adjusted serum calcium (Ca) if any features that might indicate PHPT:

- thirst, frequent or excessive urination, constipation
- osteoporosis or fragility fracture, or renal stone
- incidental Ca ≥ 2.6 mmol/litre

Consider measuring Ca if chronic non-differentiated symptoms

#### If Ca:

- ≥ 2.6 mmol/litre **or**
- ≥ 2.5 mmol/litre with features that might indicate PHPT

#### Re-measure Ca

If Ca on at least 2 separate occasions:

- ≥ 2.6 mmol/litre **or**
- ≥ 2.5 mmol/litre and PHPT suspected

Measure parathyroid hormone (PTH) with concurrent Ca measurement

- PTH above midpoint of reference range and
- PHPT suspected
- PTH below midpoint of reference range and
- concurrent Ca≥ 2.6 mmol/litre
- PTH below midpoint, but within reference range and
- concurrent Ca< 2.6 mmol/litre</li>

No further investigation for PHPT

PTH below lower limit of reference range

Seek alternative diagnosis, including malignancy

# Measure vitamin D and offer supplements if needed

**Measure urine calcium excretion** using one of:

**Seek advice from a specialist** with

expertise in PHPT

- 24-hour urinary calcium excretion
- random renal calcium:creatinine excretion ratio
- random calcium:creatinine clearance ratio

Exclude familial hypocalciuric hypercalcaemia

### **Assess after diagnosis of PHPT:**

- symptoms and comorbidities
- eGFR or serum creatinine
- DXA scan of lumbar spine, distal radius and hip
- ultrasound of renal tract

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See the original guidance at <a href="https://www.nice.org.uk/guidance/NG132">www.nice.org.uk/guidance/NG132</a>