

PF-PTD-245

Parathyroid Hormone

Synonyms	PTH PTH PTH PTH
Clinical Indication	 Differential diagnosis of hypercalcaemia. Assessment of parathyroid activity in patients with chronic renal failure. Investigation and monitoring of patients with hyperparathyroidism secondary to vitamin D deficiency or malabsorption. Investigation of hypocalcaemia. Investigation of abnormal calcium status or monitoring renal bone disease.
Part of Profile / See Also	
Request Form	Combined Pathology manual Blood form or ICE request
Availability / Frequency of Analysis	On request, if specific criteria met.
Turnaround Time	Same day (Monday to Friday)
Patient Preparation	Ideally, patients should be fasting (10 hours) except for renal patients. Calcium levels should be requested at same time.
Sample Requirements	
Specimen Type	Plasma
Volume	2 ml
Container	Lemon top (EDTA) tube Paediatric Lavender top (EDTA) tube and A yellow top (SST) sample should also be taken for bone profile at the same time.
Reference Range & Units	 1.3 - 9.3 pmol/L for normocalcaemic patients Reference: Beckman method insert). However, most patients are being investigated for abnormal calcium levels and in non-parathyroid disease PTH levels should reflect calcium status (i.e. high calcium, low PTH). In the presence of hypercalcaemia, a clearly elevated PTH of >7.0 pmol/L is diagnostic of primary hyperparathyroidism, while an appropriately suppressed result of <2.6 pmol/L virtually excludes primary hyper-parathyroidism but could be due to Familial Benign Hypercalcaemia (FBH). Where the PTH is between 2.6 and 7.0 pmol/L, either primary
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	hyperparathyroidism or FBH is possible and a fasting calcium excretion is indicated.
	To convert from ng/L (pg/mL) to pmol/L multiply by 0.106
Interferences	
Interpretation & Clinical	Critical Difference 72%
Decision Value (if applicable)	
References	
Test code	РТН
Lab Handling	In line with IFCC recommendations if the sample will not be analysed within 24 hours of the sample collection or if the sample is received after the weekend (from Friday 17:00) the sample must be centrifuged and aliquoted into an LP4 tube and the plasma frozen.