



Method and Reference Interval Changes

Due to recent contractual changes, The Following tests requested on community patients from the Bay of Plenty will now be undertaken at Pathlab Bay of Plenty, as opposed to being sent to Waikato Hospital Laboratory. These Tests will be performed on the Beckman Coulter DXI800 Immunoassay Analyser and are all performed **on serum samples**. Printed reference intervals will alter slightly from previous reports

Parathyroid Hormone (PTH)

Parathyroid hormone (PTH) is synthesized by the chief cells of the parathyroid glands and stored into dense neuroendocrine-type secretory granules, awaiting secretion. PTH test is used to aid in the differential diagnosis of hyperparathyroidism, hypoparathyroidism, or hypercalcemia of malignancy.

Reference Interval: 1.3 – 9.3 pmol/L

Sex Hormone Binding Globulin (SHBG)

Sex hormone-binding globulin (SHBG) is a glycoprotein responsible for blood transport of testosterone and estradiol. The measurement of SHBG can be an important indicator of chronic or excessive androgenic activity where clinical symptoms would seem to indicate androgen excess, but androgen levels are normal.

Reference Interval:

Males	13.3–89.5 nmol/L	Females	<46 years	18.2–135.5 nmol/L
		Females	>47 years	16.8–125.2 nmol/L

Dehydroepiandrosterone Sulfate (DHEA-S)

Dehydroepiandrosterone sulfate (DHEA-S) is a steroid synthesized primarily by the adrenal gland. DHEA-S may be used in the differential diagnosis of Cushing's syndrome and to evaluate adrenocortical diseases, such as congenital adrenal hyperplasia and adrenal tumours.

Reference Interval:

Age	Female	Male	Units
0-21	1.38 – 8.7	0.65 – 14.5	umol/L
21-30	0.49 – 10.6	2.3 – 18.6	umol/L
31-40	0.62 – 7.2	2.9 – 12.5	umol/L
41-50	0.51 – 6.2	1.9 – 13.3	umol/L
51-60	0.22 – 5.1	1.0 – 8.5	umol/L
61-70	0.32 – 3.6	0.65 – 6.6	umol/L
>71	0.19 – 4.8	0.14 – 6.8	umol/L

If you have any queries please contact:

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