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## TEST PATIENT

GUa d'Y'HYghBUa Y  
Sex : :  
DUHY Collected : 00-00-0000  
111 H9GH ROAD TEST SUBURB  
@AB -8: 00000000 UR#:00000000

## TEST PHYSICIAN

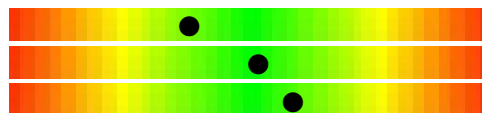
DR JOHN DOE  
111 CLINIC STF 99H  
7@B=7'GI 6I F 6'J =7' \$\$\$

## ENDOCRINOLOGY

### BLOOD - SERUM

#### THYROID FUNCTION TESTS

	Result	Range	Units
TSH	1.63	0.50 - 5.00	mIU/L
FREE T4	16.3	11.0 - 21.0	pmol/L
FREE T3	5.0	3.1 - 6.0	pmol/L



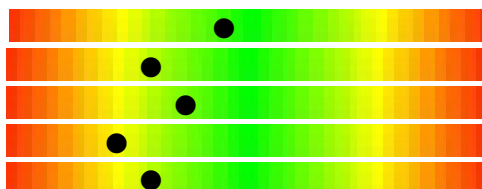
#### THYROID TEST COMMENTS

There are differing views regarding reference ranges of TSH. New reference ranges using populations without thyroid disease suggest that the optimal TSH range for thyroid function should be 0.5-2.0mIU/L. However it should be noted that this laboratory shall continue to report a normal reference range of 0.5 - 5.0 mIU/L.

#### FREE T4 and FREE T3

Free T4 and T3 represent bioactive portion of thyroid hormone. The test results can identify functional or subclinical hyper- and hypothyroidism and overt hypo- and hyperthyroidism. T4 converts to active T3 or inactive rT3.

DHEA Sulphate	6.7	1.2 - 15.0	umol/L
TESTOSTERONE	14.6	12.0 - 31.9	nmol/L
Sex Hormone Binding Globulin	26	15 - 60	nmol/L
Calculated Free Testosterone	243.2 *L	260.0 - 740.0	pmol/L
Calc Free Testosterone (Vermeulen)	306.5	260.0 - 750.0	pmol/L
OESTRADIOL	41		pmol/L



#### Serum Hormones Comment

##### SERUM HORMONE REFERENCE RANGES

Hormone	Progesterone	Estradiol	Estrone	FSH	LH
Units	nmol/L	pmol/L	pg/ml	mIU/ml	mIU/ml
Early Follicular	-	-	15 - 150	-	-
Follicular phase	0.6 - 4.7	46 - 607	-	2.8 - 9.3	2.8 - 7.6
Late Follicular	-	-	100 - 250	-	-
Mid-cycle peak	-	315 - 1828	-	3.0 - 19.2	10.5 - 85
Luteal phase	5.3 - 86 *	161 - 774	15 - 200	1.7 - 7.7	1.0 - 11.4
Post-menopause	0.3 - 2.5	< 200	15 - 55	31.0 - 153	12.0 - 75.0
Male	0.7 - 4.3	37 - 184	-	1.0 - 8.0	1.14 - 8.75

\* Progesterone sample taken on day 21 of the menstrual cycle is useful for the assessment of ovulation.

A level > 20nmol/L is usually indicative of normal corpus luteum function.

#### ENDOCRINOLOGY COMMENTS

Calculated Free Testosterone has replaced Free Androgen Index as a more accurate measure of Free Testosterone levels.

Please note that the equation to calculate free testosterone has changed from the Ly and Handelsman formula to the Vermeulen formula.

While Ly and Handelsman is deemed the better calculation, most labs around the world have chosen to use the Vermeulen equation.

This laboratory has chosen to provide both calculations for an interim period.

Please contact the Biochemistry Department for more information if required.

(\*) Result outside normal reference range

(H) Result is above upper limit of reference range (L) Result is below lower limit of reference range

(\*\*) Result is critically abnormal