

Name : Mr. ABHINAV KUMAR

Received on : 28/02/2011

Sex : M Age : 62 Years ID : 003

Reported on : 28/02/2011

Refd. by : Dr. AMIT KUMAR SINHA MBBS MD

IMMUNOASSAY & SPECIAL CHEMISTRY REPORT

Investigation	Result		Unit	Expected Value
	In Range	Out Range		
Serum T4 (Thyroxine)	75.15		nmol/l	60 - 120
Serum TSH (Thyroid Stimulating hormone)		(H) 14.55	μIU/ml	0.25 - 5.0

The test has been carried out in Fully Automated Immunoassay System-MINI-VIDAS using ELFA (Enzyme Linked Fluorescence Assay) technology.

Wallach's reference range for Thyroid for neonates and children

Age	TSH (mIU/L)	TT4 (nmol/L)	TT3 (nmol/L)
1-4 days	1-39	142-277	1.5-11.4
1-4 wks	1.7-9.1	106-221	1.6-5.3
1-12 mon	0.8-8.2	76-210	1.6-3.8
1-5 yrs	0.7-5.7	94-193	1.6-4.1
6-10 yrs	0.7-5.7	82-171	1.4-3.7
11-15 yrs	0.7-5.7	71-151	1.3-3.3
15-18 yrs	0.7-5.7	54-152	1.2-3.2

Note:

- * TSH stimulates the thyroid gland to produce the main thyroid hormones T3 and T4.
- * In cases of hyperthyroidism TSH level is severely inhibited and may even be undetectable.
- * In rare forms of high-origin hyperthyroidism, the TSH level is not reduced, since the negative-feedback control of the thyroid hormones has no effect.
- * In cases of primary hypothyroidism, TSH levels are always much higher than normal and thyroid hormone levels are low.
- * The TSH assay aids in diagnosing thyroid or hypophysial disorders.
- * The T4 assay aids in assessing thyroid function, which is characterized by a decrease in thyroxine levels in patients with hypothyroidism and an increase in patients with hyperthyroidism.