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REPORT

PT Name : NILAM KIRVE
 Ref By : DR. VANDANA POWAR
 Reg No : HL1309880930 / MH145
 Barcode : 666684920
 INV : THYROID PROFILE -3 (T3 T4 TSH)

Age : 39 Year | Sex : Male
 Registered on : 14-01-2023 02:32 PM
 Received on : 16-01-2023 11:35 AM
 Reported on : 16-01-2023 12:30 PM

SAMPLE COLLECTED AT :
 PARTH LAB

 SAMPLE : Serum

THYROID PROFILE -3 (T3 T4 TSH)

TEST DESCRIPTION	RESULT	UNITS	BIOLOGICAL REFERENCE RANGE
TOTAL TRIIODOTHYRONINE (T3) <small>SHIMADZU CLIA</small>	1.44	ng/mL	0.80 - 2.00
TOTAL THYROXINE (T4) <small>SHIMADZU CLIA</small>	8.86	ug/dl	5.10 - 14.10
THYROID STIMULATING HORMONE (TSH) <small>SHIMADZU CLIA</small>	2.07	uIU/ml	0.35 - 5.50

Reference Range

Thyroid hormone status during pregnancy:

Pregnancy	T3	T4	TSH
1st Trimester	0.70-1.80	6-16.5	0.37-3.6
2nd & 3rd Trimester	0.80-2.00	6-18.5	0.38-4.04

Reference ranges by Age

0-5 days: 0.7-15.2
 6 days-2 months: 0.7-11.0
 3-11 months: 0.7-8.4
 1-5 years: 0.7-6.0
 6-10 years: 0.6-4.8

Interpretation

1. Patients having low T3 and T4 levels but high TSH levels suffer from primary hypothyroidism, cretinism, juvenile myxedema or autoimmune disorders.
2. Patients having high T3 and T4 levels but low TSH levels suffer from Grave's disease, toxic adenoma or sub-acute thyroiditis.
3. Patients having either low or normal T3 and T4 levels but low TSH values suffer from iodine deficiency or secondary hypothyroidism.
4. Patients having high T3 and T4 levels but normal TSH levels may suffer from toxic multinodular goiter. This condition is mostly a symptomatic and may cause transient hyperthyroidism but no persistent symptoms.
5. Patients with high or normal T3 and T4 levels and low or normal TSH levels suffer either from T3 toxicosis or T4 toxicosis respectively.
6. In patients with non thyroidal illness abnormal test results are not necessarily indicative of thyroidism but may be due to adaptation to the catabolic state and may revert to normal when the patient recovers.
7. There are many drugs for eg. Glucocorticoids, Dopamine, Lithium, Iodides, Oral radiographic dyes, etc. which may affect the thyroid function tests.
8. Generally when total T3 and total T4 results are indecisive then Free T3 and Free T4 tests are recommended for further confirmation along with TSH levels.

Please correlate with clinical conditions

--End of report--

Dr. Khande Tejal Abasaheb (MD PATH)
 Consultant Pathologist