

<b>Visit ID</b> : MBAR37767	Registration : 25/Feb/2023 12:59PM
UHID/MR No : ABAR.0000037755	Collected : 25/Feb/2023 01:11PM
<b>Patient Name</b> : Mrs.NEELAM KUMARI	Received : 25/Feb/2023 01:15PM
Age/Gender : 32 Y O M O D /F	Reported : 25/Feb/2023 05:13PM
Ref Doctor : Dr.NITIN AGARWAL	Status : Final Report
Client Name : MODERN PATH SERVICES, BAREILLY	Client Code : 2423
Client Add : 240, Sanjay Nagar Bareilly (UP)	Barcode No : A3576085

## DEPARTMENT OF HORMONE ASSAYS

Test Name	Result	Unit	Bio. Ref. Range	Method
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## THYROID PROFILE (T3,T4,ULTRASENSITIVE TSH)

Sample Type : SERUM

T3	0.89	ng/ml	0.61-1.81	CLIA
T4	7.6	ug/dl	5.01-12.45	CLIA
Ultrasensitive TSH	<b>0.535</b>	uIU/mL	0.55-4.78	CLIA

## INTERPRETATION:

- Serum T3, T4 and TSH are the measurements form three components of thyroid screening panel and are useful in diagnosing various disorders of thyroid gland function.
- Primary hyperthyroidism is accompanied by elevated serum T3 and T4 values along with depressed TSH levels.
- Primary hypothyroidism is accompanied by depressed serum T3 and T4 values and elevated serum TSH levels.
- Normal T4 levels accompanied by high T3 levels are seen in patients with T3 thyrotoxicosis. Slightly elevated T3 levels may be found in pregnancy and in estrogen therapy while depressed levels may be encountered in severe illness, malnutrition, renal failure and during therapy with drugs like propranolol and propylthiouracil.
- Although elevated TSH levels are nearly always indicative of primary hypothyroidism, rarely they can result from TSH secreting pituitary tumors (secondary hyperthyroidism).
- Low levels of Thyroid hormones (T3, T4 & FT3, FT4) are seen in cases of primary, secondary and tertiary hypothyroidism and sometimes in non-thyroidal illness also.
- Increased levels are found in Grave's disease, hyperthyroidism and thyroid hormone resistance.
- TSH levels are raised in primary hypothyroidism and are low in hyperthyroidism and secondary hypothyroidism.

## REFERENCE RANGE:

PREGNANCY	Ultrasensitive TSH in uIU/mL
1st Trimester	0.100 - 2.500
2nd Trimester	0.200 - 3.000
3rd Trimester	0.300 - 3.000

( Reference range recommended by the American Thyroid Association)

## Comments :

- During pregnancy, Free thyroid profile (FT3, FT4 & Ultra-TSH) is recommended.
- TSH levels are subject to circadian variation, reaches peak levels between 2-4 AM and at a minimum between 6-10 PM. The variation of the day has influence on the measured serum TSH concentrations.

\*\*\* End Of Report \*\*\*



 Dr. Miti Gupta  
 DNB ; MD [Pathology]
