



	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho		(Pathology)
NAME	: Mrs. SEEMA DEVI		
AGE/ GENDER	: 38 YRS/FEMALE	PATIENT ID	: 1744129
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012502030055
REFERRED BY	: LOOMBA HOSPITAL (AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 03/Feb/2025 03:18 PM
BARCODE NO.	: 01524897	<b>COLLECTION DATE</b>	:03/Feb/202503:19PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 03/Feb/2025 04:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	VTT	
Test Name	Value	Unit	Biological Reference interval
restrume	Tulue	Cint	biological weierenet interval
		OCRINOLOGY	
	END		
TRIIODOTHYRONI	END THYROID FU	DCRINOLOGY NCTION TEST: TOTAL	0.35 - 1.93
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4): :	END THYROID FU NE (T3): SERUM 0.795 NESCENT MICROPARTICLE IMMUNOASSAY)	DCRINOLOGY NCTION TEST: TOTAL	
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4): S by CMIA (CHEMILUMII THYROID STIMULA	END THYROID FU NE (T3): SERUM 0.795 NESCENT MICROPARTICLE IMMUNOASSAY) SERUM 7.79	DCRINOLOGY NCTION TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4): S by CMIA (CHEMILUMII THYROID STIMULA	END THYROID FU NE (T3): SERUM 0.795 NESCENT MICROPARTICLE IMMUNOASSAY) SERUM 7.79 NESCENT MICROPARTICLE IMMUNOASSAY) ATING HORMONE (TSH): SERUM 4.312	DCRINOLOGY NCTION TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

## LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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Test Name		Value Uni		t	Biological Reference interval	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	IMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
2nd Trimester				0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

## **INCREASED TSH LEVELS:**

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

## DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester

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





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