



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	M	m Chopra D (Pathology) nt Pathologist		
NAME	: Mrs. PEEUS	H MANJUSHA				
AGE/ GENDER	: 39 YRS/FEM	ALE		PATIENT ID	: 1716747	
COLLECTED BY	:			REG. NO./LAB NO.	:012501060001	
REFERRED BY	:			REGISTRATION DATE	: 06/Jan/2025 07:08 AM	
BARCODE NO.	:01523497			COLLECTION DATE	:06/Jan/202507:09AM	
CLIENT CODE.	: KOS DIAGN	OSTIC LAB		REPORTING DATE	:06/Jan/2025 10:43AM	
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMB	ALA CANTI	Γ		
Test Name			Value	Unit	Biological Refer	rence interval
			ENDOC	CRINOLOGY		
		THYRC	DID FUN	CTION TEST: TOTAL		
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		0.904	ng/mL	0.35 - 1.93		
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			7.68	μgm/dl	4.87 - 12.60	
THYROID STIMULATING HORMONE (TSH): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			3.802	µIU/mI	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE					
day has influence on the	measured serum TS lure at any level of	SH concentrations. TSH stim regulation of the hypotha	nulates the pi	roduction and secretion of the	pm. The variation is of the order of 50 metabolically active hormones, thyro her underproduction (hypothyroidisr	oxine (T4)and
CLINICAL CONDITION		T3		T4	TSH	
Primary Hypothyroidis		Reduced		Reduced	Increased (Significantly)	
Subclinical Hypothyroi	aism:	Normal or Low Norma	ai	Normal or Low Normal	High	

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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.

TRIIODOTH	(RONINE (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	

Increased

Normal or High Normal





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Tost Nama		Value Unit	Biological Deference interval

Test Name		Value	Unit	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 LE	VELS 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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