



	Dr. Vinay Ch MD (Pathology & Chairman & Cor		M	a m Chopra ID (Pathology) ant Pathologist		
NAME	: Mrs. MADHU BALA					
AGE/ GENDER	: 61 YRS/FEMALE		PATIENT ID	: 1788590		
COLLECTED BY	:		REG. NO./LAB NO.	: 012503120029		
REFERRED BY	:		REGISTRATION DATE	: 12/Mar/2025 10:06 AM		
BARCODE NO.	: 01526991		COLLECTION DATE	: 12/Mar/2025 10:07AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Mar/2025 12:43PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT				
Test Name		Value	Unit	Biological Refere	nce interval	
TRIIODOTHYRONI	NE (T3): SERUM	1.023	TION TEST: TOTAI ng/mL			
	IESCENT MICROPARTICLE IMMUNOA		μgm/d			
	IESCENT MICROPARTICLE IMMUNOA					
THYROID STIMULATING HORMONE (TSH): SERUM 1.99 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			µIU/m	L 0.35 - 5.50		
3rd GENERATION, ULT		/				
INTERPRETATION:						
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. T	SH stimulates the pro	oduction and secretion of the	<i>D pm. The variation is of the order of 50%</i> metabolically active hormones, thyroxi ther underproduction (hypothyroidism)	ne (T4)and	
CLINICAL CONDITION	Т3		T4	TSH		
Primary Hypothyroidis			Reduced	Increased (Significantly)		
Subclinical Hypothyroi		/ Normal	Normal or Low Normal	High		
Primary Hyperthyroidis		4	Increased	Reduced (at times undetectable)		
Subclinical Hyperthyro	idism: Normal or High	n 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	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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