



		(Pathology & Microbiology)		<b>m Chopra</b> D (Pathology) nt Pathologist		
NAME	: Mrs. MEENA					
AGE/ GENDER	: 37 YRS/FEMALE	]	PATIENT ID	: 1797529		
COLLECTED BY	:	1	REG. NO./LAB NO.	: 012503190037		
REFERRED BY	: LOOMBA HOSPITAL (AMBALA CA	NTT) <b>REGISTRATION DATE</b>		: 19/Mar/2025 12:08 PM		
BARCODE NO.	: 01527398	COLLECTION DATE		: 19/Mar/2025 12:13PM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>		: 19/Mar/2025 02:57PM	: 19/Mar/2025 02:57PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT				
Test Name		Value	Unit	Biological Reference interv	val	
		ENDOCH	RINOLOGY			
	THYRO	DID FUNCT	TION TEST: TOTAL			
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		1.103	ng/mL	0.35 - 1.93		
THYROXINE (T4): S	SERUM iescent microparticle immunoassay)	8.82	μgm/d	L 4.87 - 12.60		
	ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	11.291 <sup>H</sup>	µIU/m	L 0.35 - 5.50		
3rd GENERATION, ULT INTERPRETATION:						
day has influence on the trilodothyronine (T3).Fai		ulates the prod	duction and secretion of the	<i>ppm. The variation is of the order of 50%.Hence time</i> metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or	of th	
CLINICAL CONDITION	Т3		T4	TSH		
Primary Hypothyroidis			Reduced	Increased (Significantly)		
Subclinical Hypothyroi	dism: Normal or Low Norma	ai N	Iormal or Low Normal	High		

LIMITATION	<u>د</u>

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.

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	

Increased

Normal or High Normal





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







Dr

Yugam Chopra

	MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
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Test Name		Value	Unit		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	
	RECOM	MENDATIONS OF TSH L	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.

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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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