



	MD (Pathology	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n <b>Chopra</b> 9 (Pathology) 1t Pathologist	
NAME	: Mrs. RENU BALA				
AGE/ GENDER	: 42 YRS/FEMALE	P	ATIENT ID	: 1813122	
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012503310072	
<b>REFERRED BY</b>	:	R	EGISTRATION DATE	: 31/Mar/2025 06:19 PM	
BARCODE NO.	: 01528105	C	OLLECTION DATE	: 31/Mar/2025 06:20PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 31/Mar/2025 11:26PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Refere	ence interval
		ENDOCRI	NOLOGY		
	TH	IYROID FUNCT	ION TEST: TOTAI		
TRIIODOTHYRONINE (T3): SERUM       1.21         by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		1.211 ASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4):		11.32	µgm/dL	4.87 - 12.60	
	ATING HORMONE (TSH): S	0.451	μIU/mL	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:		,			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the produ	iction and secretion of the i	om. The variation is of the order of 509 netabolically active hormones, thyrox ner underproduction (hypothyroidism)	tine (T4)and
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis				Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Lo	w Normal No	rmal or Low Normal	High	

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Subclinical Hy	perthyroidism:

Primary Hyperthyroidism:

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.

Increased

Normal or High Normal

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	

Increased

Normal or High Normal





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

Reduced (at times undetectable)

Reduced

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	<b>X7</b> 1	TT *4	

Test Name		Value	Unit		<b>Biological Reference interval</b>	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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 LE	EVELS DURING PREC	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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