



	MD (Pathology & Mi	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n <b>Chopra</b> (Pathology) Pathologist
NAME	: Mrs. PRIYANKA			
AGE/ GENDER	: 27 YRS/FEMALE		PATIENT ID	: 1640763
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012410110037
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 11/Oct/2024 01:27 PM
BARCODE NO.	: 01518708		COLLECTION DATE	: 11/Oct/2024 01:47PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 11/Oct/2024 03:33PM
Test Name			Unit	Biological Reference interval
	ТЦ		CTION TEST: TOTAL	
		0.784		0.25 1.02
TRIIODOTHYRONINE by CMIA (CHEMILUMINE	(13). SERUIVI ESCENT MICROPARTICLE IMMUNOASSA		ng/mL	0.35 - 1.93
THYROXINE (T4): SERUM 9.72 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		μgm/dL	4.87 - 12.60	
	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA ASENSITIVE	3.752 Y)	μIU/mL	0.35 - 5.50

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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, 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	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolo Chairman & Consultant Path	yy) MD	Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT			

Test Name			Value	Unit		Biological Reference interval
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	
	RECO	DMMENDATIONS 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.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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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