



Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
NAME	: Mrs. ISHA				
AGE/ GENDER	: 35 YRS/FEMALE		PATIENT ID	: 1590940	
COLLECTED BY	:		REG. NO./LAB NO.	: 012408250048	
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 25/Aug/2024 12:22 PM	
BARCODE NO.	: 01515696		COLLECTION DATE	: 25/Aug/2024 12:25PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>		: 25/Aug/2024 02:15PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	г		
Test Name		Value	Unit	Biological Reference interval	
		ENDO	CRINOLOGY		
	TI	HYROID FUN	CTION TEST: TOTAL		
TRIIODOTHYRONINE (T3): SERUM 1.203		1.203	ng/mL	0.35 - 1.93	
by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) THYROXINE (T4): SERUM 10.48 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		10.48	µgm/dL	4.87 - 12.60	
THYROID STIMULAT	ING HORMONE (TSH): SERUM	0.475	μIU/mL	0.35 - 5.50	
day has influence on the trilodothyronine (T3).Fai		stimulates the pr	oduction and secretion of the me	<i>m. The variation is of the order of 50%.Hence time of the</i> etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or	

CLINICAL CONDITION	T3	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







Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. ISHA AGE/ GENDER : 35 YRS/FEMALE **PATIENT ID** :1590940 **COLLECTED BY** REG. NO./LAB NO. :012408250048 **REFERRED BY REGISTRATION DATE** : 25/Aug/2024 12:22 PM : **BARCODE NO.** :01515696 **COLLECTION DATE** : 25/Aug/2024 12:25PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 25/Aug/2024 02:15PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Dr. Vinay Chopra

					Biological Reference interval
0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
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		
	0.92 - 2.28 0.35 - 1.93 0.35 - 1.93 RECOM 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years   0.35 - 1.93 11 - 19 Years   0.35 - 1.93 > 20 Years (Adults)   RECOMMENDATIONS OF TSH LE   1st Trimester 2nd Trimester	0.92 - 2.28     1 - 10 Years     6.00 - 13.80       0.35 - 1.93     11 - 19 Years     4.87 - 13.20       0.35 - 1.93     > 20 Years (Adults)     4.87 - 12.60       RECOMMENDATIONS OF TSH LEVELS DURING PREC       1st Trimester     2nd Trimester	0.92 - 2.28     1 - 10 Years     6.00 - 13.80     1 - 10 Years       0.35 - 1.93     11 - 19 Years     4.87 - 13.20     11 - 19 Years       0.35 - 1.93     > 20 Years (Adults)     4.87 - 12.60     > 20 Years (Adults)       RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY ( µIU/mL)       1st Trimester     0.10 - 2.50       2nd Trimester     0.20 - 3.00	0.92 - 2.28     1 - 10 Years     6.00 - 13.80     1 - 10 Years     0.60 - 5.50       0.35 - 1.93     11 - 19 Years     4.87 - 13.20     11 - 19 Years     0.50 - 5.50       0.35 - 1.93     > 20 Years (Adults)     4.87 - 12.60     > 20 Years (Adults)     0.35 - 5.50       RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY ( μU/mL)       1st Trimester     0.10 - 2.50       2nd Trimester     0.20 - 3.00

## 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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