



	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD (I CEO & Consultant F	Pathology)	
NAME	: Mrs. NISHA				
AGE/ GENDER	: 38 YRS/FEMALE	PATI	ENT ID	: 1650070	
COLLECTED BY	:	REG. I	NO./LAB NO.	: 012410220038	
REFERRED BY	:	REGIS	TRATION DATE	: 22/Oct/2024 12:19 PM	
BARCODE NO.	: 01519364	COLL	ECTION DATE	: 22/Oct/2024 12:20PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 22/Oct/2024 02:04PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRINO	LOGY		
		THYROID FUNCTION	TEST: TOTAL		
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY,		0.425 SSAY)	ng/mL	0.35 - 1.93	
		10.57	µgm/dL	4.87 - 12.60	
· · ·		8.733 <sup>H</sup>	μlU/mL	0.35 - 5.50	
by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMI	TING HORMONE (TSH): SERUM	0.755			
by CMIA (CHÈMILUMII THYROID STIMULA	NESCENT MICROPARTICLE	0.735			

overproduction(hyperthyroidism) of T4 and/or T3.

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 (e.g.: phenytoin , salicylates).

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.
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





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

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NAME

AGE/ GENDER

**COLLECTED BY** 



FIED LAB	(it officer here iteration	EXCELLENCE IN HEALTHCARE & DIAGNOSTICS				
	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis	ogy & Microbiology)		<b>Dr. Yugam Chopra</b> MD (Pathology) CEO & Consultant Pathologist		
: Mrs. NISH	A					
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:		REG.	NO./LAB NO.	:012410220038		
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**COLLECTION DATE** 

**REFERRED BY BARCODE NO.** :01519364 CLIENT CODE. **CLIENT ADDRESS** 

: KOS DIAGNOSTIC LAB **REPORTING DATE** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit 0.70 - 7.00 6 - 12 Months 0.74 - 2.40 6 - 12 Months 7.10 - 16.16 6-12 Months

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	VENDATIONS OF TSH LE	VELS DURING PREGN	IANCY ( 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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PM

**Biological Reference interval** 

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