



	MD (Pathology & Mic Chairman & Consulta			(Pathology) Pathologist	
NAME	: Mrs. PRIYA				
AGE/ GENDER	: 26 YRS/FEMALE		PATIENT ID	: 1576903	
COLLECTED BY	:		REG. NO./LAB NO.	: 012408100050	
REFERRED BY	: LOOMBA HOSPITAL (AMBALA CANTT)		<b>REGISTRATION DATE</b>	: 10/Aug/2024 03:02 PM	
BARCODE NO.	: 01514847	:01514847		: 10/Aug/2024 03:04PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	OS DIAGNOSTIC LAB		: 10/Aug/2024 05:02PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANT	ΓT		
Test Name		Value	Unit	Biological Reference interval	
L		ENDC	OCRINOLOGY		
	ТНҮ		OCRINOLOGY		
		<b>ROID FUI</b> 0.854		0.35 - 1.93	
THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY	0.854 0.834	NCTION TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	

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 Reduced (at times undetectable) Primary Hyperthyroidism: Increased Increased 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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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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. PRIYA AGE/ GENDER : 26 YRS/FEMALE **PATIENT ID** :1576903 **COLLECTED BY** REG. NO./LAB NO. :012408100050 : **REFERRED BY** : LOOMBA HOSPITAL (AMBALA CANTT) **REGISTRATION DATE** : 10/Aug/2024 03:02 PM **BARCODE NO.** :01514847 **COLLECTION DATE** : 10/Aug/2024 03:04PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 10/Aug/2024 05:02PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT al

Dr. Vinay Chopra

Test Name			Value	Unit	t	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	
	RECON	IMENDATIONS OF TSH LI	EVELS DURING PREC	SNANCY ( 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 \*\*





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) V DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

