



		Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		M	m Chopra D (Pathology) nt Pathologist		
NAME	: Mrs. POOJA	SETHI					
AGE/ GENDER	: 34 YRS/FEM	ALE		PATIENT ID	: 1704982		
COLLECTED BY	:			REG. NO./LAB NO.	: 012412210015		
REFERRED BY	:			REGISTRATION DATE	: 21/Dec/2024 10:08 AM		
BARCODE NO.	:01522752			COLLECTION DATE	: 21/Dec/2024 10:11AM		
CLIENT CODE.	: KOS DIAGNO	OSTIC LAB		REPORTING DATE	: 21/Dec/2024 11:32AM		
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMB	ALA CANTT				
Test Name			Value	Unit	Biological Reference inter	rval	
		THYRO		RINOLOGY TION TEST: TOTAI			
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		1.36	ng/mL	0.35 - 1.93			
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			8.49	µgm/d	L 4.87 - 12.60		
THYROID STIMULATING HORMONE (TSH): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			1.867	µIU/m	L 0.35 - 5.50		
3rd GENERATION, ULT. <u>INTERPRETATION</u> :	RASENSITIVE						
day has influence on the I	<i>measured serum TS</i> lure at any level of	H concentrations. TSH stim regulation of the hypotha	ulates the pr	oduction and secretion of the	pm. The variation is of the order of 50%.Hence time metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or		
CLINICAL CONDITION		T3 T4		TSH			
Primary Hypothyroidis		Reduced		Reduced	Increased (Significantly)		
Subclinical Hypothyroi	dism:	Normal or Low Norma	nal or Low Normal Normal or Low Normal		High		

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	

Increased

Normal or High Normal





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



Reduced (at times undetectable)

Reduced

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. POOJA SETHI		
AGE/ GENDER	: 34 YRS/FEMALE	PATIENT ID	: 1704982
COLLECTED BY	:	REG. NO./LAB NO.	: 012412210015
REFERRED BY	:	REGISTRATION DATE	: 21/Dec/2024 10:08 AM
BARCODE NO.	:01522752	COLLECTION DATE	: 21/Dec/2024 10:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Dec/2024 11:32AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Г	

Test Name		Value	Unit		Biological Reference interva	
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 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, 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 ***





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

