



	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	crobiology)		m Chopra D (Pathology) nt Pathologist	
NAME	: Mrs. VIDUSHI AGGARWAL				
AGE/ GENDER	: 30 YRS/FEMALE	]	PATIENT ID	: 1705091	
COLLECTED BY	:	]	REG. NO./LAB NO.	:012502240051	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMB	NIX CLUB (AMBALA CANTT) <b>RI</b>		: 24/Feb/2025 07:19 PM	
BARCODE NO.	:01526094	C		: 24/Feb/2025 07:20PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DAT</b>		: 24/Feb/2025 11:12PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT			
Test Name		Value	Unit	Biological Refer	rence interval
		ENDOCR	RINOLOGY		
	THYR	OID FUNCT	TION TEST: TOTAL		
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		1.672 <sub>Y)</sub>	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	ERUM ESCENT MICROPARTICLE IMMUNOASSA	13.75 <sup>H</sup>	µgm/d	4.87 - 12.60	
	TING HORMONE (TSH): SERUM	1.859	μIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	ESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE	Y)			
TSH levels are subject to a day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak levels bet measured serum TSH concentrations. TSH st lure at any level of regulation of the hypot roidism) of T4 and/or T3.	imulates the proc	duction and secretion of the	metabolically active hormones, thyro	oxine (T4)and
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Low Nor	mai N	lormal or Low Normal	High	

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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

Reduced (at times undetectable)

Reduced

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





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. VIDUSHI AGGARWAL		
AGE/ GENDER	: 30 YRS/FEMALE	PATIENT ID	: 1705091
<b>COLLECTED BY</b>	:	REG. NO./LAB NO.	: 012502240051
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 24/Feb/2025 07:19 PM
BARCODE NO.	: 01526094	<b>COLLECTION DATE</b>	: 24/Feb/2025 07:20PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 24/Feb/2025 11:12PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit		Biological Reference interval
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	MMENDATIONS OF TSH LI	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)

