



	MD (Pathology	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n <b>Chopra</b> (Pathology) Pathologist
NAME	: Mrs. SHWETA GUPTA			
AGE/ GENDER	: 36 YRS/FEMALE		PATIENT ID	: 1572107
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408060024
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 06/Aug/2024 09:53 AM
BARCODE NO.	:01514572		COLLECTION DATE	: 06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Aug/2024 10:20AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEMOO	GLOBIN (HB)	
HAEMOGLOBIN (HE		13 5	dm/dl	120-160
HAEMOGLOBIN (HB by CALORIMETRIC INTERPRETATION:-	3)	13.5	gm/dL	12.0 - 16.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

## NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

chemically raising the production of red blood cells).







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		ENDOC	RINOLOGY		
	Т		RINOLOGY CTION TEST: TOTAL		
TRIIODOTHYRONIN by CMIA (CHEMILUMI		<b>HYROID FUNC</b> 0.893		0.35 - 1.93	
by CMIA (CHEMILUMI THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS	CHYROID FUNC 0.893 SSAY) 9.1	CTION TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMI THYROXINE (T4): SE by CMIA (CHEMILUMI THYROID STIMULAT	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS RUM NESCENT MICROPARTICLE IMMUNOAS FING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOAS	CHYROID FUNC 0.893 SSAY) 9.1 SSAY) 1.561	CTION TEST: TOTAL ng/mL		

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 (eg: phenytoin , salicylates).

3. Serum T4 levies 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





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Test Name			Value	Unit	t	Biological Reference interva
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 LE	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, 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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