



	MD (Pathology	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		r Chopra (Pathology) Pathologist	
NAME	: Miss. MISHA				
AGE/ GENDER	: 24 YRS/FEMALE	PAT	TENT ID	: 1548689	
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	: 012407140027	
REFERRED BY	:	REG	ISTRATION DATE	: 14/Jul/2024 09:19 AM	
BARCODE NO.	:01513120	COI	LECTION DATE	: 14/Jul/2024 09:46AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 14/Jul/2024 11:42AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRIN	OLOGY		
		ENDOCRIN THYROID FUNCTIO			
		THYROID FUNCTIO		0.35 - 1.93	
THYROXINE (T4): SE	NESCENT MICROPARTICLE IMMUNO	THYROID FUNCTIO 1.154 7.55	N TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMI THYROXINE (T4): SE by CMIA (CHEMILUMI THYROID STIMULA	NESCENT MICROPARTICLE IMMUNC	THYROID FUNCTIO 1.154 DASSAY) 7.55 DASSAY) 1 0.721	N TEST: TOTAL ng/mL		
by CMIA (CHEMILUMI THYROXINE (T4): SE by CMIA (CHEMILUMI THYROID STIMULA	NESCENT MICROPARTICLE IMMUNG RUM NESCENT MICROPARTICLE IMMUNG TING HORMONE (TSH): SERUN NESCENT MICROPARTICLE IMMUNG	THYROID FUNCTIO 1.154 DASSAY) 7.55 DASSAY) 1 0.721	N TEST: TOTAL ng/mL μgm/dL	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 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.

TRIIODOTH	(RONINE (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







	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
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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	
	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, 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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