



	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)	
NAME	: Mrs. MEGHA				
AGE/ GENDER	: 36 YRS/FEMALE	PATI	ENT ID	: 1570666	
COLLECTED BY	:	REG. NO./LAB NO.		: 012408050008	
REFERRED BY	:	REGISTRATION DATE		:05/Aug/202407:16AM	
BARCODE NO.	: 01514474			: 05/Aug/2024 07:17AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE : 05/Aug/202		: 05/Aug/2024 09:25AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
T 4 N					
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRINO		Biological Reference interval	
	Т		DLOGY	Biological Reference interval	
TRIIODOTHYRONIN		ENDOCRINO HYROID FUNCTION 0.526	DLOGY	Biological Reference interval	
TRIIODOTHYRONINI by cmia (chemilumit THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS	ENDOCRINO HYROID FUNCTION 0.526 SAY) 5.04	DLOGY TEST: TOTAL		
TRIIODOTHYRONINI by CMIA (CHEMILUMII THYROXINE (T4): SE by CMIA (CHEMILUMII THYROID STIMULAT	e (T3): serum <i>nescent microparticle immunoas</i> RUM	ENDOCRINO HYROID FUNCTION 0.526 SAY) 5.04	DLOGY TEST: TOTAL ng/mL	0.35 - 1.93	
TRIIODOTHYRONINI by CMIA (CHEMILUMII THYROXINE (T4): SE by CMIA (CHEMILUMII THYROID STIMULAT by CMIA (CHEMILUMI	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS RUM NESCENT MICROPARTICLE IMMUNOAS FING HORMONE (TSH): SERUM INESCENT MICROPARTICLE	ENDOCRINO HYROID FUNCTION 0.526 SAY) 5.04 SAY)	DLOGY TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60	

trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or 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).

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.
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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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

	Chairman & Consultant Pat	6//	(Pathology) Pathologist
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Test Name	Val	ue Unit	Biological Reference interval

		Value	Unit		Biological Reference interva
0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
RECO	MMENDATIONS 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			
	0.92 - 2.28 0.35 - 1.93 0.35 - 1.93 RECO 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 0.35 - 1.93 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LE 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PRECOMMENDATIONS DURING PRECOMMENDATIONS DURING PRECOMMENDATIONS DURING PRECOMMENDATIONS DURING PRECOMMENDATIONS DURING PR	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.60 - 5.50 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.50 - 5.50 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

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.

Dr. Vinay Chopra

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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