



	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)		m Chopra D (Pathology) nt Pathologist		
NAME	: Mrs. GEETA ARYA					
AGE/ GENDER	: 43 YRS/FEMALE	P	ATIENT ID	: 1793763		
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012503160065		
REFERRED BY	:	R	EGISTRATION DATE	: 16/Mar/2025 02:54 PM		
BARCODE NO.	:01527216		OLLECTION DATE	: 16/Mar/2025 02:56PM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 16/Mar/2025 06:08PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A					
Test Name		Value	Unit	Biological Referen	ce interval	
TRIIODOTHYRONI		1.671	ION TEST: TOTAL ng/mL	0.35 - 1.93		
THYROXINE (T4): S		13.32 ^H	µgm/dI	4.87 - 12.60		
	TING HORMONE (TSH): SERU		µIU/mL	0.35 - 5.50		
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE					
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. TSI	I stimulates the produ	uction and secretion of the r	om. The variation is of the order of 50%.H netabolically active hormones, thyroxine ner underproduction (hypothyroidism) of	e (T4)and	
CLINICAL CONDITION	T3		T4	TSH		
Primary Hypothyroidis				Increased (Significantly)		
Subclinical Hypothyroi	dism: Normal or Low I	Normal No	rmal or Low Normal	High		
5. 5						
Primary Hyperthyroidis Subclinical Hyperthyro			Increased rmal or High Normal	Reduced (at times undetectable) 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 (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	





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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 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 ***





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