



		v & Microbiology) onsultant Pathologist		m Chopra D (Pathology) nt Pathologist	
NAME	: Mrs. PREM SETHI				
AGE/ GENDER	: 68 YRS/FEMALE]	PATIENT ID	: 1808192	
COLLECTED BY	: SURJESH]	REG. NO./LAB NO.	:012503270044	
REFERRED BY	:]	REGISTRATION DATE	: 27/Mar/2025 11:35 AM	
BARCODE NO.	:01527876	(COLLECTION DATE	: 27/Mar/2025 11:48AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 27/Mar/2025 01:30PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Refer	ence interval
		ENDOCR	RINOLOGY		
	T	HYROID FUNCT	TION TEST: TOTAL	L	
TRIIODOTHYRONINE (T3): SERUM 0.8. by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) 0.8.			ng/mL	0.35 - 1.93	
THYROXINE (T4): by CMIA (CHEMILUMIN	SERUM IESCENT MICROPARTICLE IMMUN	7.38 DASSAY)	µgm/dI	4.87 - 12.60	
	ATING HORMONE (TSH): S		μIU/mI	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:		JASSAT)			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations	TSH stimulates the prod	duction and secretion of the	<i>pm. The variation is of the order of 50</i> metabolically active hormones, thyro her underproduction (hypothyroidism	xine (T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis	m· Reduced		Reduced	Increased (Significantly)	

CLINICAL CONDITION	Т3	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 (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	





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Test Name			Value	Unit	:	Biological Reference interval
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	
	RECOM	MENDATIONS OF TSH LE	VELS 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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