



	Dr. Vinay Ch MD (Pathology & Chairman & Cor		ME	m <b>Chopra</b> D (Pathology) ht Pathologist	
NAME	: Mrs. PARVEEN WALIA				
AGE/ GENDER	: 58 YRS/FEMALE	]	PATIENT ID	: 1797307	
COLLECTED BY	: SURJESH	]	REG. NO./LAB NO.	:012503190013	
REFERRED BY	:	]	REGISTRATION DATE	: 19/Mar/2025 08:49 AM	
BARCODE NO.	:01527374		COLLECTION DATE	: 19/Mar/2025 08:50AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	J	REPORTING DATE	: 19/Mar/2025 01:05PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Refere	ence interval
TRIIODOTHYRONI	NE (T3): SERUM	1.393	F <b>ION TEST: TOTAL</b> ng/mL	0.35 - 1.93	
by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSA) THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSA)		12.17	µgm/dI	4.87 - 12.60	
THYROID STIMULA	TING HORMONE (TSH): SERI	JM 0.058 <sup>L</sup>	µIU/mI	0.35 - 5.50	
INTERPRETATION:	RADENSITIVE				
day has influence on the l triiodothyronine (T3).Fai	circadian variation, reaching peak level measured serum TSH concentrations. T lure at any level of regulation of the h roidism) of T4 and/or T3.	SH stimulates the proc	duction and secretion of the i	metabolically active hormones, thyro:	xine (T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis				Increased (Significantly)	
Subclinical Hypothyroi		Normal N	lormal or Low Normal	High	
Primary Hyperthyroidis	m: Increased		Increased	Reduced (at times undetectable)	
Subclinical Hyperthyro			lormal 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
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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NAME	: Mrs. PARVEEN WALIA		
AGE/ GENDER	: 58 YRS/FEMALE	PATIENT ID	: 1797307
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Test Name		Value	Unit		Biological Reference interval	
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		
RECON	/IMENDATIONS OF TSH LF	VELS DURING PRE	GNANCY ( µIU/mL)			
1st Trimester			0.10 - 2.50			
2nd Trimester			0.20 - 3.00			
3rd Trimester			0.30 - 4.10			
	0.35 - 1.93 0.35 - 1.93 RECOM 1st Trimester 2nd Trimester	0.35 - 1.93 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LE 1st Trimester 2nd Trimester	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 PRE- 1st Trimester           2nd Trimester         2	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 (µU/mL)           1st Trimester         0.10 - 2.50           2nd Trimester         0.20 - 3.00	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.

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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