



I BALA ALE STIC LAB HOLSON ROAD, AMBALA CANT Value	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE T	: 1550593 : 012407160031 : 16/Jul/2024 10:19 AM : 16/Jul/2024 10:22AM : 16/Jul/2024 12:19PM Biological Reference interval
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		Biological Reference interval
Value	Unit	Biological Reference interval
		Biological Reference interval
ENDC	CRINOLOGY	
THYROID FUI	NCTION TEST: TOTAL	
0.968 RTICLE IMMUNOASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): SERUM 6.32 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		4.87 - 12.60
(TSH): SERUM 2.725 RTICLE IMMUNOASSAY)	µIU/mL	0.35 - 5.50
	THYROID FUI 0.968 RTICLE IMMUNOASSAY) CSTICLE IMMUNOASSAY) SERUM 2.725 RTICLE IMMUNOASSAY) SERUM 2.725 RTICLE IMMUNOASSAY) Paching peak levels between 2-4 a.m. concentrations.TSH stimulates the pegulation of the hypothalamic-pituit	THYROID FUNCTION TEST: TOTAL0.968ng/mL6.32µgm/dLRTICLE IMMUNOASSAY)1.725TSH): SERUM2.725

CLINICAL CONDITION	T3	T4	TSH			
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)			
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High			
imary 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).

3. 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.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROX	INE (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 Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. SHASHI BALA		
AGE/ GENDER	: 55 YRS/FEMALE	PATIENT ID	: 1550593
COLLECTED BY	:	REG. NO./LAB NO.	: 012407160031
REFERRED BY	:	REGISTRATION DATE	: 16/Jul/2024 10:19 AM
BARCODE NO.	:01513244	COLLECTION DATE	: 16/Jul/2024 10:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 16/Jul/2024 12:19PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

rest Nume		Value		biological Neter crice into	
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	
RECC	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		
	0.92 - 2.28 0.35 - 1.93 0.35 - 1.93 RECC 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 LI 1st Trimester	0.74 - 2.40 6 - 12 Months 7.10 - 16.16 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 PREC 1st Trimester 2nd Trimester	0.74 - 2.40 6 - 12 Months 7.10 - 16.16 6 - 12 Months 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 (μU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	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 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, 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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