



	MD (Pathology & N	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n Chopra (Pathology) Pathologist
NAME	: Mrs. RAJSHI			
AGE/ GENDER	: 32 YRS/FEMALE		PATIENT ID	: 1458865
COLLECTED BY	:		REG. NO./LAB NO.	: 012409120021
REFERRED BY	:		REGISTRATION DATE	: 12/Sep/2024 09:14 AM
BARCODE NO.	:01516811		COLLECTION DATE	: 12/Sep/2024 09:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Sep/2024 11:22AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	TH	IYROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONINE (T3): SERUM 1.052			ng/mL	0.35 - 1.93
	IESCENT MICROPARTICLE IMMUNOASS			4.07 12.40
THYROXINE (T4): SE by CMIA (CHEMILUMIN	KUIVI IESCENT MICROPARTICLE IMMUNOASS	5.75 SAY)	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	3.182	μlU/mL	0.35 - 5.50
	IESCENT MICROPARTICLE IMMUNOASS	SAY)		
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
TSH levels are subject to	circadian variation, reaching peak levels b	etween 2-4 a.m an	nd at a minimum between 6-10 pi	m. The variation is of the order of 50%.Hence time of th
	measured serum TSH concentrations.TSH lure at any level of regulation of the hyperature of the hypera			etabolically active hormones, thyroxine (T4)and
	roidism) of T4 and/or T3.	omaiamic-pitultai	y-thyroid axis will result ill eithe	

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 (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





IFIED LAB			EXCELLENCE IN HEALTHCARE & DIAGNOSTICS				
Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist			Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist				
: Mrs. RAJS	HI						
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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	
	RECO	OMMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (µIU/mL)		
1st Trimester						
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, 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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