



	MD (Pa	i nay Chopra thology & Microbiology an & Consultant Patholo)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
NAME	: Miss. GARIMA						
AGE/ GENDER	: 25 YRS/FEMALE		PATIENT ID	::	655095		
COLLECTED BY	:		REG. NO./LAB NO.	: (012410280036		
REFERRED BY	:		REGISTRATION DATE		: 28/Oct/2024 11:31 AM		
BARCODE NO.	:01519699		COLLECTION DATE	E : 2	28/Oct/2024 11:36AM		
CLIENT CODE.	: KOS DIAGNOSTIC L	AB	REPORTING DATE		: 28/Oct/2024 12:54PM		
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CAN	ТТ				
Test Name		Value	Uni	t	Biological Reference interval		
		ENDO	OCRINOLOGY				
		THYROID FU	NCTION TEST: TOT	ГAL			
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		0.98 IMMUNOASSAY)	ng/	/mL	0.35 - 1.93		
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		10.2 IMMUNOASSAY)	μgr	m/dL	4.87 - 12.60		
THYROID STIMULATING HORMONE (TSH): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			μΙυ	J/mL	0.35 - 5.50		
3rd GENERATION, ULT <u>INTERPRETATION</u> :		,					
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concer	<i>trations</i> . TSH stimulates the	e production and secretion o	of the metabo	e variation is of the order of 50% Hence time of th lically active hormones, thyroxine (T4)and erproduction (hypothyroidism) or		
CLINICAL CONDITION		T3	Τ4		TSH		
Primary Hypothyroidis		Reduced	Reduced	Increa	sed (Significantly)		
Subclinical Hypothyroi	dism: No	ubclinical Hypothyroidism: Normal or Low Normal Normal or Low Normal			High		

LIMITATIONS:-	

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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	

Increased

Normal or High Normal





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Miss. GARIMA			
AGE/ GENDER	: 25 YRS/FEMALE	PATIENT ID	: 1655095	
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Test Name		Value Unit		Biological Reference interva		
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 LI	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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