



				m Chopra D (Pathology) nt Pathologist	
NAME	: Mrs. PADMINI			100.000	
AGE/ GENDER	: 27 YRS/FEMALE		ENT ID	: 1684636	
COLLECTED BY	:		NO./LAB NO.	: 012411280031	
REFERRED BY	:		STRATION DATE	: 28/Nov/2024 12:02 PM	
BARCODE NO.	: 01521604		ECTION DATE	: 28/Nov/2024 12:02PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 28/Nov/2024 12:18PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTI			
Test Name		Value	Unit	Biological Reference interval	
2) Nutritional deficie 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemoglo POLYCYTHEMIA (INCF 1) People in higher a 2) Smoking (Seconda)	matic injury, surgery, bleedin ncy (iron, vitamin B12, folate) lems (replacement of bone ma d blood cell synthesis by chem obin structure (sickle cell aner REASED HAEMOGLOBIN): Ititudes (Physiological)	arrow by cancer) otherapy drugs mia or thalassemia).			
 4) Advanced lung dise 5) Certain tumors 6) A disorder of the b 7) Abuse of the drug chemically raising the 	ease (for example, emphysema one marrow known as polycyt	a) :hemia rubra vera, letes for blood doping purg		amount of oxygen available to the body by	

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	MD (Pathol	/ Chopra ogy & Microbiology) & Consultant Patholog			
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REFERRED BY	:		REGISTRATION DATE	: 28/Nov/2024 12:02 PM	
BARCODE NO.	:01521604		COLLECTION DATE	: 28/Nov/2024 12:02PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 28/Nov/2024 02:39PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANT	Т		
Test Name		Value	Unit	Biological Refer	rence interval
		ENDO	CRINOLOGY		
		THYROID FUN	CTION TEST: TOTAL	L	
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		0.895 UNOASSAY)	ng/mI	0.35 - 1.93	
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSA)		8.46 UNOASSAY)	μgm/c	IL 4.87 - 12.60	
			µIU/m	L 0.35 - 5.50	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ESCENT MICROPARTICLE IMM RASENSITIVE	UNUASSAY)			
INTERPRETATION:					
day has influence on the I	measured serum TSH concentrati ure at any level of regulation of	ons. TSH stimulates the	production and secretion of the	0 pm. The variation is of the order of 50 metabolically active hormones, thyro ther underproduction (hypothyroidisr	oxine (T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidisr	n: Redu	uced	Reduced	Increased (Significantly)	
Subclinical Hypothyroid	dism: 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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	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist			
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Test Name			Value	Unit	t	Biological Reference interval
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	
	RECON	IMENDATIONS 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		

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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