



				m Chopra D (Pathology) Int Pathologist		
NAME	: Mr. DUMMY					
AGE/ GENDER	: 33 YRS/MALE		PATIENT ID	: 1551785		
COLLECTED BY	:		REG. NO./LAB NO.	: 012407170044		
REFERRED BY	:		REGISTRATION DATE	: 17/Jul/2024 12:31 PM		
BARCODE NO.	:01513320		COLLECTION DATE	: 17/Jul/2024 12:40PM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 17/Jul/2024 12:41PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
HAEMOGLOBIN (HB		13.5	gm/dL	12.0 - 17.0		
			ATOLOGY Globin (HB)			
)	13.5	gm/dL	12.0 - 17.0		
by CALORIMETRIC						
<u>INTERPRETATION:-</u> Hemoglobin is the pr	otein molecule in red blood	cells that carries oxyg	en from the lungs to the b	odys tissues and returns carbon dioxide from th		
tissues back to the lu	ungs. vel is referred to as ANEMIA o	or low rod blood coup	+			
ANEMIA (DECRESED	HAEMOGLOBIN):					
1) Loss of blood (trat	umatic injury, surgery, bleedi	ing, colon cancer or s	tomach ulcer)			
3) Bone marrow prob	ency (iron, vítamin B12, folate plems (replacement of bone r	e) marrow by cancer)				
4) Suppression by re	d blood cell synthesis by che	motherapy drugs				
5) Kidney failure	akin atmusture (siekle sell an	omio on the lessentia)				
POLYCYTHEMIA (INCI	obin structure (sickle cell an REASED HAEMOGLOBIN):	emia or thatassemia)				
1) People in higher a	altitudes (Physiological)					
2) Smoking (Seconda	ry Polycythemia)	hin due to increased	hoomoontestion			
	uces a falsely rise in hemoglo ease (for example, emphyser		naemoconcentration			
5) Certain tumors						
6) A disorder of the k	oone marrow known as polyc	ythemia rubra vera,	na nurnocos (incroasing th	e amount of oxygen available to the body by		
i Abuse of the drug	erythiopoetin (Epogen) by at	ineres for blood dobl	ing purposes (increasing the	e 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.

chemically raising the production of red blood cells).

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	MD (Pathology & M	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n Chopra (Pathology) Pathologist
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Test Name		Value	Unit	Biological Reference interval
		ENDOCR	INOLOGY	
	ТН	YROID FUNCT	ION TEST: TOTAL	
TRIIODOTHYRONINE (T3): SERUM 1.368		1.368	ng/mL	0.35 - 1.93
by CMIA (CHEMILUMIN THYROXINE (T4): SE	IESCENT MICROPARTICLE IMMUNOASSA	4 <i>Y)</i> 9.28	Light fill	4.87 - 12.60
()	KUIVI IESCENT MICROPARTICLE IMMUNOASSA		µgm/dL	4.87 - 12.80
	ING HORMONE (TSH): SERUM	1.944	μlU/mL	0.35 - 5.50
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	IESCENT MICROPARTICLE IMMUNOASSA	4 <i>Y)</i>		
INTERPRETATION:	KASENSITIVE			
	circadian variation, reaching peak levels be	tween 2-4 a.m and a	at a minimum between 6-10 pi	m. The variation is of the order of 50%.Hence time of
	measured serum TSH concentrations.TSH s lure at any level of regulation of the hypo			etabolically active hormones, thyroxine (T4) and
inouolityionne (13).Fal	roidism) of T4 and/or T3.	rinalahing-pituntal y-t	inyi olu akis wili result ili ettile	

CLINICAL CONDITION	T3	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)		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





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L			

Test Name			Value	Value Unit		Biological Reference interva
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	DMMENDATIONS 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, 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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