



				n Chopra 9 (Pathology) t Pathologist
NAME	: Mrs. PRACHI			
AGE/ GENDER	: 47 YRS/FEMALE		PATIENT ID	: 1565033
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407300015
REFERRED BY	: CENTRAL PHOENIX CLUB	(AMBALA CANTT)	REGISTRATION DATE	: 30/Jul/2024 08:27 AM
BARCODE NO.	:01514110		COLLECTION DATE	: 30/Jul/2024 08:36AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 30/Jul/2024 08:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOGLOBIN (HB)	12.9	gm/dL	12.0 - 16.0
			globin (HB)	
by CALORIMETRIC		12.9	gin/uL	12.0 - 10.0
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu		lls that carries oxy	gen from the lungs to the b	odys tissues and returns carbon dioxide from th
A low hemoglobin lev	vel is referred to as ANEMIA or	low red blood cour	nt.	
ANEMIA (DECRESED 1) Loss of blood (trai	HAEMOGLOBIN): umatic injury, surgery, bleeding	n, colon cancer or s	tomach ulcer)	
2) Nutritional deficie	ncy (iron, vitamin B12, folate)			
4) Suppression by re	olems (replacement of bone ma d blood cell synthesis by chem	otherapy drugs		
5) Kidney failure				
POLYCYTHEMIA (INCI	obin structure (sickle cell aner REASED HAEMOGLOBIN):	ma or manasserma)		
 People in higher a Smoking (Seconda) 	Ititudes (Physiological)			
3) Dehydration prod	uces a falsely rise in hemoglob	in due to increased	haemoconcentration	
4) Advanced lung dis5) Certain tumors	ease (for example, emphysema			
6) A disorder of the k	oone marrow known as polycyt	hemia rubra vera,		
7) Abuse of the drug	erythropoetin (Epogen) by ath	etes for blood dopi	ing purposes (increasing the	e amount of oxygen available to the body by

chemically raising the production of red blood cells).

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	Biological Reference interval
	CLI		STRY/BIOCHEMISTR	Y
		GLUCOS	E FASTING (F)	
	F): Plasma	91.02	mg/dL	NORMAL: < 100.0

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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	PATIENT ID	: 1565033	
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		: 30/Jul/2024 08:36AM	
NT CODE. : KOS DIAGNOSTIC LAB		: 30/Jul/2024 11:30AM	
D, AMBALA CANTT			
Value	Unit	Biological Reference interval	
ENDOC	RINOLOGY		
THYROID FUN	CTION TEST: TOTAL		
1.158 DASSAY)	ng/mL	0.35 - 1.93	
12.39 DASSAY)	μgm/dL	4.87 - 12.60	
	μIU/mL	0.35 - 5.50	
	D, AMBALA CANTT Value ENDOC THYROID FUNI (1.158 DASSAY) 12.39 DASSAY) 1.921 DASSAY)	COLLECTION DATE REPORTING DATE D, AMBALA CANTT Value Unit ENDOCRINOLOGY THYROID FUNCTION TEST: TOTAL 1.158 ng/mL 0ASSAY) 12.39 µgm/dL 0ASSAY) 12.39 µgm/dL	

trilodothyronine (T3).Failure at any level of regulation of the hy overproduction(hyperthyroidism) of T4 and/or T3.

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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Dr. Vinay Chopra



Dr. Yugam Chopra

	MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology) Pathologist
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Test Name			Value Uni		Biological Reference inter	
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	
	RECOM	IMENDATIONS OF TSH LE	VELS 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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