PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mrs. RAMANDEEP KAUR				
AGE/ GENDER	: 38 YRS/FEMALE	PATIENT ID	: 1480800		
COLLECTED BY	:	REG. NO./LAB NO.	: 122409220004		
REFERRED BY	:	REGISTRATION DATE	: 22/Sep/2024 11:51 AM		
BARCODE NO.	: 12504864	COLLECTION DATE	: 22/Sep/2024 11:55AM : 22/Sep/2024 12:02PM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE			
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	' - HARYANA			
Test Name	Value	e Unit	Biological Reference interval		
	HA	EMATOLOGY			
		MOGLOBIN (HB)			
HAEMOGLOBIN (HB) 10.7 ^L	gm/dL	12.0 - 16.0		
by CALORIMETRIC					
<u>INTERPRETATION:-</u> Hemoglobin is the pr	otein molecule in red blood cells that carries	oxygen from the lungs to the b	odys tissues and returns carbon dioxide from t		
tissues back to the lu	ings.	50			
A low hemoglobin lev	vel is referred to as ANEMIA or low red blood	count.			
ANEMIA (DECRESED	Imatic injury, surgery, bleeding, colon cancer	r or stomach ulcer)			
2) Nutritional deficie	ncy (iron, vitamin B12, folate)				
 Bone marrow prob 	plems (replacement of bone marrow by cance	r)			
4) Suppression by ree 5) Kidney failure	d blood cell synthesis by chemotherapy drug	S			
6) Abnormal hemoal	obin structure (sickle cell anemia or thalasse	emia).			
POLYCYTHEMIA (INČI	REASED HAEMOGLOBIN):	.,			
1) People in higher a	Ititudes (Physiological)				
2) Smoking (Seconda 3) Debydration produ	ry Polycythemia) uces a falsely rise in hemoglobin due to incre	ased baemoconcentration			
4) Advanced lung dise	ease (for example, emphysema)				
5) Certain tumors					
	oone marrow known as polycythemia rubra ve				
i) Abuse of the drug	erythropoetin (Epogen) by athletes for blood	uoping purposes (increasing the	e amount of oxygen available to the body by		

/) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the amount of oxygen availab chemically raising the production of red blood cells).

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600, REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	UTE REPO	RTING DATE	: 22/Sep/2024 05:10PM		
CLIENT ADDRESS	CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA					
Test Name		Value	Unit	Biological Reference interval		
		ENDOCRINO	LOGY			
	ТНҮ	ROID FUNCTION	TEST: TOTAL			
TRIIODOTHYRONINI	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY	0.917 v)	ng/mL	0.35 - 1.93		
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		8.11 v)	µgm/dL	4.87 - 12.60		
	TING HORMONE (TSH): SERUM	9.715 ^H	µIU/mL	0.35 - 5.50		

INTERPRETATION:

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or 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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Test Name		Value	e 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		
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREC	SNANCY (μIU/mL)	•		
1st Trimester			0.10 - 2.50				l
2nd Trimester			0.20 - 3.00				
3rd Trimester			0.30 - 4.10				1

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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