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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. MANPREET KAUR					
AGE/ GENDER	: 38 YRS/FEMALE	PAT	IENT ID	: 1702192		
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>		: <b>122412180006</b> : 18/Dec/2024 10:16 AM : 18/Dec/2024 10:37AM		
REFERRED BY : RI		REG	ISTRATION DATE			
BARCODE NO.	CODE NO. : 12506197 COLLECTION DATE		LECTION DATE			
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	UTE <b>REP</b>	ORTING DATE	: 18/Dec/2024 11:43AM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HARYAN	A			
Test Name		Value	Unit	Biological Reference interval		
		HAEMATO	LOGY			
		HAEMOGLOB	SIN (HB)			
HAEMOGLOBIN (H	B)	10.4 <sup>L</sup>	gm/dL	12.0 - 16.0		
INTERPRETATION:-						
Hemoglobin is the pr		t carries oxygen fro	om the lungs to the bo	odys tissues and returns carbon dioxide from t		
tissues back to the lu	ings. vel is referred to as ANEMIA or low re	d blood count				
ANEMIA (DECRESED						
1) Loss of blood (trau	umatic injury, surgery, bleeding, colo	n cancer or stomac	; <mark>h ulcer</mark> )			
	ncy (iron, vitamin B12, folate) plems (replacement of bone marrow b	ov cancer)				
4) Suppression by rea	d blood cell synthesis by chemothera	ipy drugs				
5) Kidney failure						
	obin structure (sickle cell anemia or	thalassemia).				
1) People in higher a	REASED HAEMOGLOBIN): Ititudes (Physiological)					
2) Smoking (Seconda	ry Polycythemia)					
3) Dehydration produ	uces a falsely rise in hemoglobin due	to increased haem	oconcentration			
	ease (for example, emphysema)					
5) Certain tumors 6) A disorder of the h	oone marrow known as polycythemia	rubra vera				
				amount of ovugan available to the body by		

7) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the 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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Test Name		Value	Unit	Biological Reference interval		
	CLINI	CAL CHEMIS	<b>FRY/BIOCHEMIST</b>	RY		
		LIPID PRO	FILE : BASIC			
CHOLESTEROL TO by CHOLESTEROL O		192.46	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0		
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM PHATE OXIDASE (ENZYMATIC)	194.39 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0		
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM TON	56.58	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0		
LDL CHOLESTERO		97	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0		
NON HDL CHOLES' by calculated, spe		135.88 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0		
VLDL CHOLESTER	OL: SERUM ECTROPHOTOMETRY	38.88	mg/dL	0.00 - 45.00		
TOTAL LIPIDS: SEF by CALCULATED, SPE	RUM	579.31	mg/dL	350.00 - 700.00		
CHOLESTEROL/HI		3.4	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0		

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**NOT VALID FOR MEDICO LEGAL PURPOSE** 

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Test Name	Value	Unit	<b>Biological Reference interval</b>

			8	
			MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0	
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.71	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED. SPECTROPHOTOMETRY	3.44	RATIO	3.00 - 5.00	

#### **INTERPRETATION:**

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for

Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL &Non HDI

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement



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Test Name		Value	Unit	<b>Biological Reference interva</b>		
Test Name		Value ENDOCRINO		Biological Reference interva		
Test Name			LOGY	Biological Reference interva		
TRIIODOTHYRONIN	THYRO	ENDOCRINO	LOGY	<b>Biological Reference interva</b> 0.35 - 1.93		
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S	<b>THYRO</b> NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRINO DID FUNCTION	LOGY TEST: TOTAL	U U		
TRIIODOTHYRONII by cmia (chemilumin THYROXINE (T4): S by cmia (chemilumin THYROID STIMULA	THYRO NE (T3): SERUM escent microparticle immunoassay) ERUM escent microparticle immunoassay) TING HORMONE (TSH): SERUM escent microparticle immunoassay)	ENDOCRINO DID FUNCTION 1.36	LOGY TEST: TOTAL ng/mL	0.35 - 1.93		

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 triiodothyronine (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 (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	





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Test Name		Value	Unit	t Biologica		l 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		
	RECOM	IMENDATIONS OF TSH LE	EVELS DURING PREC	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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