PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. PREETI CHOPRA					
AGE/ GENDER			PATIENT ID	: 1560084		
COLLECTED BY			REG. NO./LAB NO.	: 122412300012		
REFERRED BY : BARCODE NO. : 12506343		REGISTRATION DATE		: 30/Dec/2024 11:56 AM		
		(COLLECTION DATE	: 30/Dec/2024 12:05PM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE REPORTING DATE		: 30/Dec/2024 04:34PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	ALA CITY - HARYANA				
Test Name		Value	Unit	Biological Reference interval		
		НАЕМА	TOLOGY			
	СОМР	LETE BLO	OD COUNT (CBC)			
RED BLOOD CELLS	(RBCS) COUNT AND INDICES		. ,			
HAEMOGLOBIN (H		8.2 ^L	gm/dL	12.0 - 16.0		
RED BLOOD CELL (RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	3.84	Millions/o	cmm 3.50 - 5.00		
•	UTOMATED HEMATOLOGY ANALYZER	25.1 ^L	%	37.0 - 50.0		
-	UTOMATED HEMATOLOGY ANALYZER	74.8 ^L	fL	80.0 - 100.0		
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	23.4 ^L	pg	27.0 - 34.0		
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.3 ^L	g/dL	32.0 - 36.0		
by CALCULATED BY A	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	18.4 ^H	%	11.00 - 16.00		
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	51.2	fL	35.0 - 56.0		
MENTZERS INDEX		19.48	RATIO	BETA THALASSEMIA TRAIT: 13.0		
				IRON DEFICIENCY ANEMIA: >13.0		
GREEN & KING INI by calculated	DEX	39.28	RATIO	BETA THALASSEMIA TRAIT: 65.0		
				IRON DEFICIENCY ANEMIA: 65.0		
WHITE BLOOD CE	LLS (WBCS)					
TOTAL LEUCOCYTE	E COUNT (TLC) / by sf cube & microscopy	11300 ^H	/cmm	4000 - 11000		
NUCLEATED RED E	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00		
	LOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %		





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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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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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by SF cube & microscopy	73 ^H	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	23	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by SF cube & microscopy	8249 ^H	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	2599	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by SF cube & microscopy	113	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	339	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	275000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.36	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	145000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	52.7 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16	%	15.0 - 17.0



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Test Name Value Unit **Biological Reference interval**

RECHECKED.







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NAME : Mrs. PREETI CHOPRA **AGE/ GENDER** : 42 YRS/FEMALE **PATIENT ID** :1560084 **COLLECTED BY** REG. NO./LAB NO. :122412300012 **REFERRED BY REGISTRATION DATE** : 30/Dec/2024 11:56 AM **BARCODE NO. COLLECTION DATE** : 30/Dec/2024 12:05PM :12506343 CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE **REPORTING DATE** : 30/Dec/2024 04:52PM **CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit Test Name **Biological Reference interval ERYTHROCYTE SEDIMENTATION RATE (ESR)** ERYTHROCYTE SEDIMENTATION RATE (ESR) mm/1st hr 0 - 20 26^H by RED CELL AGGREGATION BY CAPILLARY PHOTOMETRY INTERPRETATION: 1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and autoimmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. 2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such as C-reactive protein 3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus **CONDITION WITH LOW ESR** A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Šome changes in red cell shape (such

as sickle cells in sickle cell anaemia) also lower the ESR. NOTE:

1. ESR and C - reactive protein (C-RP) are both markers of inflammation.

2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
4. Drugs such as devicent matching and units of two types of proteins and units of the temporary elevations.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARY	ANA		
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRI	NOLOGY		
	THYRO	ENDOCRI DID FUNCTI	NOLOGY ON TEST: TOTAL		
				0.35 - 1.93	
THYROXINE (T4): S	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCTI	ON TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM Iescent microparticle immunoassay) SERUM	01D FUNCTI 0.91	ON TEST: TOTAL ng/mL		
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM MESCENT MICROPARTICLE IMMUNOASSAY) SERUM MESCENT MICROPARTICLE IMMUNOASSAY) NTING HORMONE (TSH): SERUM MESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCTI 0.91 3.9 ^L	ON TEST: TOTAL ng/mL μgm/dL	4.87 - 12.60	

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	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal Normal or Low Norma		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	Biological Reference interva	
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	VELS 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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