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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. SURINDER KUMAR					
AGE/ GENDER: 40 YRS/MALECOLLECTED BY:REFERRED BY:BARCODE NO.: 12504538			PATIENT ID	: 1330204		
		REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE		: 122409070005		
				: 07/Sep/2024 09:42 AM : 07/Sep/2024 09:44AM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - H	ARYANA			
Test Name		Value	Unit	Biological Reference interval		
		HAEN	/IATOLOGY			
	CON	/IPLETE BI	LOOD COUNT (CBC)			
RED BLOOD CELLS (F	BCS) COUNT AND INDICES					
HAEMOGLOBIN (HB)		14.1	gm/dL	12.0 - 17.0		
by CALORIMETRIC RED BLOOD CELL (RE	BC) COUNT	4.85	Millions/cr	mm 3.50 - 5.00		
	OCUSING, ELECTRICAL IMPEDENCE					
PACKED CELL VOLUN	NE (PCV) AUTOMATED HEMATOLOGY ANALYZER	39.7 ^L	%	40.0 - 54.0		
MEAN CORPUSCULAR VOLUME (MCV) by calculated by automated hematology analyzer		81.8	KR fL	80.0 - 100.0		
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)		29	pg	27.0 - 34.0		
-	UTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	35.5	g/dL	32.0 - 36.0		
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			11.00 1/ 00		
	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.5	%	11.00 - 16.00		
	ION WIDTH (RDW-SD)	42.7	fL	35.0 - 56.0		
MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	16.87	RATIO	BETA THALASSEMIA TRAIT: < 13.0		
by CALCULATED				IRON DEFICIENCY ANEMIA: >13.0		
GREEN & KING INDE	Х	22.71	RATIO	BETA THALASSEMIA TRAIT:<= 65.0		
WHITE BLOOD CELLS	<u>S (WBCS)</u>			IRON DEFICIENCY ANEMIA: > 65.0		
TOTAL LEUCOCYTE C		8500	/cmm	4000 - 11000		
	BY SF CUBE & MICROSCOPY					
DIFFERENTIAL LEUCO	<u>JUTTE COUNT (DLC)</u>	50	<u></u>	50.70		
NEUTROPHILS by FLOW CYTOMETRY	/ BY SF CUBE & MICROSCOPY	58	%	50 - 70		
LYMPHOCYTES		33	%	20 - 40		
by FLOW CYTOMETRY EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	C	%	1 6		
EUSINULUITS		2	70	1 - 6		



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CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMI		ALA CITY - H	ARYANA	Ĩ		
Test Name		Value	Unit	Biological Reference interval		
MONOCYTES		7	%	2 - 12		
BASOPHILS	y by sf cube & microscopy y by sf cube & microscopy /TES (WBC) COUNT	0	%	0 - 1		
ABSOLUTE NEUTRO	PHIL COUNT	4930	/cmm	2000 - 7500		
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		2805	/cmm	800 - 4900		
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		170	/cmm	40 - 440		
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		595	/cmm	80 - 880		
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		0	/cmm	0 - 110		
-	HER PLATELET PREDICTIVE MARKE	<u>RS.</u>				
PLATELET COUNT (P by hydro dynamic i	LT) FOCUSING, ELECTRICAL IMPEDENCE	205000	/cmm	150000 - 450000		
PLATELETCRIT (PCT) by HYDRO DYNAMIC I	FOCUSING, ELECTRICAL IMPEDENCE	0.23	%	0.10 - 0.36		
VEAN PLATELET VO	LUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0		
PLATELET LARGE CEI	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	75000	/cmm	30000 - 90000		
PLATELET LARGE CE by HYDRO DYNAMIC I	LL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	36.4	%	11.0 - 45.0		
•	TION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE JCTED ON EDTA WHOLE BLOOD	16.4	%	15.0 - 17.0		



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Test Name		Value	Unit	Biological Reference interval
	ERYTHF	OCYTE SEDIME	NTATION RATE (ESP	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	5	mm/1st h	r 0-20
mmune disease, but 2. An ESR can be affe	does not tell the health practition ected by other conditions besides in	er exactly where th	e inflammation is in the	on associated with infection, cancer and aut body or what is causing it. bically used in conjunction with other test su
vstemic lupus ervth	be used to monitor disease activity ematosus	y and response to t	herapy in both of the al	pove diseases as well as some others, such a
polycythaemia), sigi	en with conditions that inhibit the r	nt (leucocytosis), a	on of red blood cells, su and some protein abnoi	ich as a high red blood cell count rmalities. Some changes in red cell shape (su
NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected	e protein (C-RP) are both markers (es not change as rapidly as does CR I by as many other factors as is ESR , ed, it is typically a result of two typ	P, either at the star making it a better	marker of inflammation	it resolves.





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CLIENT CODE.	DE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE		:07/Sep/202402:33PM			
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYAN	A			
Test Name		Value	Unit	Biological Reference interval		
	THYR	ENDOCRINC				
TRIIODOTHYRONINI by CMIA (CHEMILUMIN		OID FUNCTION		0.35 - 1.93		
<i>by CMIA (CHEMILUMIN</i> THYROXINE (T4): SE	E (T3): SERUM <i>iescent microparticle immunoassay</i>) RUM	OID FUNCTION 1.69 6.21	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60		
by CMIA (CHEMILUMIN THYROXINE (T4): SE by CMIA (CHEMILUMIN THYROID STIMULAT	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY) RUM NESCENT MICROPARTICLE IMMUNOASSAY) ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOASSAY)	OID FUNCTION 1.69 6.21	I TEST: TOTAL ng/mL			

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 Unit		t 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		
	RECOM	MENDATIONS OF TSH LI	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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