

A PIONEER DIAGNOSTIC CENTRE

■ 0171-2532620, 8222896961 ■ pkrjainhealthcare@gmail.com

NAME : Mr. GURWINDER SINGH

AGE/ GENDER : 38 YRS/MALE **PATIENT ID** : 1575387

COLLECTED BY REG. NO./LAB NO. : 122408090001

REFERRED BY **REGISTRATION DATE** : 09/Aug/2024 08:26 AM BARCODE NO. : 12504062 **COLLECTION DATE** : 09/Aug/2024 03:30PM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 09/Aug/2024 03:47PM

CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

Test Name Value Unit **Biological Reference interval**

HAEMATOLOGY

COMPLETE BLOOD COUNT (CBC)

RED BLOOD CELLS (RBCS) COUNT AND INDICES

HAEMOGLOBIN (HB)	13.8	gm/dL	12.0 - 17.0
by CALORIMETRIC			
RED BLOOD CELL (RBC) COUNT	4.4	Millions/cmm	3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPE	DENCE		
PACKED CELL VOLUME (PCV)	39.6 ^L	%	40.0 - 54.0
by CALCULATED BY AUTOMATED HEMATOLOGY A			
MEAN CORPUSCULAR VOLUME (MCV)	89.9	fL	80.0 - 100.0
by CALCULATED BY AUTOMATED HEMATOLOGY A			
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	31.3	pg	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY A			
MEAN CORPUSCULAR HEMOGLOBIN CONC. (N		g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HEMATOLOGY A			
RED CELL DISTRIBUTION WIDTH (RDW-CV)	12.3	%	11.00 - 16.00
by CALCULATED BY AUTOMATED HEMATOLOGY A	NALYZER		
RED CELL DISTRIBUTION WIDTH (RDW-SD)	41.2	fL	35.0 - 56.0
by CALCULATED BY AUTOMATED HEMATOLOGY A	NALYZER		
MENTZERS INDEX	20.43	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED			IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	25.08	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED			65.0
			IRON DEFICIENCY ANEMIA: > 65.0

WHITE BLOOD CELLS (WBCS)

TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	14460 ^H	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



MICROSCOPY

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







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Test Name	Value	Unit	Biological Reference interval
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	90 ^H	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6 ^L	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	O _L	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	13014 ^H	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	868	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0_{Γ}	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	578	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	0 IRS.	/cmm	0 - 110
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	219000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.22	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	12	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	72000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	37.5	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.6	%	15.0 - 17.0



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Test Name Value Unit **Biological Reference interval**

RECHECKED

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ERYTHROCYTE SEDIMENTATION RATE (ESR)

ERYTHROCYTE SEDIMENTATION RATE (ESR)

0 - 20

by MODIFIED WESTERGREN AUTOMATED METHOD

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. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

- ESR and C reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 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.
- 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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Test Name Value Unit **Biological Reference interval**

IMMUNOPATHOLOGY/SEROLOGY

WIDAL SLIDE AGGLUTINATION TEST

SALMONELLA TYPHI O	1:80	TITRE	1:80
by SLIDE AGGLUTINATION			
SALMONELLA TYPHI H	1 : 40	TITRE	1:160
by SLIDE AGGLUTINATION			
SALMONELLA PARATYPHI AH	NIL	TITRE	1:160
by SLIDE AGGLUTINATION			
SALMONELLA PARATYPHI BH	NIL	TITRE	1:160
by SLIDE AGGLUTINATION			

INTERPRETATION:

- 1. Titres of 1:80 or more for "O" agglutinin is considered significant.
- 2. Titres of 1:160 or more for "H" agglutinin is considered significant.

LIMITATIONS:

- 1. Agglutinins usually appear by 5th to 6th day of illness of enteric fever, hence a negative result in early stage is inconclusive. The titre then rises till 3rd or 4th week, after which it declines gradually.
- 2.Lower titres may be found in normal individuals.
- 3.A single positive result has less significance than the rising agglutination titre, since demonstration of rising titre four or more in 1st and 3rd week is considered as a definite evidence of infection.
- 4.A simultaneous rise in H agglutinins is suggestive of paratyphoid infection.

- 1. Individuals with prior infection or immunization with TAB vaccine may develop an ANAMNESTIC RESPONSE (False-Positive) during an unrelated fever i.e High titres of antibodies to various antigens. This may be differentiated by repitition of the test after a week.
- 2. The anamnestic response shows only a transient rise, while in enteric fever rise is sustained.
- 3.H agglutinins tend to persist for many months after vaccination but O agglutinins tend to disappear sooner i.e within 6 months. Therefore rise in Oagglutinins indicate recent infection.

*** End Of Report ***



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