

# A PIONEER DIAGNOSTIC CENTRE

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

120 170

: Mr. VAIBHAV GARG **NAME** 

**AGE/ GENDER** : 17 YRS/MALE **PATIENT ID** : 1270779

**COLLECTED BY** REG. NO./LAB NO. : 122407150003

REFERRED BY **REGISTRATION DATE** : 15/Jul/2024 09:06 AM BARCODE NO. : 12503597 **COLLECTION DATE** : 15/Jul/2024 09:12AM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 15/Jul/2024 04:55PM

**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**

HAEMOCLORINI (HR)

HAEMOGLOBIN (HB)	15.6	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	5.33 <sup>H</sup>	Millions/cmm	3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV)	45.2	%	35.0 - 49.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV)	84.8	fL	80.0 - 100.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	29.3	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	34.5	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV)  by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	13	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD)  by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	43	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	15.91	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	20.71	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	7880	/cmm	4000 - 11000
DIFFERENTIAL LEUCOCYTE COUNT (DLC)		0.4	
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	69	%	50 - 70
LYMPHOCYTES  by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	24	%	20 - 40



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Test Name	Value	Unit	Biological Reference interval
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0 <sub>L</sub>	%	1-6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	7	%	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	5437	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1891	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	$0_{\Gamma}$	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	552	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	0 <b>RS.</b>	/cmm	0 - 110
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	147000 <sup>L</sup>	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.18	%	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	65000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	44	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.3	%	15.0 - 17.0



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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Value Unit Test Name **Biological Reference interval** 

### **ERYTHROCYTE SEDIMENTATION RATE (ESR)**

**ERYTHROCYTE SEDIMENTATION RATE (ESR)** 

mm/1st hr 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 auto-

immune 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.

### NOTE:

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

- 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.
   Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
   Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while assignment and quining may decrease it. aspirin, cortisone, and quinine may decrease it



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Test Name Value Unit **Biological Reference interval** 

### **CLINICAL CHEMISTRY/BIOCHEMISTRY**

### LIVER FUNCTION TEST (COMPLETE)

BILIRUBIN TOTAL: SERUM  by DIAZOTIZATION, SPECTROPHOTOMETRY	0.92	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.29	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.63	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	59.28 <sup>H</sup>	U/L	7.00 - 45.00
SGPT/ALT: SERUM	79.24 <sup>H</sup>	U/L	0.00 - 49.00
by IFCC, WITHOUT PYRIDOXAL PHOSPHATE			
AST/ALT RATIO: SERUM	0.75	RATIO	0.00 - 46.00
by CALCULATED, SPECTROPHOTOMETRY			
ALKALINE PHOSPHATASE: SERUM  by Para nitrophenyl phosphatase by amino methyl  propanol	128.31	U/L	50.00 - 370.00
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	38.29	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.16	gm/dL	6.20 - 8.00
ALBUMIN: SERUM	4.45	gm/dL	3.50 - 5.50
by BROMOCRESOL GREEN			
GLOBULIN: SERUM	2.71	gm/dL	2.30 - 3.50
by CALCULATED, SPECTROPHOTOMETRY			
A : G RATIO: SERUM	1.64	RATIO	1.00 - 2.00
by CALCULATED, SPECTROPHOTOMETRY			

### INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

#### **INCREASED:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0



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Test Name	Value	Unit	Biological Reference interval
INTRAHEPATIC CHOLESTATIS		> 1.5	
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increased)	
DEODE A OFF			

#### DECREASED:

- 1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)
- 2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

### PROGNOSTIC SIGNIFICANCE:

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NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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### IMMUNOPATHOLOGY/SEROLOGY

### TYPHOID COMBO SCREEN (TYPHOID ANTIGEN, IgG AND IgM): SERUM

**NEGATIVE** (-ve) **NEGATIVE (-ve)** TYPHOID ANTIGEN - SERUM

by ICT (IMMUNOCHROMATOGRAPHY)

TYPHI DOT ANTIBODY IgG **NEGATIVE** (-ve) **NEGATIVE (-ve)** by ICT (IMMUNOCHROMATOGRAPHY)

TYPHI DOT ANTIBODY IgM **NEGATIVE** (-ve) **NEGATIVE (-ve)** 

#### INTERPRETATION:

by ICT (IMMUNOCHROMATOGRAPHY)

Typhoid fever is a life threatening illness caused by the bacterium Salmonella typhus. The infection is acquired typically by ingestion. On reaching the gut, the bacilli attach themselves to the epithelial cells of the intestinal villi and penetrate the lamina and submucosa. They are then phagocytosed there by polymorphs and mesenteric lymph nodes, where they multiply and, via the thoracic duct, enter the blood stream. A transient bacteremia follows, during which the bacilli are seeded in the liver, gall bladder, spleen, bone marrow, lymph nodes, and kidneys, where further multiplication takes place. Towards the end of the incubation period, there occurs a massive bacteremia from these sites, heralding the onset of the clinical symptoms.

The diagnosis of typhoid consists of isolation of the bacilli and the demonstration of antibodies. The isolation of the bacilli is very time consuming and antibody detection is not very specific. Other tests include the Widal reaction. The advantage of this test is that it takes only 10-20 minutes and requires only a small amount of stool/serum/plasma to perform. It is the easiest and most specific method for detecting S. typhi infection.

**RELATIVE SENSTIVITY OF TYPHOID ANTIGEN DETECTION: 98.7% RELATIVE SPECIFICITY OF TYPHOID ANTIGEN DETECTION: 97.4%** 

### **DETECTABLE IGM RESPONSE:**

ONSET OF FEVER	PERCENT POSITIVE
4 - 6 DAYS	43.5
6 - 9 DAYS	92.9
> 9 DAYS	99.5

<sup>1.</sup> This is a solid phase, immunochromatographic ELISA assay that detects specific IgM and IgG Antibodies against the OUTER MEMBRAN PROTEIN(OMP) of the Salmonella species. IgM antibodies appear in the serum 2-3 days post infection and are indicative of a recent infection while the IgG antibodies appear later and are useful for presumptive diagnosis of Enteric fever if the patient presents more than a week after onset of symptoms.

Antibodies against Salmonella may cross react with other antibodies.



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<sup>2.</sup> This is a useful screening assay for the early detection of Enteric fever and has a high sensitivity. However the test has moderate specificity and false positive results may be obtained in the following situations:



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**Test Name** Value Unit **Biological Reference interval** 

Unrelated infections may lead to production of specific Salmonella antibodies if the patient has previously been exposed to Salmonella infection (ANAMNESTIC RESPONSE)

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NOTE:-Rapid blood culture performed during ft week of infection is highly recommended for confirmation of all IgM positive results. In case the patient has presented after the first week of infection, a thorough clinical correlation and confirmatory Widal test must be performed to establish the diagnosis.



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### **DENGUE FEVER ANTIGEN NS1 - ELISA (QUANTITATIVE)**

**DENGUE NS1 ANTIGEN** 0.22 **INDEX** NEGATIVE: < 0.90

BORDERLINE: 0.90 - 1.10 QUANTITATIVE

by ELISA (ENZYME LINKED IMMUNOSORBENT ASSAY) POSITIVE: >=1.10

**DENGUE NS1 ANTIGEN NEGATIVE** (-ve) **NEGATIVE** (-ve) **RESULT** 

by ELISA (ENZYME LINKED IMMUNOSORBENT ASSAY)

#### **INTERPRETATION**

DENGUE ANTIGEN NS1				
VALUE	UNIT	RESULT		
< 0.90	INDEX	NEGATIVE (-ve)		
0.90 - 1.10	INDEX	BORDERLINE		
>=1.10	INDEX	POSITIVE (+ve)		

<sup>1.</sup> The test becomes positive within 0-9 days of exposure to the virus (positive results are obtained within 24 hours of exposure in the overwhelming majority of patients) and generally remains positive till 15 days after exposure. The Dengue NS-1 antigen test is extremely useful in the early diagnosis of the disease thus helping in proper follow up and monitoring of the patients.

\*\*\* End Of Report \*\*\*



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<sup>2.</sup> The IgM antibodies on the other hand take a minimum of 5-10 days in primary infection and 4-5 days in secondary infections to test positive and hence are suitable for the diagnosis of dengue fever only when the fever is approximately one week old.