

(A Unit of KOS Healthcare)



Dr. Vinay Chopra
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Chairman & Consultant Pathologist

Dr. Yugam Chopra
MD (Pathology)
CEO & Consultant Pathologist

NAME : Mrs. AAROHI

AGE/ GENDER : 12 YRS/FEMALE **PATIENT ID** : 1708981

COLLECTED BY : REG. NO./LAB NO. : 012412250055

 REFERRED BY
 : 25/Dec/2024 08:27 PM

 BARCODE NO.
 : 01523004
 COLLECTION DATE
 : 25/Dec/2024 08:44PM

 CLIENT CODE.
 : KOS DIAGNOSTIC LAB
 REPORTING DATE
 : 25/Dec/2024 08:57PM

CLIENT ADDRESS: 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit Biological Reference interval

HAEMATOLOGY COMPLETE BLOOD COUNT (CBC)

RED BLOOD CELLS (RBCS) COUNT AND INDICES

HAEMOGLOBIN (HB) by CALORIMETRIC	12.1	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	4.71	Millions/cmm	3.50 - 5.50
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	38.8	%	35.0 - 49.0
MEAN CORPUSCULAR VOLUME (MCV) by calculated by automated hematology analyzer	82.4	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by calculated by automated hematology analyzer	25.8 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	31.3 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	13.5	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	41.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	17.49	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	23.72	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	5750	/cmm	4000 - 12000
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) %	NIL	%	< 10 %



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by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER



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Test Name	Value	Unit	Biological Reference interval			
DIFFERENTIAL LEUCOCYTE COUNT (DLC)						
NEUTROPHILS	66	%	50 - 70			
by FLOW CYTOMETRY BY SF CUBE & M		0/	00 45			
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & N	27 MICROSCOPY	%	20 - 45			
EOSINOPHILS	1 ^L	%	1 - 6			
by FLOW CYTOMETRY BY SF CUBE & M		0/	0. 10			
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & N	6	%	3 - 12			
BASOPHILS	0	%	0 - 1			
by FLOW CYTOMETRY BY SF CUBE & M			V 1			
IMMATURE GRANULOCTE (IG) %		%	0 - 5.0			
by FLOW CYTOMETRY BY SF CUBE & M ABSOLUTE LEUKOCYTES (WBC)						
			0000 7700			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & M		/cmm	2000 - 7500			
ABSOLUTE LYMPHOCYTE COUNT		/cmm	800 - 4900			
by FLOW CYTOMETRY BY SF CUBE & M	MICROSCOPY					
ABSOLUTE EOSINOPHIL COUNT	58	/cmm	40 - 440			
by FLOW CYTOMETRY BY SF CUBE & M		/	00 000			
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & M	MICROSCOPY 345	/cmm	80 - 880			
ABSOLUTE BASOPHIL COUNT	0	/cmm	0 - 110			
by FLOW CYTOMETRY BY SF CUBE & M						
ABSOLUTE IMMATURE GRANUL		/cmm	0.0 - 999.0			
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.						
		/	150000 450000			
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECT	229000 TRICAL IMPEDENCE	/cmm	150000 - 450000			
PLATELETCRIT (PCT)	0.26	%	0.10 - 0.36			
by HYDRO DYNAMIC FOCUSING, ELECT	TRICAL IMPEDENCE					
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECT		fL	6.50 - 12.0			
PLATELET LARGE CELL COUNT		/cmm	30000 - 90000			
by HYDRO DYNAMIC FOCUSING, ELECT		, Cililii	00000 00000			
PLATELET LARGE CELL RATIO (%	11.0 - 45.0			
by HYDRO DYNAMIC FOCUSING, ELECT	TRICAL IMPEDENCE					



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CLIENT CODE.

KOS Diagnostic Lab

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15.0 - 17.0

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: KOS DIAGNOSTIC LAB **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit **Biological Reference interval**

REPORTING DATE

%

PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit **Biological Reference interval**

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)

by ICT (IMMUNOCHROMATOGRAPHY)

INTERPRETATION:

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	

1. 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

2. 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:

Antibodies against Salmonella may cross react with other antibodies.

Unrelated infections may lead to production of specific Salmonella antibodies if the patient has previously been exposed to



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Test Name Value Unit **Biological Reference interval**

Salmonella infection (ANAMNESTIC RESPONSE)

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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Value Unit **Biological Reference interval Test Name**

C-REACTIVE PROTEIN (CRP)

C-REACTIVE PROTEIN (CRP) QUANTITATIVE: 2.03 0.0 - 6.0mg/L

by NEPHLOMETRY

INTERPRETATION:

1. C-reactive protein (CRP) is one of the most sensitive acute-phase reactants for inflammation.

2. CRP levels can increase dramatically (100-fold or more) after severe trauma, bacterial infection, inflammation, surgery, or neoplastic proliferation.

3. CRP levels (Quantitative) has been used to assess activity of inflammatory disease, to detect infections after surgery, to detect transplant

rejection, and to monitor these inflammatory processes.

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process.

NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.

*** End Of Report



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