

(A Unit of KOS Healthcare)



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

NAME : Master. AVITAJ

AGE/ GENDER : 3 YRS/MALE PATIENT ID : 1704081

COLLECTED BY : SURJESH REG. NO./LAB NO. : 012412200018

 REFERRED BY
 : 20/Dec/2024 10:24 AM

 BARCODE NO.
 : 01522714
 COLLECTION DATE
 : 20/Dec/2024 11:02AM

 CLIENT CODE.
 : KOS DIAGNOSTIC LAB
 REPORTING DATE
 : 20/Dec/2024 11:46AM

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	10.6 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	4.43	Millions/cmm	3.50 - 5.50
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	32.8 ^L	%	35.0 - 49.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	74.1 ^L	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	23.8^{L}	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	32.2	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	14.4	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	39.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	16.73	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	23.96	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	5420	/cmm	5000 - 15000
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	61	%	50 - 70				
by FLOW CYTOMETRY BY SF CUBE & M							
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & A	32 MICROSCOPY	%	20 - 45				
EOSINOPHILS	O _L	%	1 - 6				
by FLOW CYTOMETRY BY SF CUBE & M	MICROSCOPY						
MONOCYTES	7	%	3 - 12				
by FLOW CYTOMETRY BY SF CUBE & M BASOPHILS	MICROSCOPY 0	%	0 - 1				
by FLOW CYTOMETRY BY SF CUBE & N		70	0 - 1				
IMMATURE GRANULOCTE (IG) %		%	0 - 5.0				
by FLOW CYTOMETRY BY SF CÙBÉ & M	MICROSCOPY						
ABSOLUTE LEUKOCYTES (WBC)) COUNT						
ABSOLUTE NEUTROPHIL COUNT		/cmm	2000 - 7500				
by FLOW CYTOMETRY BY SF CUBE & M		,					
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & N		/cmm	800 - 4900				
ABSOLUTE EOSINOPHIL COUNT	0 ^L	/cmm	40 - 440				
by FLOW CYTOMETRY BY SF CUBE & N		/ CIIIII	10 110				
ABSOLUTE MONOCYTE COUNT	379	/cmm	80 - 880				
by FLOW CYTOMETRY BY SF CUBE & M							
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & N	0	/cmm	0 - 110				
ABSOLUTE IMMATURE GRANULO		/cmm	0.0 - 999.0				
by FLOW CYTOMETRY BY SF CUBE & M		/ CIIIII	0.0 000.0				
PLATELETS AND OTHER PLATE	PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.						
PLATELET COUNT (PLT)	170000	/cmm	150000 - 450000				
by HYDRO DYNAMIC FOCUSING, ELECT							
PLATELETCRIT (PCT)	0.2	%	0.10 - 0.36				
by HYDRO DYNAMIC FOCUSING, ELECT MEAN PLATELET VOLUME (MPV)		fL	6.50 - 12.0				
by HYDRO DYNAMIC FOCUSING, ELECT		IL	0.50 - 12.0				
PLATELET LARGE CELL COUNT (/cmm	30000 - 90000				
by HYDRO DYNAMIC FOCUSING, ELECT	RICAL IMPEDENCE						
PLATELET LARGE CELL RATIO (1		%	11.0 - 45.0				
by HYDRO DYNAMIC FOCUSING, ELECT	RICAL IMPEDENCE						



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

16 % 15.0 - 17.0

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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 : 20/Dec/2024 12:05PM

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

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

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 onset of symptoms.

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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KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Test Name Value Unit **Biological Reference interval**

REPORTING DATE

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: 5.96 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.



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DENGUE FEVER COMBO SCREENING - (NS1 ANTIGEN, IgG AND IgM)

DENGUE NS1 ANTIGEN - SCREENING
by ICT (IMMUNOCHROMATOGRAPHY)

DENGUE ANTIBODY IgG - SCREENING
by ICT (IMMUNOCHROMATOGRAPHY)

DENGUE ANTIBODY IgM - SCREENING
by ICT (IMMUNOCHROMATOGRAPHY)

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)

INTERPRETATION:-

- 1. This is a solid phase immunochromatographic ELISA test for the qualitative detection of the specific IgG and IgM antibodies against the Dengue virus.
- 2.The IgM antibodies 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.
- 3. The IgG antibodies develop at least two weeks after exposure to primary infection and subsequently remain positive for the rest of the life. A positive result is incapable of differentiating a current infection from a past infection.
- 4.The Dengue NS-1 antigen test is most suited for early diagnosis (within the first week of exposure).

*** End Of Report ***



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