



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mr. KARTAVYA			
AGE/ GENDER	: 17 YRS/MALE		PATIENT ID	: 1708982
COLLECTED BY	:		REG. NO./LAB NO.	: 012412250056
REFERRED BY	:		REGISTRATION DATE	: 25/Dec/2024 08:28 PM
BARCODE NO.	: 01523005		COLLECTION DATE	: 25/Dec/2024 08:44PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 25/Dec/2024 09:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANT I		
Test Name		Value	Unit	Biological Reference interval
		HAEM	ATOLOGY	
	COMP	PLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HE	3)	13.7	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (F	RBC) COUNT	4.71	Millions	/cmm 3.50 - 5.00
by HYDRO DYNAMIC FO	OCUSING, ELECTRICAL IMPEDENCE	40.1		
PACKED CELL VOLU by CALCULATED BY AL	ME (PCV) JTOMATED HEMATOLOGY ANALYZER	42.1	%	35.0 - 49.0
MEAN CORPUSCULA	R VOLUME (MCV) JTOMATED HEMATOLOGY ANALYZER	89.4	fL	80.0 - 100.0
MEAN CORPUSCULA	AR HAEMOGLOBIN (MCH)	28.5	pg	27.0 - 34.0
	TOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	31.9 ^L	g/dL	32.0 - 36.0
by CALCULATED BY AL	JTOMATED HEMATOLOGY ANALYZER		Ŭ	
	TION WIDTH (RDW-CV)	12.4	%	11.00 - 16.00
	JTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	41.5	fL	35.0 - 56.0
MENTZERS INDEX	TOMATED HEMATOLOGY ANALYZER	18.98	RATIO	BETA THALASSEMIA TRAIT: -
by CALCULATED				13.0 IDON DEFICIENCY ANEMIA.
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND	EX	23.06	RATIO	BETA THALASSEMIA TRAIT:<
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
WHITE BLOOD CEL		0000		4000 11000
TOTAL LEUCOCYTE by FLOW CYTOMETRY	COUNT (TLC) BY SF CUBE & MICROSCOPY	6390	/cmm	4000 - 11000
	LOOD CELLS (nRBCS) T HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
•	LOOD CELLS (nRBCS) %	NIL	%	< 10 %
	JTOMATED HEMATOLOGY ANALYZER			





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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

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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS	65	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	20	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES	14 ^H	%	2 - 12
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	04	
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
IMMATURE GRANULOCTE (IG) % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 5.0
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by sf cube & microscopy	4154	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	1278	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	64 ^L	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by flow cytometry by SF cube & microscopy	895 ^H	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by flow cytometry by sf cube & microscopy	0	/cmm	0 - 110
ABSOLUTE IMMATURE GRANULOCYTE COUNT by flow cytometry by SF cube & microscopy	0	/cmm	0.0 - 999.0
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	214000	/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	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	59000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	27.6	%	11.0 - 45.0



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Test Name	Value	Unit	Biological Reference interval

PLATELET DISTRIBUTION WIDTH (PDW)	16	%	15.0 - 17.0	
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE				
ADVICE				

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED



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	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		: 25/Dec/2024 09:17PM
CLIENT CODE.			: 25/Dec/2024 09:17PM Biological Reference interval
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT Value Unit MUNOPATHOLOGY/SEROL	Biological Reference interval
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT Value Unit	Biological Reference interval
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, IMIN TYPHOID COMBO SC N - SERUM	AMBALA CANTT Value Unit MUNOPATHOLOGY/SEROL	Biological Reference interval
CLIENT CODE. CLIENT ADDRESS Test Name TYPHOID ANTIGE	: 6349/1, NICHOLSON ROAD, IMN TYPHOID COMBO SC N - SERUM MATOGRAPHY) ODY IgG	AMBALA CANTT Value Unit MUNOPATHOLOGY/SEROL CREEN (TYPHOID ANTIGEN, Ig	Biological Reference interval OGY (G AND IgM): SERUM

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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Salmonella infection (ANAMNESTIC RESPONSE).

NOTE:-Rapid blood culture performed during f^t 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
		C-REACTIVE	PROTEIN (CRP)	
C-REACTIVE PROT SERUM by NEPHLOMETRY	EIN (CRP) QUANTITATIVE:	9.08 ^H	mg/L	0.0 - 6.0

proliferation.

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

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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