

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mr. ANSHAJ			
AGE/ GENDER	: 27 YRS/MALE		PATIENT ID	: 1693773
COLLECTED BY	:		REG. NO./LAB NO.	:012412070058
REFERRED BY	:		REGISTRATION DATE	: 07/Dec/2024 07:13 PM
BARCODE NO.	: 01522135		COLLECTION DATE	:07/Dec/202407:17PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Dec/2024 07:48PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEM	ATOLOGY	
	COMP	LETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HE	3)	13.5	gm/dL	12.0 - 17.0
RED BLOOD CELL (I	RBC) COUNT	4.71	Millions	/cmm 3.50 - 5.00
PACKED CELL VOLU	ME (PCV) UTOMATED HEMATOLOGY ANALYZER	42.7	%	40.0 - 54.0
MEAN CORPUSCULA		90.6	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	28.7	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	31.7 ^L	g/dL	32.0 - 36.0
	JTION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	13.1	%	11.00 - 16.00
RED CELL DISTRIBU	JTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	44.4	fL	35.0 - 56.0
MENTZERS INDEX		19.24	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by CALCULATED	EX	25.23	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEL	<u>LS (WBCS)</u>			
TOTAL LEUCOCYTE by FLOW CYTOMETRY	COUNT (TLC) by sf cube & microscopy	4970	/cmm	4000 - 11000
	LOOD CELLS (nRBCS) t hematology analyzer	NIL		0.00 - 20.00
NUCLEATED RED B	LOOD CELLS (nRBCS) % JTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %

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

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DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	72 ^H	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	16 ^L	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3578	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	795 ^L	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	199	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	398	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	209000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.25	%	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	80000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	38.1	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.8	%	15.0 - 17.0





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Tost Namo		Value Unit	Biological Reference interval

Test Name	Value	Unit	Biological Reference interval





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CHOLSON ROAD, A	MBALA CANT'	Т	
	Value	Unit	Biological Reference interval
CLINICA	AL CHEMI	STRY/BIOCHEMIST	RY

CLI **LIVER FUNCTION TEST (COMPLETE)**

		FUNCTION IESI (CO	VIF LEIE)	
BILIRUBIN TOTAL: SER by DIAZOTIZATION, SPECTE		0.4	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CO by DIAZO MODIFIED, SPECT		0.09	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (by CALCULATED, SPECTRO	UNCONJUGATED): SERUM	0.31	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDO	XAL PHOSPHATE	29.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDO	XAL PHOSPHATE	27.4	U/L	0.00 - 49.00
AST/ALT RATIO: SERUN by CALCULATED, SPECTRO		1.08	RATIO	0.00 - 46.00
ALKALINE PHOSPHATA by para nitrophenyl ph propanol	ASE: SERUM IOSPHATASE BY AMINO METHYL	58.3	U/L	40.0 - 130.0
GAMMA GLUTAMYL TR by SZASZ, SPECTROPHTO	ANSFERASE (GGT): SERUM METRY	18.87	U/L	0.00 - 55.0
TOTAL PROTEINS: SER		8.19 ^H	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN		4.2	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTRO	OPHOTOMETRY	3.99 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTRO	DPHOTOMETRY	1.05	RATIO	1.00 - 2.00

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.

: Mr. ANSHAJ

: 27 YRS/MALE

:01522135

: KOS DIAGNOSTIC LAB

: 6349/1, NICHOLSON RO

:

:

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)	
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:

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



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Test Name		Value	Unit	Biological Reference interval
	IN	MUNOPATHOLOGY/S	EROLOGY	Y
	ТҮРНОІД СОМВО	SCREEN (TYPHOID ANTI	GEN, IgG A	ND IgM): SERUM
TYPHOID ANTIGEN by ICT (IMMUNOCHRO		NEGATIVE (-ve)		NEGATIVE (-ve)
TYPHI DOT ANTIB by ICT (IMMUNOCHRO		NEGATIVE (-ve)		NEGATIVE (-ve)
TYPHI DOT ANTIBO		NEGATIVE (-ve)		NEGATIVE (-ve)
				on is acquired typically by ingestion. On etrate the lamina and submucosa. They are th

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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Test Name		Value	Unit	Biological Reference interval
	C	-REACTIVE PR	OTEIN (CRP)	
C-REACTIVE PROTI SERUM	EIN (CRP) QUANTITATIVE:	13.9 ^H	mg/L	0.0 - 6.0

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.

2. Oral contraceptives may increase CRP levels.

*** End Of Report ***





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proliferation.

NOTE:

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