



Dr. Vinay Chop MD (Pathology & Mid Chairman & Consulta	crobiology)	Dr. Yugam Cho MD (Patho CEO & Consultant Patho	blogy)
NAME : Mr. PARDEEP			
AGE/ GENDER : 24 YRS/MALE	РАТ	IENT ID : 15	574407
COLLECTED BY :	REG	. NO./LAB NO. : 0	12408080037
REFERRED BY	REG	ISTRATION DATE : 08	8/Aug/2024 11:00 AM
BARCODE NO. : 01514711	COL	LECTION DATE : 08	8/Aug/2024 11:01AM
CLIENT CODE. : KOS DIAGNOSTIC LAB	REP	ORTING DATE : 08	8/Aug/2024 11:34AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name	Value	Unit	Biological Reference interval
SWAS	THYA WELLN	ESS PANEL: 1.0	
COL	MPLETE BLOOD	COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	14.9	gm/dL	12.0 - 17.0
by CALORIMETRIC	11.2	Ŭ	12.0 17.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	5.58 ^H	Millions/cmm	3.50 - 5.00
PACKED CELL VOLUME (PCV)	46.4	%	40.0 - 54.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	00.1	q	00.0.100.0
MEAN CORPUSCULAR VOLUME (MCV) by calculated by automated hematology analyzer	83.1	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	26.7 ^L	pg	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)	32.2	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		Ū.	
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	13.5	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD)	41.9	fL	35.0 - 56.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX by CALCULATED	14.89	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	20.1	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED	20.1	1	65.0
			IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	11560 ^H	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER 8	NIL		0.00 - 20.00
MICROSCOPY NUCLEATED RED BLOOD CELLS (NRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER 8 MICROSCOPY	NIL	%	< 10 %
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			



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DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

KOS Central Lab:6349/1, Nicholson Road, Ambala Cantt -133 001, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com



Page 1 of 15







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

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Test Name	Value	Unit	Biological Reference interval
NEUTROPHILS	74 ^H	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE &		70	50 - 70
	17 ^L	%	20 - 40
by FLOW CYTOMETRY BY SF CUBE & EOSINOPHILS	OL	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MONOCYTES	MICROSCOPY 9	%	2 - 12
by FLOW CYTOMETRY BY SF CUBE & I		70	2 - 12
BASOPHILS	0	%	0 - 1
by FLOW CYTOMETRY BY SF CUBE & I ABSOLUTE LEUKOCYTES (WBC) CO			
ABSOLUTE NEUTROPHIL COUNT	8554 ^H	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE &	MICROSCOPY		
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & I	1965 MICROSCOPY	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT	0 ^L	/cmm	40 - 440
by FLOW CYTOMETRY BY SF CUBE & ABSOLUTE MONOCYTE COUNT		/cmm	80 - 880
by FLOW CYTOMETRY BY SF CUBE &	1040 ^Н міскоscopy	7cmm	00 - 800
PLATELETS AND OTHER PLATELET	PREDICTIVE MARKERS.		
PLATELET COUNT (PLT)	211000	/cmm	150000 - 450000
by HYDRO DYNAMIC FOCUSING, ELEC PLATELETCRIT (PCT)	TRICAL IMPEDENCE 0.27	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING, ELEC	TRICAL IMPEDENCE	/0	0.10 - 0.30
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELEC	13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LC	CC) 93000 ^H	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELEC PLATELET LARGE CELL RATIO (P-LCI	R) 44	%	11.0 - 45.0
by HYDRO DYNAMIC FOCUSING, ELEC	TRICAL IMPEDENCE		
PLATELET DISTRIBUTION WIDTH (F by HYDRO DYNAMIC FOCUSING, ELEC		%	15.0 - 17.0

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chop MD (Pathology & Mic Chairman & Consult	crobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. PARDEEP			
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BARCODE NO.	:01514711	COLL	ECTION DATE	: 08/Aug/2024 11:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 08/Aug/2024 11:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			ATION RATE (ESF	2)
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifi immune disease, but 2. An ESR can be affect as C-reactive protein 3. This test may also I systemic lupus erythe CONDITION WITH LOV A low ESR can be seet (polycythaemia), sign as sickle cells in sickli NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to ha 6. Drugs such as dext	does not tell the health practitioner cted by other conditions besides infl pe used to monitor disease activity a matosus V ESR n with conditions that inhibit the no ificantly high white blood cell count e cell anaemia) also lower the ESR. e protein (C-RP) are both markers of s not change as rapidly as does CRP, by as many other factors as is ESR , n ed , it is typically a result of two type ye a higher ESR. and menstruation ar	exactly where the in lammation. For this is and response to their prmal sedimentation t (leucocytosis), and inflammation. , either at the start of naking it a better ma is of proteins, globul nd pregnancy can ca	nflammation is in the reason, the ESR is typ rapy in both of the all of red blood cells, su some protein abnor f inflammation or as rker of inflammation ins or fibrinogen. use temporary eleval	on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count malities. Some changes in red cell shape (suc it resolves.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	EPORTING DATE	: 08/Aug/2024 12:36PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CLIN		Unit	
Test Name	CLIN		RY/BIOCHEMISTR	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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Dr. Yugam Chopra

CEO & Consultant Pathologist

MD (Pathology)

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				BARCODE NO.	:01514711
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	PORTING DATE	:08/Aug/2024 12:42PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		LIPID PROFIL	E : BASIC		
CHOLESTEROL TOTA by CHOLESTEROL O		126.77	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0	
TRIGLYCERIDES: SEI by GLYCEROL PHOS	RUM PHATE OXIDASE (ENZYMATIC)	75.3	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0	
HDL CHOLESTEROL by SELECTIVE INHIBI		42.76	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0	
LDL CHOLESTEROL:	SERUM	70.95	mg/dL	OPTIMAL: < 100.0	

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: Mr. PARDEEP

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			HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	70.95	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	84.01	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	15.06	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	330.84 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.96	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by Calculated, spectrophotometry	1.66	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

NAME





		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. PARDEEP			
AGE/ GENDER	: 24 YRS/MALE	PATI	ENT ID	: 1574407
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.76 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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MD (Pathology & Microbiology)



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Test Name	Value	Unit	Biological Reference interval
LIV	/ER FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.38	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.24	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	23	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	36.7	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.63	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHY PROPANOL	133.59 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	18.6	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.79	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.93	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	2.86	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.37	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.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)





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Test Name	Value	Unit	Biological Reference interval

Test Name Value Unit Biological Reference interval

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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MBBS, MD (PATHOLOGY)







Dr. Vinay Chopra

MD (Pathology & Microbiology

EXCELLENCE IN MEALTHCARE & DIAGNOSTICS Dr. Yugam Chopra

MD (Pathology)

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				153.403
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Test Name		Value	Unit	Biological Reference interval
	KIDI	NEY FUNCTI	ON TEST (COMPLETE)	
UREA: SERUM		23.52	mg/dL	10.00 - 50.00

UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	23.52	mg/dL	10.00 - 50.00
CREATININE: SERUM by Enzymatic, Spectrophotometery	1.03	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	10.99	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	10.67	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	22.83	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	4.61	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	10.01	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY	3.42	mg/dL	2.30 - 4.70
ELECTROLYTES			
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	141.3	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ise (ion selective electrode)	4.36	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	105.98	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM	104		

(eGFR): SERUM by CALCULATED

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE: 1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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Test Name			Value	Unit	Biological Reference interval
burns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle n 9. Certain drugs (e.g.	action plus ke or productio exia, high fever). (e.g. ureter colo ass (subnormal tetracycline, glu	ostomy) creatinine produ ucocorticoids)	uction)	on, GI bleeding, thyrotoxic	osis, Cushing's syndrome, high protein diet,
4. High protein intake 5. Impaired renal fur 6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam	action plus ke or productio exia, high fever). (e.g. ureter colo tass (subnormal tetracycline, glu 20:1) WITH ELEV/ a (BUN rises disp superimposed of 10:1) WITH DECR tosis. and starvation. e. creased urea sy (urea rather tha imonemias (urea of inappropiate a	ostomy) creatinine produ ucocorticoids) ATED CREATININE proportionately m on renal disease. EASED BUN : n thesis. n creatinine diffu a is virtually abse antidiuretic harm	uction) E LEVELS: hore than creatini uses out of extrac ent in blood). hone) due to tubu	ne) (e.g. obstructive uropa	

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio). 2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein ,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	





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NAME	: Mr. PARDEEP		
AGE/ GENDER	: 24 YRS/MALE	PATIENT ID	: 1574407
COLLECTED BY	:	REG. NO./LAB NO.	: 012408080037
REFERRED BY	:	REGISTRATION DATE	: 08/Aug/2024 11:00 AM
BARCODE NO.	:01514711	COLLECTION DATE	: 08/Aug/2024 11:01AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 08/Aug/2024 12:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	
Test Name		Value Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







	Dr. Vinay Cl MD (Pathology Chairman & Co			
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Test Name		Value	Unit	Biological Reference interval
	IN	IMUNOPATHOLOGY	SEROLOGY	
	TYPHOID COMBO	SCREEN (TYPHOID ANT	IGEN, IgG AN	D IgM): SERUM
TYPHOID ANTIGEN - by ICT (IMMUNOCHRO		NEGATIVE (-ve)		NEGATIVE (-ve)
TYPHI DOT ANTIBOI by ICT (IMMUNOCHRO	DY IgG	NEGATIVE (-ve)		NEGATIVE (-ve)
TYPHI DOT ANTIBOI by ICT (IMMUNOCHRO	DY IgM	NEGATIVE (-ve)		NEGATIVE (-ve)
reaching the gut, the phagocytosed there to transient bacteremia where further multip	bacilli attach themselves to the by polymorphs and mesenteric ly follows, during which the bacill	e epithelial cells of the intest ymph nodes, where they mul li are seeded in the liver, gal	inal villi and pen tiply and, via the I bladder, spleen	on is acquired typically by ingestion. On etrate the lamina and submucosa. They are the e thoracic duct, enter the blood stream. A a, bone marrow, lymph nodes, and kidneys, a massive bacteremia from these sites,

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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.



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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).

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
		CLINICAL PATH	IOLOGY	
		OUTINE & MICROSC	OPIC EXAMINAT	ION
PHYSICAL EXAMINA				
QUANTITY RECIEVED		10	ml	
	TANCE SPECTROPHOTOMETRY	10		
COLOUR		PALE YELLOW		PALE YELLOW
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	HAZY		CLEAR
	TANCE SPECTROPHOTOMETRY	11/121		OLL/ W
SPECIFIC GRAVITY		1.02		1.002 - 1.030
CHEMICAL EXAMINA	TANCE SPECTROPHOTOMETRY			
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	Noibio		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
рН		<=5.0		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	negative		
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	NUTTIAL	EU/UL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC BLOOD	TANCE SPECTROPHOTOMETRY	Nogativo		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-VE)
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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

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

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RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS		1-3	/HPF	0 - 5
	CENTRIFUGED URINARY SEDIMENT			

** End Of Report ***



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