



	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)		Pathology)
NAME	: Mr. ASHISH GUPTA			
AGE/ GENDER	: 45 YRS/MALE]	PATIENT ID	: 1638696
COLLECTED BY	: SURJESH]	REG. NO./LAB NO.	: 012410090020
REFERRED BY	:]	REGISTRATION DATE	: 09/Oct/2024 09:48 AM
BARCODE NO.	:01518577		COLLECTION DATE	: 09/Oct/2024 09:55AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	1	REPORTING DATE	: 09/Oct/2024 10:16AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWA	STHYA WEI	LINESS PANEL: 1.0	
	CO	MPLETE BLO	OOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		5.9 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RB	C) COUNT OCUSING, ELECTRICAL IMPEDENCE	2.19 ^L	Millions/cr	nm 3.50 - 5.00
PACKED CELL VOLUN	1E (PCV)	18.7 ^L	%	40.0 - 54.0
MEAN CORPUSCULAR		85.2	fL	80.0 - 100.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	26.7 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAI	R HEMOGLOBIN CONC. (MCHC)	31.3 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTI	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.1	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	47.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		38.9	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	X	58.22	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>s (WBCS)</u>			
TOTAL LEUCOCYTE CO	OUNT (TLC) ' by sf cube & microscopy	9230	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC by CALCULATED BY A		NIL	%	< 10 %
	<u></u>			



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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. ASHISH GUPTA **AGE/ GENDER** : 45 YRS/MALE **PATIENT ID** :1638696 **COLLECTED BY** : SURJESH :012410090020 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :09/0ct/2024 09:48 AM : **BARCODE NO.** :01518577 **COLLECTION DATE** :09/0ct/2024 09:55AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :09/Oct/2024 10:16AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name LYMPHOCYTES 20 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 11^H % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % MONOCYTES 7 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 5723 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1846 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE EOSINOPHIL COUNT** 40 - 440 1015^H /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 646 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 228000 150000 - 450000 PLATELET COUNT (PLT) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.2 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 9 6.50 - 12.0 fL by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 43000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 18.9 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED



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

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			n Chopra 9 (Pathology) t Pathologist
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:09/Oct/2024 10:32AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT	
Test Name		Value Unit	Biological Reference interval
ERYTHROCYTE SEDI	ERY I MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOME	THROCYTE SEDIMENTATION RATE (ES 60 ^H mm/1st	
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practit ected by other conditions beside be used to monitor disease act	tioner exactly where the inflammation is in the sinflammation. For this reason, the ESR is ty	tion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such above diseases as well as some others, such as

 3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while environment of a structure of the start of aspirin, cortisone, and quinine may decrease it





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	:09/Oct/2024 11:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CL	INICAL CHEMIST	RY/BIOCHEMISTR	Y
		GLUCOSE F	ASTING (F)	
GLUCOSE FASTING (I by GLUCOSE OXIDAS	F): PLASMA E - PEROXIDASE (GOD-POD)	94.52	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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LIPID PROFILE : BASIC CHOLESTEROL TOTAL: SERUM 137.92 mg/dL OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - HIGH CONDASE PAP 137.92 mg/dL OPTIMAL: < 200.0 TRIGLYCERIDES: SERUM 137.92 mg/dL OPTIMAL: < 150.0 by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) 82.16 mg/dL OPTIMAL: < 150.0 HDL CHOLESTEROL (DIRECT): SERUM 40.67 mg/dL LOW HOL: < 30.0 by SELECTIVE INHIBITION 80.82 mg/dL OPTIMAL: < 100.0 - 12 by CALCULATED, SPECTROPHOTOMETRY 80.82 mg/dL OPTIMAL: < 100.0 - 12 BORDERLINE HIGH: SCRUM 80.82 mg/dL OPTIMAL: < 100.0 - 12 by CALCULATED, SPECTROPHOTOMETRY 97.25 mg/dL OPTIMAL: < 130.0 - 12 NON HDL CHOLESTEROL: SERUM 97.25 mg/dL OPTIMAL: < 130.0 - 12 by CALCULATED, SPECTROPHOTOMETRY 97.25 mg/dL 0.00 - 45.00 VERY HIGH: > OR = 200.0 VERY HIGH: > OR = 200.0 VERY HIGH: > OR = 200.0 VLDL CHOLESTEROL: SERUM 16.43 mg/dL 0.00 - 45.00 by CALCULATED, SPECTROPHOTOMETRY 358 mg/dL 350.00 - 700.00 VERY HIGH:			Chopra y & Microbiology) ionsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
LIPID PROFILE : BASIC CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP 137.92 mg/dL OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - HIGH: CHOLESTEROL OXIDASE PAP TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) 82.16 mg/dL OPTIMAL: <150.0 BORDERLINE HIGH: 150.0 - HIGH: 200.0 - 499.0 VERY HIGH: > 0R = 500.0 UERY HIGH: > 0R = 500.0 HIGH: HOL :> 0R = 500.0 UERY HIGH: > 0R = 500.0 HIGH HDL: > 0R = 60.0 OPTIMAL: <100.0 - 12 BORDERLINE HIGH HDL: 30 60.0 HIGH HDL: > 0R = 60.0 UDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY 80.82 mg/dL OPTIMAL: 100.0 - 12 BORDERLINE HIGH: 130.0 - HIGH: 160.0 - 189.0 VERY HIGH: > 0R = 190.0 VERY HIGH: > 0R = 190.0 VERY HIGH: > 0R = 220.0 VERY HIGH: > 0R = 220.0 VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY CHOLESTEROL: SE	AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE.	: 45 YRS/MALE : SURJESH : : 01518577 : KOS DIAGNOSTIC LAB	REC REC COI REF	G. NO./LAB NO. SISTRATION DATE LECTION DATE	: 012410090020 : 09/Oct/2024 09:48 AM : 09/Oct/2024 09:55AM
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP137.92mg/dLOPTIMAL: < 20.0 BORDERLINE HIGH: 200.0 - HIGH CHOLESTEROL:> OR - HIGH CHOLESTEROL:> OR - HIGH CHOLESTEROL:> OR - BY GL/CEROL PHOSPHATE OXIDASE (ENZYMATIC)82.16mg/dLOPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - HIGH: 200.0 - 499.0 VERY HIGH:> OR = 500.0 VERY HIGH:> OR = 60.0 OPTIMAL: < 10.0 - 12 BORDERLINE HIGH HDL:> OR = 60.0 OPTIMAL: < 10.0 - 130.0 - 130.0 - BORDERLINE HIGH:> OR = 190.0 VERY HIGH:> OR = 220.0 VERY HIGH:> OR = 220.0 VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY97.25 S mg/dLmg/dLOPTIMAL: < 130.0 - 130.0 HIGH:> OR = 220.0 VERY HIGH:> OR = 20.0 DODERATE HIS	Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)82.16mg/dLOPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - HIGH: 200.0 + 499.0 VERY HIGH: > 0R = 500.0 URY HIGH: > 0R = 500.0 BORDERLINE HIGH HIGL: < 30.0 BORDERLINE HIGH HIGH: 30.0 - BORDERLINE HIGH HIGH: 30.0 - HIGH HIGH: > 0R = 60.0 HIGH HIGH: > 0R = 60.0 HIGH HIGH: > 0R = 60.0 HIGH HIGH: > 0.0 - 12 BORDERLINE HIGH: > 0.0 - 13 BORDERLINE HIGH: > 0.0 - 14 BORDERLINE HIGH: > 0.0 - 12 BORDERLINE HIGH: > 0.0 - 12 BORDERLINE HIGH: > 0.0 - 13 BORDERLINE HIGH: > 0.0 - 14 BORDERLINE HIGH: > 0.0 - 14 BORDERLINE HIGH: > 0.0 - 180.0 VERY HIGH: > 0.0 - 210.0 VERY HIGH: > 0.0 - 220.0VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY16.43 358 mg/dLmg/dL0.00 - 45.00 VERY HIGH: > 0.0 - 220.0 VERY HIGH: > 0.0 - 220.0 VERY HIGH: > 0.0 - 210.0 VERY HIGH: > 0.0 - 210.0 					BORDERLINE HIGH: 200.0 - 239.0
by SELECTIVE INHIBITIONBORDERLINE HIGH HDL: 30 60.0 HIGH HDL: > OR = 60.0LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY80.82mg/dLOPTIMAL: < 100.0 			82.16	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
by CALCULATED, SPECTROPHOTOMETRYABOVE OPTIMAL: 100.0 - 12 BORDERLINE HIGH: 130.0 - HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY97.25mg/dLOPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 15 BORDERLINE HIGH: 160.0 - 189.0 			40.67	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
by CALCULATED, SPECTROPHOTOMETRYABOVE OPTIMAL: 130.0 - 15 BORDERLINE HIGH: 160.0 - HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY16.43mg/dL0.00 - 45.00 VERY HIGH: > OR = 220.0TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY358mg/dL350.00 - 700.00 			80.82	mg/dL	ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
by CALCULATED, SPECTROPHOTOMETRY 358 mg/dL 350.00 - 700.00 by CALCULATED, SPECTROPHOTOMETRY 358 mg/dL 350.00 - 700.00 CHOLESTEROL/HDL RATIO: SERUM 3.39 RATIO LOW RISK: 3.30 - 4.40 by CALCULATED, SPECTROPHOTOMETRY 3.39 RATIO LOW RISK: 3.30 - 4.40 by CALCULATED, SPECTROPHOTOMETRY 3.39 RATIO AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11. HIGH RISK: > 11.0 HIGH RISK: > 11.0 LDL/HDL RATIO: SERUM 1.99 RATIO LOW RISK: 0.50 - 3.0			97.25	mg/dL	ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY358mg/dL350.00 - 700.00CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY3.39RATIOLOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11. HIGH RISK: > 11.0LDL/HDL RATIO: SERUM1.99RATIOLOW RISK: 0.50 - 3.0			16.43	mg/dL	0.00 - 45.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY3.39RATIOLOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11. HIGH RISK: > 11.0LDL/HDL RATIO: SERUM1.99RATIOLOW RISK: 0.50 - 3.0	TOTAL LIPIDS: SERU	M	358	mg/dL	350.00 - 700.00
	CHOLESTEROL/HDL	RATIO: SERUM	3.39	RATIO	AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
HIGH RISK: > 6.0			1.99	RATIO	MODERATE RISK: 3.10 - 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.02 ^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.

 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.
 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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Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S by diazotization, Si	ERUM PECTROPHOTOMETRY	0.54	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.23	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	C (UNCONJUGATED): SERUM	0.31	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	8.82	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	5.45	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE	UM ECTROPHOTOMETRY	1.62	RATIO	0.00 - 46.00
ALKALINE PHOSPHA by para nitrophen propanol	TASE: SERUM YL PHOSPHATASE BY AMINO METHYL	76	U/L	40.0 - 150.0
GAMMA GLUTAMYL by SZASZ, SPECTRO	TRANSFERASE (GGT): SERUM	15	U/L	0.00 - 55.0
TOTAL PROTEINS: S	ERUM	6.17 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.05 ^L	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY	3.12	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by calculated, sp	l ECTROPHOTOMETRY	0.98 ^L	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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Test Name	V	alue 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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ACCREDITED CERTIFIER FIED LAB	KOS Diagnostic Lal (A Unit of KOS Healthcare	excellence in healthcare	
	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
: Mr. ASHIS	H GUPTA		
: 45 YRS/MA	LE	PATIENT ID	: 1638696
: SURJESH		REG. NO./LAB NO.	:012410090020
:		REGISTRATION DATE	: 09/Oct/2024 09:48 AM
:01518577		COLLECTION DATE	:09/Oct/2024 09:55AM
: KOS DIAGN	NOSTIC LAB	REPORTING DATE	:09/Oct/2024 12:32PM
: 6349/1, NI	ICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
KID	NEY FUNCTION TES	ST (COMPLETE)	
	164.47 ^H	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	11.7 ^H	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	76.86 ^H	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM	6.57 ^L	RATIO	10.0 - 20.0
by CALCULATED, SPECTROPHOTOMETRY UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	14.06	RATIO	
URIC ACID: SERUM	6.8	mg/dL	3.60 - 7.70
by URICASE - OXIDASE PEROXIDASE CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	7.93 ^L	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY	4.45	mg/dL	2.30 - 4.70
ELECTROLYTES			
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	138	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	5.17 ^H	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	103.5	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	4.9		
NOTE 2 ADVICE INTERPRETATION:	RESULT RECHECK KINDLY CORRELA		

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



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

NAME

AGE/ GENDER

COLLECTED BY

REFERRED BY

BARCODE NO.

CLIENT CODE.

CLIENT ADDRESS





	M	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
IAME	: Mr. ASHISH G	UPTA					
AGE/ GENDER	: 45 YRS/MALE		PATIENT	ID	: 1638696		
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BARCODE NO.	:01518577			ION DATE			
LIENT CODE.	: KOS DIAGNOS	DIAGNOSTIC LAB REPORTING DAT			E : 09/Oct/2024 12:32PM		
LIENT ADDRESS	: 6349/1, NICHO	DLSON ROAD, AMBA	LA CANTT				
Test Name			Value	Unit	Biological	Reference interval	
Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in . Cephalosporin ther STIMATED GLOMERL	20:1) WITH ELEVATI a (BUN rises dispro superimposed on 10:1) WITH DECREA rosis. and starvation. be: ecreased urea syntl (urea rather than on monemias (urea is of inappropiate and 10:1) WITH INCREA apy (accelerates co releases muscle crea who develop rena D: Disis (acetoacetate of increased BUN/crea rapy (interferes with ULAR FILTERATION	ED CREATININE LEVEL portionately more th renal disease. SED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: nversion of creatine eatinine). I failure. causes false increase tinine ratio). th creatinine measure RATE:	an creatinine) (e.g. o at of extracellular flui lood). ue to tubular secretio to creatinine). in creatinine with ce ement).	d). In of urea. Itain methodolo	ogies,resulting in norma	Il ratio when dehydratio	
CKD STAGE			GFR (mL/min/1.7	3m2) AS	SOCIATED FINDINGS	4	
<u> </u>		al kidney function	>90 >90		No proteinuria resence of Protein ,	4	
G1	I Kidr	ney damage with	\U()	P	Levence of Protein		
G1 G2		5 0	>10				
G2	nor	mal or high GFR			umin or cast in urine		
	nor Mild	5 0	<u>60 -89</u> 30-59				
G2 G3a	nor Mild Modera	mal or high GFR decrease in GFR	60 -89				





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









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			/
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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Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOGY	
		OUTINE & MICRO	SCOPIC EXAMINAT	TION
PHYSICAL EXAMINA				
		10		
QUANTITY RECIEVED) TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		PALE YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY		CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
PROTEIN		3+		NEGATIVE (-ve)
SUGAR	CTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
рН		<=5.0		5.0 - 7.5
	TANCE SPECTROPHOTOMETRY	Negativo		
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BLOOD		TRACE		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY		-)	

MICROSCOPIC EXAMINATION



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



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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 3	
PUS CELLS by MICROSCOPY ON G	CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		1-3	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON O	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON G	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON O	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAC	INALIS (PROTOZOA)	ABSENT		ABSENT	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***



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