



Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	Dr. Yugam MD (CEO & Consultant F	Pathology)
NAME : Mr. RAJ KUMAR			
AGE/ GENDER : 68 YRS/MALE	1	PATIENT ID	: 1580120
COLLECTED BY :]	REG. NO./LAB NO.	: 042408140004
REFERRED BY :]	REGISTRATION DATE	: 14/Aug/2024 09:34 AM
BARCODE NO. : A0465221	(COLLECTION DATE	: 14/Aug/2024 03:17PM
CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD]	REPORTING DATE	: 14/Aug/2024 03:55PM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AME	BALA CANTT		
Test Name	Value	Unit	Biological Reference interval
SWAST	THYA WELI	LNESS PANEL: 15.0	
CON	API FTF BLO	OD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES		02 000111 (020)	
HAEMOGLOBIN (HB)	13.3	gm/dL	12.0 - 17.0
by CALORIMETRIC	10.0		
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	5.15 ^H	Millions/ci	mm 3.50 - 5.00
PACKED CELL VOLUME (PCV)	43.4	%	40.0 - 54.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	04.2	fL	80.0 - 100.0
MEAN CORPUSCULAR VOLUME (MCV) by calculated by automated hematology analyzer	84.3	IL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	25.8 ^L	pg	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)	30.7 ^L	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	17.4 ^H	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	55	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	16.37	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	28.45	RATIO	BETA THALASSEMIA TRAIT: < = 65.0
WHITE BLOOD CELLS (WBCS)			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	9410	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY DIFFERENTIAL LEUCOCYTE COUNT (DLC)	NIL	%	< 10 %



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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

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Test Name		Value	Unit	Biological Reference interval
NEUTROPHILS		63	%	50 - 70
by FLOW CYTOMETRY BY S	F CUBE & MICROSCOPY	27	0/	20, 10
LYMPHOCYTES by FLOW CYTOMETRY BY S	F CUBE & MICROSCOPY	27	%	20 - 40
EOSINOPHILS		2	%	1 - 6
by FLOW CYTOMETRY BY S	F CUBE & MICROSCOPY	0	0/	2 12
MONOCYTES by FLOW CYTOMETRY BY S	F CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS		0	%	0 - 1
by FLOW CYTOMETRY BY S ABSOLUTE LEUKOCYTES (
Absolute Neutrophil (5928	/cmm	2000 - 7500
by FLOW CYTOMETRY BY S		3720	/ cmm	2000 7000
ABSOLUTE LYMPHOCYTE		2541	/cmm	800 - 4900
by FLOW CYTOMETRY BY S ABSOLUTE EOSINOPHIL C		188	/cmm	40 - 440
by FLOW CYTOMETRY BY S	F CUBE & MICROSCOPY			
ABSOLUTE MONOCYTE CO by FLOW CYTOMETRY BY S		753	/cmm	80 - 880
•	LATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (PLT)		258000	/cmm	150000 - 450000
PLATELETCRIT (PCT)	ING, ELECTRICAL IMPEDENCE	0.24	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUS	NING, ELECTRICAL IMPEDENCE			
MEAN PLATELET VOLUMI	E (MPV) NING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
PLATELET LARGE CELL CO		60000	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUS	NING, ELECTRICAL IMPEDENCE		~	11.0.15.0
PLATELET LARGE CELL RA by HYDRO DYNAMIC FOCUS	IIO (P-LCR) SING, ELECTRICAL IMPEDENCE	23.4	%	11.0 - 45.0
PLATELET DISTRIBUTION		16.1	%	15.0 - 17.0
	ING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDUCTED	O ON EDTA WHOLE BLOOD			



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CLIENT CODE.	: KOS DIAGNOSTIC SHAHBA	D REP	ORTING DATE	: 14/Aug/2024 04:42PM
	· 6240/1 NICHOLSON DOAD	AMPALA CANTT		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AIVIDALA CAN I I		
CLIENT ADDRESS Test Name	. 0549/1, NICHOLSON ROAL	Value	Unit	Biological Reference interval
				-
		Value	//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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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILI	E : BASIC	
CHOLESTEROL TOTAL	: SERUM	122.22	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXI	DASE PAP		3.4	BORDERLINE HIGH: 200.0 - 23 HIGH CHOLESTEROL: > OR = 24
RIGLYCERIDES: SERU		97.51	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPF	IATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 19 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (D		36.87	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITIC	N			BORDERLINE HIGH HDL: 30.0
				60.0 HIGH HDL: > OR = 60.0
DL CHOLESTEROL: SI	ERUM	65.85	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPEC	CTROPHOTOMETRY		3	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 15
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTER	ROL: SERUM	85.35	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPEC		00.00	iiig, az	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 18
				HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
/LDL CHOLESTEROL:	SERUM	19.5	mg/dL	0.00 - 45.00
by CALCULATED, SPEC	CTROPHOTOMETRY		, i i i i i i i i i i i i i i i i i i i	
FOTAL LIPIDS: SERUN by calculated, spec		341.95 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R	ATIO: SERUM	3.31	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPEC	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
_DL/HDL RATIO: SERI	IM	1.79	RATIO	LOW RISK: > 11.0
by CALCULATED, SPEC		1.77	INTIO 1	MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM ECTROPHOTOMETRY	2.64 ^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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Unit

MD (Pathology)

:1580120

:042408140004

:14/Aug/2024 09:34 AM

:14/Aug/202403:17PM

:14/Aug/202404:42PM

Biological Reference interval

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. RAJ KUMAR AGE/ GENDER : 68 YRS/MALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** : **BARCODE NO.** : A0465220 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value

u	VER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.43	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by diazo modified, spectrophotometry	0.16	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.27	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	13.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	11.8	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.12	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methy propanol	110.37 /L	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	22.36	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.94	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	3.92	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.02	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.3	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



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NAME

Test Name





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

HEPATOCELLULAR CARCINOMA & CHRONIC HEPATTIS > 1.3 (Slightly Increase DECREASED: > 1.3 (Slightly Increase

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).

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



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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

ce interval

by CALCULATED

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
8. Reduced muscle n 9. Certain drugs (e.g	n (e.g. ureter colostomy) nass (subnormal creatinine pro tetracycline, glucocorticoids)	·		osis, Cushing's syndrome, high protein diet,
8. Reduced muscle n 9. Certain drugs (e.g INCREASED RATIO (> 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular nec 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperan 7. SIADH (syndrome 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (hass (subnormal creatinine pro tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATIN a (BUN rises disproportionately superimposed on renal diseas 10:1) WITH DECREASED BUN : rosis. nd starvation. se. curea rather than creatinine d monemias (urea is virtually at of inappropiate antidiuretic ha 10:1) WITH INCREASED CREATIN apy (accelerates conversion of releases muscle creatinine). who develop renal failure.	INE LEVELS: y more than creatinine) se. iffuses out of extracellul osent in blood). rmone) due to tubular s NINE:	lar fluid).	

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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Test Name	Valu	le 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

End Of Report ***





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