

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr: MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mr. JAGBIR SINGH			
AGE/ GENDER	: 44 YRS/MALE	F	PATIENT ID	: 1105985
COLLECTED BY	:	F	REG. NO./LAB NO.	: 042411170002
REFERRED BY	:	F	REGISTRATION DATE	: 17/Nov/2024 11:54 AM
BARCODE NO.	: A0465993		COLLECTION DATE	: 17/Nov/2024 03:09PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 17/Nov/2024 03:41PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWA STL	IVA WETT	LNESS PANEL: 15.	0
				0
DED BLOOD CELL	COMP <u>S (RBCS) COUNT AND INDICES</u>	LEIE BLU	OD COUNT (CBC)	
HAEMOGLOBIN (H		10 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC			Ŭ	
RED BLOOD CELL ((RBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.21	Millions/o	cmm 3.50 - 5.00
PACKED CELL VOL		33.8 ^L	%	40.0 - 54.0
MEAN CORPUSCUL		80.1	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	23.8 ^L	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	29.7 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	17.4 ^H	%	11.00 - 16.00
RED CELL DISTRIB	AUTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD)	51.9	fL	35.0 - 56.0
MENTZERS INDEX	AUTOMATED HEMATOLOGY ANALYZER	19.03	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI	DEX	33.17	RATIO	BETA THALASSEMIA TRAIT:<=
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
WHITE BLOOD CE				
TOTAL LEUCOCYTI	E COUNT (TLC) Y by sf cube & microscopy	5780	/cmm	4000 - 11000
NUCLEATED RED E	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
,	rt hematology analyzer BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
	AUTOMATED HEMATOLOGY ANALYZER	1111	70	





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

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Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. JAGBIR SINGH **AGE/ GENDER** : 44 YRS/MALE **PATIENT ID** :1105985 **COLLECTED BY** REG. NO./LAB NO. :042411170002 **REFERRED BY REGISTRATION DATE** : 17/Nov/2024 11:54 AM : A0465993 **BARCODE NO. COLLECTION DATE** : 17/Nov/2024 03:09PM CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 17/Nov/2024 03:41PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 56 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 30 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 9 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3237 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1734 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 289/cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 520 /cmm 80 - 880 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. PLATELET COUNT (PLT) 150000 - 450000 501000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.58^H % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 192000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 38.3 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.4% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Dr. Vinay Chopra

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

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Test Name	Value	Unit	Biological Reference interval





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CLIENT ADDRESS	: 6349/1, NICHOLSON I	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CI	LINICAL CHEMISTRY	/BIOCHEMISTRY	Y
		GLUCOSE FAS	TING (F)	
	G (F): PLASMA	107.79 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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. 3. 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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CLIENT ADDRESS : 6349/1, NIC	HOLSON ROAD, AMBALA CANTI	ſ	
Test Name	Value	Unit	Biological Reference interval
	I IDIN DD	OFILE : BASIC	
CHOLESTEROL TOTAL: SERUM	172.87	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL TOTAL. SERUM	172.07	liig/ uL	BORDERLINE HIGH: 200.0 -
			239.0
			HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM	204.82 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE OXIDASE (E	NZYMATIC)	0	BORDERLINE HIGH: 150.0 -
			199.0 HIGH: 200.0 - 499.0
			VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SE	RUM 42.7	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION			BORDERLINE HIGH HDL: 30.0 60.0
			HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: SERUM	89.21	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPHOTOMET	RY		ABOVE OPTIMAL: 100.0 - 129.
			BORDERLINE HIGH: 130.0 - 159.0
			HIGH: 160.0 - 189.0
NON HDL CHOLESTEROL: SERUM	100 4 7 4	ma/dI	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPECTROPHOTOMET		mg/dL	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	40.96	mg/dL	0.00 - 45.00
by CALCULATED, SPECTROPHOTOMET, TOTAL LIPIDS: SERUM	ry 550.56	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOMET	RY	C C	
CHOLESTEROL/HDL RATIO: SERU by CALCULATED, SPECTROPHOTOMET		RATIO	LOW RISK: 3.30 - 4.40
by CALCOLATED, SELCTROFILDTOMET			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
			HIGH RISK: > 11.0
	11	A	
STREET KAN	•	Thomas	

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST

MBBS, MD (PATHOLOGY)

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MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST

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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by Calculated, spe		2.09	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H	IDL RATIO: SERUM	4.8	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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Test Name		Value	Unit	Biological Reference interval	
	LIVER	FUNCTION 2	FEST (COMPLETE)		
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.38	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	Г (CONJUGATED): SERUM spectrophotometry	0.11	mg/dL	0.00 - 0.40	
	ECT (UNCONJUGATED): SERUM ECTROPHOTOMETRY	0.27	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	36.6	U/L	7.00 - 45.00	
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	43.1	U/L	0.00 - 49.00	
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	0.85	RATIO	0.00 - 46.00	
ALKALINE PHOSP by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	65.39	U/L	40.0 - 130.0	
GAMMA GLUTAMY by SZASZ, SPECTRON	L TRANSFERASE (GGT): SERUM PHTOMETRY	66.2 ^H	U/L	0.00 - 55.0	
TOTAL PROTEINS: by BIURET, SPECTRO		8.13 ^H	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM		4.51	gm/dL	3.50 - 5.50	
GLOBULIN: SERUN by CALCULATED, SPE		3.62 ^H	gm/dL	2.30 - 3.50	
A : G RATIO: SERUE	M ECTROPHOTOMETRY	1.25	RATIO	1.00 - 2.00	

by CALCULATED, SPECTROPHOTOMETRY

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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INTERPRETATION





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Test Name	Valu	e 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 SIGNIFICANO	:Е:

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



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SU 9001 : 2008 CERTIFIED LAB		EXCELLENCE IN HEALTHCARE & DIAGNOSTICS			
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	KIDNE	Y FUNCTION	TEST (COMPLETE)		
UREA: SERUM	TE DEHYDROGENASE (GLDH)	22.18	mg/dL	10.00 - 50.00	
CREATININE: SERUN by ENZYMATIC, SPECTE	A	1.25	mg/dL	0.40 - 1.40	
BLOOD UREA NITRO	GEN (BUN): SERUM	10.36	mg/dL	7.0 - 25.0	
BLOOD UREA NITRO	GEN (BUN)/CREATININE	8.29 ^L	RATIO	10.0 - 20.0	
RATIO: SERUM by CALCULATED, SPEC	TROPHOTOMETRY				
UREA/CREATININE	RATIO: SERUM	17.74	RATIO		
by CALCULATED, SPEC URIC ACID: SERUM	TROPHOTOMETRY	6.93	mg/dL	3.60 - 7.70	
by URICASE - OXIDASE	PEROXIDASE				
CALCIUM: SERUM by ARSENAZO III, SPEC	TROPHOTOMETRY	10.06	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SER	UM	3.76	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBDA ELECTROLYTES	TE, SPECTROPHOTOMETRY				
<u>ELECTROLITES</u> SODIUM: SERUM		140.2	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIVE			IIIII01/ L	133.0 - 130.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE		4.03	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE		105.15	mmol/L	90.0 - 110.0	
	RULAR FILTERATION RATE				
ESTIMATED GLOME (eGFR): SERUM by CALCULATED INTERPRETATION:	RULAR FILTERATION RATE	72.8			

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.

3. GI haemorrhage.



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Test Name			Value	Unit	Biologic	al Reference interval
6. Inherited hyperam 7. SIADH (syndrome (8. Pregnancy. DECREASED RATIO (<	ecreased urea sy (urea rather tha monemias (ure of inappropiate 10:1) WITH INCR	n creatinine diffuses o a is virtually absent in l antidiuretic harmone) o	blood). due to tubul	ar secretion of urea.		
2. Rhabdomyolysis (r 3. Muscular patients	eleases muscle			,		
NAPPROPIATE RATIC):	enal failure.				
I. Diabetic ketoacido should produce an in 2. Cephalosporin the ESTIMATED GLOMERI): osis (acetoaceta ncreased BUN/ci rapy (interferes ULAR FILTERATIC	enal failure. te causes false increase reatinine ratio). with creatinine measur DN RATE:		ne with certain metho	odologies,resulting in norm	nal ratio when dehydratio
Diabetic ketoacido hould produce an ir Cephalosporin the STIMATED GLOMERI CKD STAGE	D: Disis (acetoaceta Increased BUN/ci rapy (interferes ULAR FILTERATIC	enal failure. te causes false increase reatinine ratio). with creatinine measur DN RATE: DESCRIPTION	ement).	L/min/1.73m2)	ASSOCIATED FINDINGS	nal ratio when dehydratic
I. Diabetic ketoacido should produce an ir 2. Cephalosporin the ESTIMATED GLOMERI CKD STAGE G1	D: posis (acetoaceta horeased BUN/ci rapy (interferes ULAR FILTERATIO No	enal failure. te causes false increase reatinine ratio). with creatinine measur DN RATE: DESCRIPTION rmal kidney function	ement).	L/min/1.73m2)	ASSOCIATED FINDINGS No proteinuria	nal ratio when dehydratio
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1. Diabetic ketoacido should produce an ir 2. Cephalosporin the ESTIMATED GLOMERI CKD STAGE G1 G2 G3a	D: posis (acetoaceta horeased BUN/cri- rapy (interferes ULAR FILTERATION NO K rapy No Mod	enal failure. te causes false increase reatinine ratio). with creatinine measur DN RATE: DESCRIPTION rmal kidney function idney damage with normal or high GFR	ement).	L/min/1.73m2) >90 >90 60 -89	ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	nal ratio when dehydratio





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, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com







	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
NAME	: Mr. JAGBIR SINGH				
AGE/ GENDER	: 44 YRS/MALE	PATIENT ID	: 1105985		
COLLECTED BY	:	REG. NO./LAB NO.	: 042411170002		
REFERRED BY	:	REGISTRATION DATE	: 17/Nov/2024 11:54 AM		
BARCODE NO.	: A0465992	COLLECTION DATE	: 17/Nov/2024 03:10PM		
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 17/Nov/2024 06:00PM		
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

End Of Report ***





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

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