

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mr. INDERJEET SINGH				
AGE/ GENDER	: 36 YRS/MALE		PATIENT ID	: 1703193	5
COLLECTED BY	:		REG. NO./LAB NO.	:042412	190002
REFERRED BY	:		REGISTRATION DATE	:19/Dec/	2024 10:56 AM
BARCODE NO.	: A1260143		COLLECTION DATE		2024 02:26PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	:19/Dec/	2024 03:00PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT			
Test Name		Value	Unit		Biological Reference interval
			LNESS PANEL: 15 DOD COUNT (CBC)	.0	
	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H	B)	15.2	gm/dL		12.0 - 17.0
RED BLOOD CELL (RBC) COUNT	5.67 ^H	Millions	/cmm	3.50 - 5.00
PACKED CELL VOLU	UME (PCV) UTOMATED HEMATOLOGY ANALYZER	48.3	%		40.0 - 54.0
MEAN CORPUSCUL	AR VOLUME (MCV) utomated hematology analyzer	85.1	fL		80.0 - 100.0
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	26.8 ^L	pg		27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.5 ^L	g/dL		32.0 - 36.0
	UTION WIDTH (RDW-CV) utomated hematology analyzer	12.8	%		11.00 - 16.00
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	40.8	fL	:	35.0 - 56.0
MENTZERS INDEX by CALCULATED		15.01	RATIO		BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INE by CALCULATED	DEX	19.21	RATIO	-	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)				
	Y BY SF CUBE & MICROSCOPY	9490	/cmm		4000 - 11000
by AUTOMATED 6 PAF	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL			0.00 - 20.00
	BLOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%		< 10 %





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)

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. INDERJEET SINGH AGE/ GENDER : 36 YRS/MALE **PATIENT ID** :1703193 **COLLECTED BY** :042412190002 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 19/Dec/2024 10:56 AM **BARCODE NO. COLLECTION DATE** :19/Dec/2024 02:26PM :A1260143 CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 19/Dec/2024 03:00PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 65 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 29 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 4 % 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 6169 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2752 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 190 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 380 /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 330000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.4^H PLATELETCRIT (PCT) % 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 131000^H 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 39.5 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.4%

Dr. Vinay Chopra

MD (Pathology & Microbiology)

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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, NICHOLSO	N ROAD, AMBALA CANTI	,		
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL CHEMIS	TRY/BIOCHEMIST	'RY	
		GLUCOSI	E FASTING (F)		

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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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TO	TAL: SERUM	204.48 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	(IDASE PAP	20110	0	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
RIGLYCERIDES: S		166.09 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSE	PHATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
IDL CHOLESTERO	L (DIRECT): SERUM	39.69	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
				60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTERO		131.57 ^H	mg/dL	OPTIMAL: < 100.0
by CALCOLATED, SPE	CIROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES	FEROL: SERUM	164.79 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE		104.79	ing, ul	ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: $> OR = 220.0$
LDL CHOLESTER		33.22	mg/dL	0.00 - 45.00
by CALCULATED, SPE		575.05	mg/dL	350.00 - 700.00
by CALCULATED, SPE	CTROPHOTOMETRY			
CHOLESTEROL/HI by CALCULATED, SPE		5.15 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0
,				MODERATE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0





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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		3.31 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		4.18	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
			TEST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY		1.19	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		0.21	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.98	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	37.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	42.4	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.88	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	77.85	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	29.75	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.41	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.47	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	1	2.94	gm/dL	2.30 - 3.50
by CALCULATED, SPE A : G RATIO: SERUI	M	1.52	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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	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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SU 9001 : 2008 CERTIFIED LAB			EXCELLENCE IN MEALTHCARE & DIAGNOSTICS			
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Test Name		Value	Unit	Biological Reference interval		
	KIDN	EY FUNCTION 7	FEST (COMPLETE)			
UREA: SERUM	MATE DEHYDROGENASE (GLDH)	38.92	mg/dL	10.00 - 50.00		
CREATININE: SER		1.02	mg/dL	0.40 - 1.40		
•		18.19				
	BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		mg/dL	7.0 - 25.0		
BLOOD UREA NITI	BLOOD UREA NITROGEN (BUN)/CREATININE		RATIO	10.0 - 20.0		
RATIO: SERUM	ECTROPHOTOMETRY					
UREA/CREATININ		38.16	RATIO			
-	ECTROPHOTOMETRY	7 50		0.00 7.70		
URIC ACID: SERUN by URICASE - OXIDAS		7.59	mg/dL	3.60 - 7.70		
CALCIUM: SERUM		10.23	mg/dL	8.50 - 10.60		
by ARSENAZO III, SPE PHOSPHOROUS: SI	ECTROPHOTOMETRY FRIIM	3.25	mg/dL	2.30 - 4.70		
by PHOSPHOMOLYB	DATE, SPECTROPHOTOMETRY	0.20	ing, all	2.00 1.10		
ELECTROLYTES						
SODIUM: SERUM by ISE (ION SELECTIV		140.5	mmol/L	135.0 - 150.0		
POTASSIUM: SERU		4.3	mmol/L	3.50 - 5.00		
by ISE (ION SELECTIVE ELECTRODE)		105.38				
	CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)		mmol/L	90.0 - 110.0		
	MERULAR FILTERATION RATE					
(eGFR): SERUM by CALCULATED	IERULAR FILTERATION RATE	97.7				
INTERPRETATION:	veen pre- and post renal azotemia					

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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est Name		Value	Unit	t Biologic	al Reference interval
	10:1) WITH DECREASED BUN :				
Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin the STIMATED GLOMERT CKD STAGE	rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinine di imonemias (urea is virtually ab of inappropiate antidiuretic ha 10:1) WITH INCREASED CREATII apy (accelerates conversion of eleases muscle creatinine). who develop renal failure. bis (acetoacetate causes false icreased BUN/creatinine ratio) rapy (interferes with creatinine JLAR FILTERATION RATE: DESCRIPTION	osent in blood). rmone) due to tubular VINE: creatine to creatinine) increase in creatinine). e measurement).	secretion of urea.	odologies,resulting in norr ASSOCIATED FINDINGS	nal ratio when dehydratic
Acute tubular necr Low protein diet al Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients APPROPIATE RATIO Diabetic ketoacido ould produce an in Cephalosporin the STIMATED GLOMERI CKD STAGE G1	rosis. nd starvation. e. ecreased urea synthesis. (urea rather than creatinine di imonemias (urea is virtually ab of inappropiate antidiuretic ha 10:1) WITH INCREASED CREATII apy (accelerates conversion of releases muscle creatinine). who develop renal failure. bis (acetoacetate causes false icreased BUN/creatinine ratio) rapy (interferes with creatinine <u>JLAR FILTERATION RATE:</u> <u>DESCRIPTION</u> <u>Normal kidney fu</u>	osent in blood). rmone) due to tubular VINE: creatine to creatinine) increase in creatinine a measurement). V	secretion of urea. with certain meth min/1.73m2) >90	iodologies,resulting in norr ASSOCIATED FINDINGS No proteinuria	nal ratio when dehydratic
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	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
NAME	: Mr. INDERJEET SINGH				
AGE/ GENDER	: 36 YRS/MALE	PATIENT ID	: 1703193		
COLLECTED BY	:	REG. NO./LAB NO.	: 042412190002		
REFERRED BY	:	REGISTRATION DATE	: 19/Dec/2024 10:56 AM		
BARCODE NO.	: A1260142	COLLECTION DATE	: 19/Dec/2024 02:28PM		
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 19/Dec/2024 04:48PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA 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 ***





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