



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME	: Mr. MANJEET SINGH			
AGE/ GENDER	: 28 YRS/MALE		PATIENT ID	: 1756566
COLLECTED BY	:		REG. NO./LAB NO.	: 012502140016
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBAI	LA CANTT)	<b>REGISTRATION DATE</b>	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487		COLLECTION DATE	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 14/Feb/2025 10:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANT'I		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	SWAST	HYA WE	LINESS PANEL: 1.0	
			OOD COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H		14.1	gm/dL	12.0 - 17.0
by CALORIMETRIC	(DDC) COUNT	r roll	Millions	250 5 00
RED BLOOD CELL ( by HYDRO DYNAMIC F	(KBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.73 <sup>H</sup>	Millions/	(cmm 3.50 - 5.00
PACKED CELL VOL	UME (PCV) AUTOMATED HEMATOLOGY ANALYZER	43.1	%	40.0 - 54.0
MEAN CORPUSCUL		75.2 <sup>L</sup>	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	24.7 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	32.8	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	13.7	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD)	38.7	fL	35.0 - 56.0
MENTZERS INDEX		13.12	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
GREEN & KING INI	DEX	18.05	RATIO	>13.0 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	7280	/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	IVIL	70	





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: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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

 www.koshealthcare.com
 www.koshealthcare.com

Page 1 of 14

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Ch MD (Pathology & Chairman & Con:				(Pathology)
NAME	: Mr. MANJEET SINGH			
AGE/ GENDER	: 28 YRS/MALE		PATIENT ID	: 1756566
COLLECTED BY	:		REG. NO./LAB NO.	: 012502140016
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMI	BALA CANTT)	<b>REGISTRATION DATE</b>	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487		<b>COLLECTION DATE</b>	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 14/Feb/2025 10:55AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS		63	%	50 - 70
by FLOW CYTOMETRY LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	22	%	20 - 40
	BY SF CUBE & MICROSCOPY	~~~		
EOSINOPHILS	/ BY SF CUBE & MICROSCOPY	5	%	1 - 6
MONOCYTES	BI SI CODE & MICROSCOI I	10	%	2 - 12
-	Y BY SF CUBE & MICROSCOPY		0/	
BASOPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
ABSOLUTE NEUTR		4586	/cmm	2000 - 7500
ABSOLUTE LYMPH	Y BY SF CUBE & MICROSCOPY OCYTE COUNT	1602	/cmm	800 - 4900
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINC	PHIL COUNT / by sf cube & microscopy	364	/cmm	40 - 440
ABSOLUTE MONOC	YTE COUNT	728	/cmm	80 - 880
by FLOW CYTOMETRY ABSOLUTE BASOPI	BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	BY SF CUBE & MICROSCOPY	0	/ ciiiii	0 - 110
	URE GRANULOCYTE COUNT / by sf cube & microscopy	0	/cmm	0.0 - 999.0
	THER PLATELET PREDICTIVE	E MARKERS.		
PLATELET COUNT	(PLT) OCUSING, ELECTRICAL IMPEDENCE	254000	/cmm	150000 - 450000
PLATELETCRIT (PC		0.24	%	0.10 - 0.36
MEAN PLATELET V by HYDRO DYNAMIC F	OLUME (MPV) OCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
	CELL COUNT (P-LCC)	60000	/cmm	30000 - 90000
	CELL RATIO (P-LCR)	23.5	%	11.0 - 45.0
PLATELET DISTRIE	BUTION WIDTH (PDW)	16.1	%	15.0 - 17.0

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

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







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. MANJEET SINGH		
AGE/ GENDER	: 28 YRS/MALE	PATIENT ID	: 1756566
<b>COLLECTED BY</b>	:	REG. NO./LAB NO.	: 012502140016
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487	<b>COLLECTION DATE</b>	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 14/Feb/2025 10:55AM
<b>CLIENT ADDRESS</b>	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	
Test Name	Value	Unit	<b>Biological Reference interval</b>

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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

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







	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cor		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
AME	: Mr. MANJEET SINGH			
GE/ GENDER	: 28 YRS/MALE	PATIE	NT ID	: 1756566
<b>DLLECTED BY</b>	:	REG. N	O./LAB NO.	: 012502140016
EFERRED BY	: CENTRAL PHOENIX CLUB (A	MBALA CANTT) <b>REGIS</b>	FRATION DATE	: 14/Feb/2025 10:02 AM
RCODE NO.	: 01525487	COLLE	CTION DATE	: 14/Feb/2025 10:06AM
JENT CODE.	: KOS DIAGNOSTIC LAB	REPOI	RTING DATE	: 14/Feb/2025 11:11AM
IENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
est Name		Value	Unit	<b>Biological Reference interval</b>
ystemic lupus erythe ONDITION WITH LOV	ematosus	, , , , , , , , , , , , , , , , , , ,		ve diseases as well as some others, such as





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

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









		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mr. MANJEET SINGH			
AGE/ GENDER	: 28 YRS/MALE	PAT	IENT ID	: 1756566
COLLECTED BY	:	REG	. NO./LAB NO.	: 012502140016
REFERRED BY	: CENTRAL PHOENIX CLUB (A	AMBALA CANTT) <b>REG</b>	ISTRATION DATE	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487	COL	LECTION DATE	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 14/Feb/2025 11:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINI	CAL CHEMISTRY	//BIOCHEMIST	RY
		GLUCOSE FAS	TING (F)	
	G (F): PLASMA	105.38 <sup>H</sup>	mg/dL	NORMAL: < 100.0

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. 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.





**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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	MD (Pathology	inay ChopraDr. Yugam Choprathology & Microbiology)MD (Pathology)an & Consultant PathologistCEO & Consultant Pathologist		D (Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. MANJEET SINGH</b> : 28 YRS/MALE : : CENTRAL PHOENIX CLUB : 01525487 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAJ		COLLECTION DATE REPORTING DATE	: 1756566 <b>: 012502140016</b> : 14/Feb/2025 10:02 AM : 14/Feb/2025 10:06AM : 14/Feb/2025 12:34PM
Test Name		Value	Unit	Biological Reference interval
CHOLESTEROL TO by CHOLESTEROL OX		198.81	<b>DFILE : BASIC</b> mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
FRIGLYCERIDES: S by GLYCEROL PHOSP	ERUM PHATE OXIDASE (ENZYMATIC)	143.05	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM	37.83	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		132.37 <sup>H</sup>	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 CHOLEST by CALCULATED, SPE		160.98 <sup>H</sup>	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 CHOLESTER( by CALCULATED, SPE		28.61	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER		540.67	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	DL RATIO: SERUM	5.26 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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



Page 6 of 14





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Mr. MANJEET SINGH		
AGE/ GENDER	: 28 YRS/MALE	PATIENT ID	: 1756566
COLLECTED BY	:	REG. NO./LAB NO.	: 012502140016
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBALA CANTT	) <b>REGISTRATION DATE</b>	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487	COLLECTION DATE	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 14/Feb/2025 12:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE	0.0	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		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





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







	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam MD t CEO & Consultant	(Pathology)
NAME	: Mr. MANJEET SINGH			
AGE/ GENDER	: 28 YRS/MALE		PATIENT ID	: 1756566
<b>COLLECTED BY</b>	:		REG. NO./LAB NO.	: 012502140016
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMB	ALA CANTT)	<b>REGISTRATION DATE</b>	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487		COLLECTION DATE	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 14/Feb/2025 12:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL	ESERUM PECTROPHOTOMETRY	0.48	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.36	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	25.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	55.2 <sup>H</sup>	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.47	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	IATASE: SERUM yl phosphatase by amino methyl	153.51 <sup>H</sup>	U/L	40.0 - 130.0
GAMMA GLUTAMY by szasz, spectrof	L TRANSFERASE (GGT): SERUM	48.01	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.14	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.35	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE		2.79	gm/dL	2.30 - 3.50
A : G RATIO: SERUN by CALCULATED, SPE		1.56	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)





**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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. MANJEET SINGH		
AGE/ GENDER	: 28 YRS/MALE	PATIENT ID	: 1756566
COLLECTED BY	:	REG. NO./LAB NO.	: 012502140016
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487	<b>COLLECTION DATE</b>	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 14/Feb/2025 12:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	,	
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



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







	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mr. MANJEET SINGH			
AGE/ GENDER	: 28 YRS/MALE	P	ATIENT ID	: 1756566
<b>COLLECTED BY</b>	:	R	EG. NO./LAB NO.	: 012502140016
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AM	BALA CANTT) <b>R</b> I	EGISTRATION DATE	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487	C	OLLECTION DATE	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 14/Feb/2025 01:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNI	EY FUNCTION	TEST (COMPLETE)	
UREA: SERUM	NATE DEHYDROGENASE (GLDH)	28.19	mg/dL	10.00 - 50.00
CREATININE: SERI	UM	1.66 <sup>H</sup>	mg/dL	0.40 - 1.40
	ROGEN (BUN): SERUM	13.17	mg/dL	7.0 - 25.0
RATIO: SERUM	ROGEN (BUN)/CREATININE	7.93 <sup>L</sup>	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM	16.98	RATIO	
URIC ACID: SERUM	1	7.01	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	8.56	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by PHOSPHOMOLYBE	ERUM date, spectrophotometry	3.29	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	145.7	mmol/L	135.0 - 150.0
POTASSIUM: SERU		6.11 <sup>H</sup>	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		109.28	mmol/L	90.0 - 110.0
ESTIMATED GLON	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	IERULAR FILTERATION RATE	57.2		
NOTE 2			CHECKED TWICE	
ADVICE		KINDLY CO	RRELATE CLINICALLY	Y

**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



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

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







	MD (Pathology	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
NAME	: Mr. MANJEET SINGH						
AGE/ GENDER	: 28 YRS/MALE		PATIENT ID	: 1756	566		
COLLECTED BY			REG. NO./LAB NO	· 0125	602140016		
	·					434	
REFERRED BY	: CENTRAL PHOENIX CLUB (	(AMBALA CANTT)			eb/2025 10:02		
BARCODE NO.	: 01525487		COLLECTION DAT		eb/2025 10:06		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DAT	E : 14/Fe	eb/2025 01:39I	PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT					
Test Name		Value	Un	iit	<b>Biological</b> I	Reference inte	erval
	xia, high fever). (e.g. ureter colostomy)						
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>INCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;1</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome c</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin ther</li> </ol>	(e.g. ureter colostomy) ass (subnormal creatinine pro- tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATINII</b> (BUN rises disproportionately superimposed on renal disease <b>0:1) WITH DECREASED BUN :</b> osis. d starvation. e. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har <b>0:1) WITH INCREASED CREATIN</b> py (accelerates conversion of c eleases muscle creatinine). who develop renal failure.	NE LEVELS: more than creatine e. ffuses out of extra- sent in blood). mone) due to tubu IINE: creatine to creatini increase in creatini measurement).	cellular fluid). Jar secretion of urea ne). ine with certain met	).		ratio when deh	ydrati
<ol> <li>Reduced muscle m Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;1</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome c</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> <li>CKD STAGE</li> </ol>	(e.g. ureter colostomy) ass (subnormal creatinine pro- tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATINII</b> (BUN rises disproportionately superimposed on renal disease <b>0:1) WITH DECREASED BUN :</b> osis. ad starvation. b. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har <b>0:1) WITH INCREASED CREATIN</b> py (accelerates conversion of co eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine ULAR FILTERATION RATE: DESCRIPTION	NE LEVELS: more than creatine e. ffuses out of extra- sent in blood). mone) due to tubu increase in creatini increase in creatini measurement).	cellular fluid). Jlar secretion of urea ne).	a. hodologies,resul	FINDINGS	ratio when deh	ydrati
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>INCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;1</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome c</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin ther</li> </ol>	(e.g. ureter colostomy) ass (subnormal creatinine pro- tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATINII</b> (BUN rises disproportionately superimposed on renal disease <b>0:1) WITH DECREASED BUN :</b> osis. ad starvation. b. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har <b>0:1) WITH INCREASED CREATIN</b> py (accelerates conversion of co eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine <b>LAR FILTERATION RATE:</b> <u>DESCRIPTION</u> <u>Normal kidney fur</u> Kidney damage v	NE LEVELS: more than creating fuses out of extra- sent in blood). mone) due to tubu IINE: creatine to creatini increase in creatini measurement).	cellular fluid). Jar secretion of urea ne). ine with certain met	a. hodologies,resul ASSOCIATED No prote Presence of	FINDINGS inuria Protein ,	ratio when deh	ydrati
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>INCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>DECREASED RATIO (&lt;1</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome c</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>Should produce an in</li> <li>Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> <li>G1</li> <li>G2</li> </ol>	(e.g. ureter colostomy) ass (subnormal creatinine pro- tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATINII</b> (BUN rises disproportionately superimposed on renal disease <b>0:1) WITH DECREASED BUN :</b> osis. ad starvation. b. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har <b>0:1) WITH INCREASED CREATIN</b> py (accelerates conversion of co eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine ILAR FILTERATION RATE: DESCRIPTION Normal kidney fur Kidney damage v normal or high (	NE LEVELS: more than creating fuses out of extra- sent in blood). mone) due to tubu IINE: creatine to creatini increase in creatini measurement). I GFR (1) with GFR	cellular fluid). Jar secretion of urea ne). ine with certain met <u>mL/min/1.73m2 ) &gt;90 &gt;90</u>	a. hodologies,resul ASSOCIATED No prote	FINDINGS inuria Protein ,	ratio when deh	ydrati
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>DECREASED RATIO (&lt;1</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>SIADH (syndrome c</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>Should produce an in</li> <li>Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> <li>G1</li> <li>G2</li> </ol>	(e.g. ureter colostomy) ass (subnormal creatinine pro- tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATINII</b> (BUN rises disproportionately superimposed on renal disease <b>0:1) WITH DECREASED BUN :</b> osis. ad starvation. b. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har <b>0:1) WITH INCREASED CREATIN</b> py (accelerates conversion of c eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine <b>UAR FILTERATION RATE:</b> DESCRIPTION Normal kidney fur Kidney damage v normal or high ( Mild decrease in	NE LEVELS: more than creating e. ffuses out of extra- sent in blood). mone) due to tubu imone) due to tubu increase in creating measurement). I increase in creating measurement). I inction GFR	cellular fluid). Jar secretion of urea ne). ine with certain met <u>mL/min/1.73m2 ) &gt;90 &gt;90 60 -89</u>	a. hodologies,resul ASSOCIATED No prote Presence of	FINDINGS inuria Protein ,	ratio when deh	ydrati
8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine pro- tetracycline, glucocorticoids) <b>0:1) WITH ELEVATED CREATINII</b> (BUN rises disproportionately superimposed on renal disease <b>0:1) WITH DECREASED BUN :</b> osis. ad starvation. b. creased urea synthesis. urea rather than creatinine dif monemias (urea is virtually ab of inappropiate antidiuretic har <b>0:1) WITH INCREASED CREATIN</b> py (accelerates conversion of co eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio). apy (interferes with creatinine ILAR FILTERATION RATE: DESCRIPTION Normal kidney fur Kidney damage v normal or high (	NE LEVELS:         more than creating         e.         ffuses out of extranser         sent in blood).         mone) due to tubu         imorease in creating         increase in creating         measurement).         Image: Comparison of the second of t	cellular fluid). Jar secretion of urea ne). ine with certain met <u>mL/min/1.73m2 ) &gt;90 &gt;90</u>	a. hodologies,resul ASSOCIATED No prote Presence of	FINDINGS inuria Protein ,	ratio when deh	ydrati



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

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









: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
. KUS DIAGNUSTIC LAD		. 11/105/ 2020 01.001 M
: KOS DIAGNOSTIC LAB	REPORTING DATE	: 14/Feb/2025 01:39PM
: 01525487	COLLECTION DATE	: 14/Feb/2025 10:06AM
: CENTRAL PHOENIX CLUB (AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 14/Feb/2025 10:02 AM
:	REG. NO./LAB NO.	:012502140016
: 28 YRS/MALE	PATIENT ID	: 1756566
: Mr. MANJEET SINGH		
MD (Pathology & Microbiology)	MD	(Pathology)
	Chairman & Consultant Pathologis : Mr. MANJEET SINGH : 28 YRS/MALE : : CENTRAL PHOENIX CLUB (AMBALA CANTT)	MD (Pathology & Microbiology) Chairman & Consultant Pathologist : Mr. MANJEET SINGH : 28 YRS/MALE PATIENT ID : CENTRAL PHOENIX CLUB (AMBALA CANTT) REGISTRATION DATE

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



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

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







	Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
NAME	: Mr. MANJEET SINGH			
AGE/ GENDER	: 28 YRS/MALE	PATIENT	' ID	: 1756566
COLLECTED BY	:	REG. NO.	/LAB NO.	: 012502140016
REFERRED BY	: CENTRAL PHOENIX CLUB (A)	MBALA CANTT) <b>REGISTR</b>	ATION DATE	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487	COLLECT	ION DATE	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 14/Feb/2025 01:18PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interv
		CLINICAL PATHO		
	URINE RO	UTINE & MICROSCO		TION
PHYSICAL EXAMIN		CINE & MICHOJCO		
QUANTITY RECIEV		10	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
TRANSPARANCY		HAZY		CLEAR
by DIP STICK/REFLEC SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.0%		1.002 1.000
CHEMICAL EXAMI	<u>NATION</u>			
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
pH bv DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.			
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	TRACE		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EX				
RED BLOOD CELLS	(RBCs)	1-2	/HPF	0 - 3



am

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 Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

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

NAME	: Mr. MANJEET SINGH		
AGE/ GENDER	: 28 YRS/MALE	PATIENT ID	: 1756566
COLLECTED BY	:	REG. NO./LAB NO.	: 012502140016
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBALA CANTT	) REGISTRATION DATE	: 14/Feb/2025 10:02 AM
BARCODE NO.	: 01525487	<b>COLLECTION DATE</b>	: 14/Feb/2025 10:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 14/Feb/2025 01:18PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval
by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT		
PUS CELLS	2-4	/HPF	0 - 5

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/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 CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

\*\* End Of Report \*\*\*





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

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

