



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mr. AJAY GOEL				
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 174362	21
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:01250)2030038
REFERRED BY	:		REGISTRATION DATE	:03/Feb	o/2025 11:18 AM
BARCODE NO.	: 01524880		COLLECTION DATE	:03/Feb	o/2025 11:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:03/Feb	o/2025 12:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT			
Test Name		Value	Unit		Biological Reference interval
PED BLOOD CELLS			LLNESS PANEL: 1.(OOD COUNT (CBC)		
HAEMOGLOBIN (HI		10.5 ^L	gm/dL		12.0 - 17.0
by CALORIMETRIC			U U		
RED BLOOD CELL () by HYDRO DYNAMIC F	RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	3.79	Millions/	cmm	3.50 - 5.00
PACKED CELL VOLU	JME (PCV)	34.7 ^L	%		40.0 - 54.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER AR VOLUME (MCV)	91.6	fL		80.0 - 100.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER				
by CALCULATED BY A	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	27.8	pg		27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30.3 ^L	g/dL		32.0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	14.4	%		11.00 - 16.00
-	UTION WIDTH (RDW-SD)	50.2	fL		35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	24.17	RATIO		BETA THALASSEMIA TRAIT: <
by CALCULATED		24.17	KATIO		13.0
					IRON DEFICIENCY ANEMIA:
GREEN & KING IND	DEX	34.92	RATIO		>13.0 BETA THALASSEMIA TRAIT:<=
by CALCULATED					65.0
					IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEI	LLS (WBCS)				00.0
TOTAL LEUCOCYTE	COUNT (TLC)	11440 ^H	/cmm		4000 - 11000
NUCLEATED RED B	' BY SF CUBE & MICROSCOPY LOOD CELLS (nRBCS) RT HEMATOLOGY ANAL VZER	NIL			0.00 - 20.00
NUCLEATED RED B	LOOD CELLS (nRBCS) %	NIL	%		< 10 %
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER				
สมหรัสสาวาร			~		





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
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Vinay Chopra



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

NAME	: Mr. AJAY GOEL		
AGE/ GENDER	: 54 YRS/MALE	PATIENT ID	: 1743621
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502030038
REFERRED BY	:	REGISTRATION DATE	: 03/Feb/2025 11:18 AM
BARCODE NO.	: 01524880	COLLECTION DATE	:03/Feb/202511:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:03/Feb/202512:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	71 ^H	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	18 ^L	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8122 ^H	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2059	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	572 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	686	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	238000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.27	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	11	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	85000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	35.6	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.6	%	15.0 - 17.0



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: Ilnd 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 Cho MD (Pathology & M Chairman & Consu	1icrobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. AJAY GOEL			
AGE/ GENDER	: 54 YRS/MALE	РАТ	IENT ID	: 1743621
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	: 012502030038
REFERRED BY	:	REG	ISTRATION DATE	:03/Feb/2025 11:18 AM
ARCODE NO.	: 01524880	COL	LECTION DATE	:03/Feb/2025 11:20AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 03/Feb/2025 12:51PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
	ERY I HRO DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	33 ^H	TATION RATE (mm/1st	
mmune disease, but An ESR can be affe s C-reactive protein this test may also ystemic lupus erythe CONDITION WITH LOV Now ESR can be see polycythaemia), sigr s sickle cells in sickl	does not tell the health practitione cted by other conditions besides in be used to monitor disease activity ematosus W ESR n with conditions that inhibit the n nificantly high white blood cell cour e cell anaemia) also lower the ESR	er exactly where the iflammation. For this and response to the normal sedimentatio nt (leucocytosis), ar	inflammation is in the s reason, the ESR is ty erapy in both of the a n of red blood cells, s	picallý used in conjunction with other test such bove diseases as well as some others, such as
	o protoin (C-RP) are both markers c	of inflammation.		
 ESR and C - reactiv Generally, ESR doe CRP is not affected If the ESR is elevat Women tend to ha Drugs such as dext 	es not change as rapidly as does CRI by as many other factors as is ESR, ed, it is typically a result of two typ ye a higher ESR, and menstruation	making it a better m bes of proteins, glob and pregnancy can d	arker of inflammatior ulins or fibrinogen. ause temporary eleva	1.
 CRP is not affected If the ESR is elevat Women tend to ha Drugs such as dext 	es not change as rapidly as does CRI by as many other factors as is ESR, ed, it is typically a result of two typ ve a higher ESR, and menstruation ran, methyldopa, oral contraceptiv	making it a better m bes of proteins, glob and pregnancy can d	arker of inflammatior ulins or fibrinogen. ause temporary eleva	n. Itions.





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



Page 3 of 13





	MD (F	/inay Chopra Pathology & Microbiology) nan & Consultant Pathologist	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mr. AJAY GOEL			
AGE/ GENDER	: 54 YRS/MALE	PA	TIENT ID	: 1743621
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012502030038
REFERRED BY	:	RE	GISTRATION DATE	:03/Feb/2025 11:18 AM
BARCODE NO.	:01524880	CO	LLECTION DATE	: 03/Feb/2025 11:20AM
CLIENT CODE.	: KOS DIAGNOSTIC	LAB RE	PORTING DATE	: 03/Feb/2025 01:23PM
CLIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMISTR	Y/BIOCHEMIST	RY
		GLUCOSE FA	STING (F)	
GLUCOSE FASTIN	G (F): PLASMA Se - peroxidase (god-p	129.1 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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.

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





		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. AJAY GOEL : 54 YRS/MALE : SURJESH : : 01524880 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	H F C F	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1743621 : 012502030038 : 03/Feb/2025 11:18 AM : 03/Feb/2025 11:20AM : 03/Feb/2025 01:23PM
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		138.47	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM PHATE OXIDASE (ENZYMATIC)	159.12 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM ion	37.84	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		68.81	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		100.63	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(31.82	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER	RUM	436.06	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE		3.66	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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 Ch MD (Pathology & Chairman & Con:	Microbiology)		(Pathology)
NAME	: Mr. AJAY GOEL			
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 1743621
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012502030038
REFERRED BY	:		REGISTRATION DATE	: 03/Feb/2025 11:18 AM
BARCODE NO.	: 01524880		COLLECTION DATE	: 03/Feb/2025 11:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 03/Feb/2025 01:23PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT	2	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by calculated, spe		1.82	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	4.21	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





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 Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. AJAY GOEL AGE/ GENDER : 54 YRS/MALE **PATIENT ID** :1743621 **COLLECTED BY** : SURJESH :012502030038 REG. NO./LAB NO. **REFERRED BY** : **REGISTRATION DATE** :03/Feb/2025 11:18 AM **BARCODE NO.** :01524880 **COLLECTION DATE** :03/Feb/2025 11:20AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :03/Feb/202501:23PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) BILIRUBIN TOTAL: SERUM 0.29 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 DILIDIDIN DIDECT (CONILICATED), CEDIM 0 1 9 ma/dI 0.00 0.40

BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.17	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	28	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	28.5	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.98	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by Amino Methyl PROPANOL	71.29	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	24.26	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.68	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.39	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	3.29	gm/dL	2.30 - 3.50
A : G RATIO: SERUM	1.33	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)





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 Chop MD (Pathology & Mid Chairman & Consulta	crobiology) MD	(Pathology)
NAME	: Mr. AJAY GOEL		
AGE/ GENDER	: 54 YRS/MALE	PATIENT ID	: 1743621
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502030038
REFERRED BY	:	REGISTRATION DATE	: 03/Feb/2025 11:18 AM
BARCODE NO.	: 01524880	COLLECTION DATE	:03/Feb/202511:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 03/Feb/2025 01:23PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA 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).

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)

 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 Chop MD (Pathology & Mi Chairman & Consult		1icrobiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)	
NAME	: Mr. AJAY GOEL				
AGE/ GENDER			PATIENT ID	: 1743621 : 012502030038	
COLLECTED BY			REG. NO./LAB NO.		
REFERRED BY		REGISTRATION DATE		: 03/Feb/2025 11:18 AM	
BARCODE NO.			COLLECTION DATE	:03/Feb/202511:20AM	
CLIENT CODE.			REPORTING DATE	: 03/Feb/2025 02:13PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interv	
	KIDNI	EY FUNCTION	N TEST (COMPLETE)		
UREA: SERUM	ATE DEHYDROGENASE (GLDH)	54.21 ^H	mg/dL	10.00 - 50.00	
CREATININE: SERUM		2.66 ^H	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC	TROPHOTOMETERY OGEN (BUN): SERUM	25.33 ^H	mg/dL	7.0 - 25.0	
by CALCULATED, SPE	CTROPHOTOMETRY	23.33	-		
BLOOD UREA NITR RATIO: SERUM	COGEN (BUN)/CREATININE	9.52 ^L	RATIO	10.0 - 20.0	
by CALCULATED, SPE	CTROPHOTOMETRY				
UREA/CREATININI		20.38	RATIO		
by CALCULATED, SPE URIC ACID: SERUM		7.69	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS					
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	8.95	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SE	RUM	2.93	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBD ELECTROLYTES	ATE, SPECTROPHOTOMETRY				
SODIUM: SERUM		139.5	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV					
POTASSIUM: SERUM		5.92 ^H	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)		104.63	mmol/L	90.0 - 110.0	
ESTIMATED GLOM	IERULAR FILTERATION RATE				
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	27.6			

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 glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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

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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	М	Pr. Vinay Chopra D (Pathology & Micro hairman & Consultant		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. AJAY GOE	L				
AGE/ GENDER	: 54 YRS/MALE		PATI	ENT ID	: 1743621	
COLLECTED BY	: SURJESH			NO./LAB NO.	: 01250203003	20
	. SUMESH					
REFERRED BY	:			STRATION DATE	:03/Feb/20251	
BARCODE NO.	:01524880			ECTION DATE	:03/Feb/20251	
CLIENT CODE.	: KOS DIAGNOS	TIC LAB	REPO	RTING DATE	:03/Feb/20250	2:13PM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBAI	LA CANTT			
Test Name			Value	Unit	Biolog	ical Reference interval
9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<'	tetracycline, gluco 0:1) WITH ELEVAT (BUN rises disprosed on superimposed on 10:1) WITH DECRE	ED CREATININE LEVEL portionately more th renal disease.		.g. obstructive urop	athy).	
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome (8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI OKD STAGE	tetracycline, glucc 0:1) WITH ELEVAT (BUN rises dispro- superimposed on 10:1) WITH DECRE/ osis. ad starvation. b. creased urea synt urea rather than urea rather than urea rather than of inappropiate an 10:1) WITH INCREA py (accelerates co- eleases muscle cr who develop rena : sis (acetoacetate creased BUN/crea apy (interferes wi JLAR FILTERATION	eatinine production) bocorticoids) ED CREATININE LEVEL oportionately more th renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine f eatinine). al failure. causes false increase atinine ratio). th creatinine measure RATE: DESCRIPTION	an creatinine) (e t of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/mir	fluid). retion of urea. h certain methodol	logies,resulting in noi	rmal ratio when dehydrat
 2. Certain drugs (e.g., INCREASED RATIO (>2 2. Prerenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 2. DecREASED RATIO (< 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 6. Pregnancy, DECREASED RATIO (7. SIADH (syndrome of 8. Pregnancy, DECREASED RATIO (8. Muscular patients 1. Diabetic ketoacido 9. Muscular patients 1. Diabetic ketoacido 9. Cephalosporin their 2. Cephalosporin their 2. CERASED RATED GLOMERI 0. KAD STAGE 6. G1 	tetracycline, glucc 0:1) WITH ELEVAT (BUN rises dispro- superimposed on 10:1) WITH DECRE/ osis. ad starvation. b. creased urea synt urea rather than urea rather than urea rather than of inappropiate an 10:1) WITH INCREA py (accelerates co- eleases muscle cr who develop rena : sis (acetoacetate creased BUN/crea apy (interferes wi JLAR FILTERATION Norm	eatinine production) bocorticoids) ED CREATININE LEVEL oportionately more th renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine f eatinine). al failure. causes false increase atinine ratio). th creatinine measure RATE: DESCRIPTION al kidney function	an creatinine) (e t of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/mir >90	fluid). retion of urea. h certain methodol	logies,resulting in noi SSOCIATED FINDINGS No proteinuria	
2. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<' 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (<' 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera ESTIMATED GLOMERL OKD STAGE	tetracycline, gluc: 0:1) WITH ELEVAT (BUN rises dispro- superimposed on 10:1) WITH DECRE/ osis. ad starvation. e. creased urea synt urea rather than urea rather than urea rather than of inappropiate an 10:1) WITH INCREA py (accelerates co- eleases muscle cr who develop rena : sis (acetoacetate creased BUN/crea apy (interferes wi JLAR FILTERATION Norm	eatinine production) bocorticoids) ED CREATININE LEVEL oportionately more th renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine f eatinine). al failure. causes false increase atinine ratio). th creatinine measure RATE: DESCRIPTION al kidney function ney damage with	an creatinine) (e t of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/mir	fluid). retion of urea. h certain methodol	logies,resulting in nor SSOCIATED FINDINGS No proteinuria Presence of Protein ,	
 Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<' Acute tubular necr Low protein diet and Severe liver diseas Other causes of degination of the second dialysis of the second dialysi	tetracycline, gluc: 0:1) WITH ELEVAT (BUN rises dispro- superimposed on 10:1) WITH DECRE/ osis. ad starvation. b. creased urea synt urea rather than urea rather than the synt urea rather than of inappropiate an 10:1) WITH INCREA py (accelerates co- eleases muscle cr who develop rena : sis (acetoacetate creased BUN/creation JLAR FILTERATION Norm Kidin nor	eatinine production) bocorticoids) ED CREATININE LEVEL oportionately more th renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine f eatinine). al failure. causes false increase atinine ratio). th creatinine measure RATE: DESCRIPTION al kidney function	an creatinine) (e t of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/mir >90 >90	fluid). retion of urea. h certain methodol	logies,resulting in noi SSOCIATED FINDINGS No proteinuria	
 A. Certain drugs (e.g., INCREASED RATIO (>2 I. Postrenal azotemia Decreased RATIO (< I. Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy, DECREASED RATIO (< Rhabdomyolysis (r Muscular patients Muscular patients Mappropiate RATIO Liabetic ketoacido Should produce an in Cephalosporin there ESTIMATED GLOMERI G1 	tetracycline, gluc: 0:1) WITH ELEVAT (BUN rises dispro- superimposed on 10:1) WITH DECRE/ osis. ad starvation. b. creased urea synt urea rather than urea rather than monemias (urea i of inappropiate an 10:1) WITH INCREA py (accelerates co- eleases muscle cr who develop rena : sis (acetoacetate creased BUN/crea apy (interferes wi <u>JLAR FILTERATION</u> <u>Norm</u> <u>Kidi</u> nor	eatinine production) bocorticoids) ED CREATININE LEVEL oportionately more th renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine f eatinine). al failure. causes false increase atinine ratio). th creatinine measure RATE: DESCRIPTION al kidney function ney damage with mal or high GFR	an creatinine) (e t of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/mir >90	fluid). retion of urea. h certain methodol	logies,resulting in nor SSOCIATED FINDINGS No proteinuria Presence of Protein ,	
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI G1 G2 G3a	tetracycline, gluc: 0:1) WITH ELEVAT (BUN rises dispro- superimposed on 10:1) WITH DECRE/ osis. ad starvation. e. creased urea synt urea rather than monemias (urea i of inappropiate an 10:1) WITH INCRE/ py (accelerates co- eleases muscle cr who develop rena : sis (acetoacetate creased BUN/crea apy (interferes wi <u>JLAR FILTERATION</u> 	eatinine production) bocorticoids) ED CREATININE LEVEL oportionately more th renal disease. ASED BUN : hesis. creatinine diffuses ou s virtually absent in b tidiuretic harmone) d SED CREATININE: onversion of creatine to eatinine). al failure. causes false increase tinine ratio). th creatinine measure RATE: DESCRIPTION al kidney function ney damage with mal or high GFR	an creatinine) (e t of extracellular lood). ue to tubular sec to creatinine). in creatinine wit ement). GFR (mL/mir >90 >90 60 -8	fluid). retion of urea. h certain methodol	logies,resulting in nor SSOCIATED FINDINGS No proteinuria Presence of Protein ,	



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









Test Name		Value Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 03/Feb/2025 02:13PM
BARCODE NO.	: 01524880	COLLECTION DATE	: 03/Feb/2025 11:20AM
REFERRED BY	:	REGISTRATION DATE	:03/Feb/2025 11:18 AM
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012502030038
AGE/ GENDER	: 54 YRS/MALE	PATIENT ID	: 1743621
NAME	: Mr. AJAY GOEL		
	MD (Pathology & Micro Chairman & Consultan	obiology) ME	D (Pathology)
	Dr. Vinay Chopra	l Dr Yugar	n Chopra

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)

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







SO 9001 : 2008 CERT	IFIED LAB		EXCE	LLENCE IN HEALTHCARE	& DIAGNOSTICS	
		hopra & Microbiology) onsultant Patholog	ist CE0	Dr. Yugam MD O & Consultant	(Pathology)	
NAME	: Mr. AJAY GOEL					
AGE/ GENDER	: 54 YRS/MALE		PATIENT I	D	: 1743621	
COLLECTED BY	: SURJESH		REG. NO./LAB NO. REGISTRATION DATE		: 012502030038	
REFERRED BY	:				ATE : 03/Feb/2025 11:18 AM	
BARCODE NO.	:01524880		COLLECTIO	ON DATE	:03/Feb/202511:20AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING		: 03/Feb/2025 12:01PM	
CLIENT ADDRESS	CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value		Unit	Biological Reference interval	
PHYSICAL EXAMI	NATION	OUTINE & MI	CROSCOP		ATION	
QUANTITY RECIEV		10		ml		
COLOUR	TANCE SPECTROPHOTOMETRY	AMBER	YELLOW		PALE YELLOW	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY					
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	HAZY			CLEAR	
SPECIFIC GRAVITY		1.01			1.002 - 1.030	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY					
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC				
PROTEIN	TANCE SPECTROPHOTOMETRY	Negativ	e		NEGATIVE (-ve)	
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negativ	e		NEGATIVE (-ve)	
pH	TANCE SPECTROPHOTOMETRY	<=5.0			5.0 - 7.5	
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negativ	e		NEGATIVE (-ve)	
NITRITE		Negativ	e		NEGATIVE (-ve)	
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	Normal		EU/dL	0.2 - 1.0	
	•• •					

Negative

TRACE

NEGATIVE (-ve)

NEGATIVE (-ve)

KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **MICROSCOPIC EXAMINATION**

RED BLOOD CELLS (RBCs)



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

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

0 - 3

/HPF

NEGATIVE (-ve)

NEGATIVE (-ve)

NEGATIVE (-ve)







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



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

NAME	: Mr. AJAY GOEL			
AGE/ GENDER	: 54 YRS/MALE	РА	TIENT ID	: 1743621
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012502030038
REFERRED BY	:	RE	GISTRATION DATE	: 03/Feb/2025 11:18 AM
BARCODE NO.	: 01524880	CO	LLECTION DATE	: 03/Feb/2025 11:20AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 03/Feb/2025 12:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	15-20	/HPF	0 - 5
EPITHELIAL CELLS	5	1-3	/HPF	ABSENT

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)

 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

