



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)		(Pathology)	
NAME	: Mr. RAMESH				
AGE/ GENDER	: 47 YRS/MALE		PATIENT ID	: 1800209	
COLLECTED BY	:		REG. NO./LAB NO.	:012503210021	
REFERRED BY	: DR. KARAN SOBTI		REGISTRATION DATE	: 21/Mar/2025 08:59 AM	
BARCODE NO.	: 01527486		COLLECTION DATE	: 21/Mar/2025 10:27AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 21/Mar/2025 09:58AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT			
Test Name		Value	Unit	Biological Refer	ence interval
	SWAST	'HYA WI	ELLNESS PANEL: G		
	СОМР	LETE BL	OOD COUNT (CBC)		
RED BLOOD CELLS	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HE	3)	14.7	gm/dL	12.0 - 17.0	
RED BLOOD CELL (H	RBC) COUNT DCUSING, ELECTRICAL IMPEDENCE	5.38 ^H	Millions	7 cmm 3.50 - 5.00	
PACKED CELL VOLU		44.7	%	40.0 - 54.0	
MEAN CORPUSCULA		83	fL	80.0 - 100.0	
MEAN CORPUSCULA	AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	27.2	pg	27.0 - 34.0	
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	32.8	g/dL	32.0 - 36.0	
RED CELL DISTRIBU	JTION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	14.3	%	11.00 - 16.00	
RED CELL DISTRIBU	JTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	44.7	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		15.43	RATIO	BETA THALASS 13.0 IRON DEFICIEN	
GREEN & KING IND by CALCULATED	EX	21.96	RATIO	>13.0 BETA THALASS 65.0	
				IRON DEFICIEN 65.0	CY ANEMIA: >
WHITE BLOOD CEL					
TOTAL LEUCOCYTE by FLOW CYTOMETRY	COUNT (TLC) BY SF CUBE & MICROSCOPY	7280	/cmm	4000 - 11000	
NUCLEATED RED B	LOOD CELLS (nRBCS) T HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
	LOOD CELLS (nRBCS) %	NIL	%	< 10 %	





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

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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by SF cube & microscopy	57	%	50 - 70
LYMPHOCYTES by flow cytometry by sf cube & microscopy	31	%	20 - 40
EOSINOPHILS by flow cytometry by SF cube & microscopy	6	%	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	4150	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	2257	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by SF cube & microscopy	437	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by flow cytometry by SF cube & microscopy	437	/cmm	80 - 880
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	197000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.25	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	92000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	46.9 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.7	%	15.0 - 17.0



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 21/Mar/2025 01:47PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
	GLYCC EMOGLOBIN (HbA1c):	DSYLATED HAEMO 6.3	OGLOBIN (HBA1C %	2) 4.0 - 6.4
WHOLE BLOOD	EMOGLOBIN (HbA1c):			
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA				
WHOLE BLOOD by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE	6.3	%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN	6.3 134.11 DIABETES ASSOCIATION	% mg/dL (ADA):	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	6.3 134.11 DIABETES ASSOCIATION	% mg/dL (ADA): /LATED HEMOGLOGIB (4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT dia	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.3 134.11 DIABETES ASSOCIATION	% mg/dL (ADA): /LATED HEMOGLOGIB (<5.7	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT dia Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.3 134.11 DIABETES ASSOCIATION	% mg/dL (ADA): /LATED HEMOGLOGIB (<5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT dia Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.3 134.11 DIABETES ASSOCIATION	% mg/dL (ADA): /LATED HEMOGLOGIB (<5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT dia Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.3 134.11 DIABETES ASSOCIATION GLYCOSY	% mg/dL (ADA): /LATED HEMOGLOGIB (<5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NON dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	6.3 134.11 DIABETES ASSOCIATION GLYCOSY GOals of The	% mg/dL (ADA): (ADA): (ATED HEMOGLOGIB (<5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NON dia A D	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.3 134.11 DIABETES ASSOCIATION GLYCOSY	% mg/dL (ADA): (ADA): (ATED HEMOGLOGIB (<5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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DR. KARAN SOBTI	PFO		: 1800209
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01527486	COI	LECTION DATE	: 21/Mar/2025 10:27AM
KOS DIAGNOSTIC LAB	REF	ORTING DATE	: 21/Mar/2025 10:37AM
6349/1, NICHOLSON ROAD, AM	BALA CANTT		
	Value	Unit	Biological Reference interval
is not tell the health practitioner I by other conditions besides inflused to monitor disease activity a tosus SR ith conditions that inhibit the no antly high white blood cell cour- ell anaemia) also lower the ESR. otein (C-RP) are both markers of ot change as rapidly as does CRP, as many other factors as is ESR, n it is typically a result of two type higher ESR, and menstruation a	r exactly where the lammation. For thi and response to th ormal sedimentatio t (leucocytosis), a f inflammation. , either at the star making it a better n es of proteins, glob and prognancy can	inflammation is in the s reason, the ESR is type erapy in both of the a on of red blood cells, sind some protein abno tof inflammation or as harker of inflammatior ulins or fibrinogen. cause temporary eleva	picallý used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (suci s it resolves. n. utions.
highe meth	er ESR, and menstruation a lyldopa, oral contraceptive	r ESR, and menstruation and pregnancy can only yldopa, oral contraceptives, penicillamine p	r ESR, and menstruation and pregnancy can cause temporary eleva yldopa, oral contraceptives, penicillamine procainamide, theophy





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Page 4 of 15





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BARCODE NO.	:01527486	COLL	ECTION DATE	: 21/Mar/2025 10:27AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 21/Mar/2025 11:35AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY		RY
		GLUCOSE FAST		
CI LICOSE EASTING	F (F): PLASMA E - PEROXIDASE (GOD-POD)	108.87 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		159.44	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSI	SERUM PHATE OXIDASE (ENZYMATIC)	81.14	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	DL (DIRECT): SERUM TION	57.95	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE	L: SERUM ECTROPHOTOMETRY	85.26	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 CHOLES by CALCULATED, SPE	TEROL: SERUM ECTROPHOTOMETRY	101.49	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		16.23	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI	ectrophotometry RUM ectrophotometry	400.02	mg/dL	350.00 - 700.00
CHOLESTEROL/HI		2.75	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0





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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.47	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 ECTROPHOTOMETRY	1.4 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Test Name	Value	Unit	Biological Deference interval

Test Name	Value	Unit	Biological Reference interval
LIVER	FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.85	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 INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.64	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	33.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	42.4	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.8	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	82.25	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	26.45	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.15	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.31	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.84	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.52	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)





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AGE/ GENDER	: 47 YRS/MALE	PATIENT ID	: 1800209
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REFERRED BY	: DR. KARAN SOBTI	REGISTRATION DATE	: 21/Mar/2025 08:59 AM
BARCODE NO.	: 01527486	COLLECTION DATE	: 21/Mar/2025 10:27AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Mar/2025 12:12PM
CLIENT ADDRESS	: 6349/1. NICHOLSON ROAD. AMBALA CAN	NTT	

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).

PROGNOS	FIC SIGNIE	FICANCE:

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

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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology) MD		(Pathology)	
NAME	: Mr. RAMESH				
AGE/ GENDER	: 47 YRS/MALE	I	PATIENT ID	: 1800209	
COLLECTED BY	:	1	REG. NO./LAB NO.	: 012503210021	
REFERRED BY	: DR. KARAN SOBTI]	REGISTRATION DATE	: 21/Mar/2025 08:59 AM	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 21/Mar/2025 12:55PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	KIDN	EY FUNCTIO	N TEST (COMPLETE)		
UREA: SERUM by UREASE - GLUT	AMATE DEHYDROGENASE (GLDH)	21.27	mg/dL	10.00 - 50.00	
CREATININE: SE		1.09	mg/dL	0.40 - 1.40	
	FROGEN (BUN): SERUM	9.94	mg/dL	7.0 - 25.0	
RATIO: SERUM	TROGEN (BUN)/CREATININE	9.12 ^L	RATIO	10.0 - 20.0	
UREA/CREATINI	NE RATIO: SERUM PECTROPHOTOMETRY	19.51	RATIO		
URIC ACID: SERU by URICASE - OXID		6.79	mg/dL	3.60 - 7.70	
CALCIUM: SERUM		9.89	mg/dL	8.50 - 10.60	
	SERUM BDATE, SPECTROPHOTOMETRY	3.99	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM by ISE (ION SELECT		141.3	mmol/L	135.0 - 150.0	
POTASSIUM: SER by ISE (ION SELECT		4.38	mmol/L	3.50 - 5.00	

CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)

ESTIMATED GLOMERULAR FILTERATION RATE

ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM

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.

105.98

84.2

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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90.0 - 110.0

mmol/L

by CALCULATED





		Dr. Vinay Chopra	1	Dr. Yugar	n Chopra		
		MD (Pathology & Microt Chairman & Consultant) (Pathology)		
NAME	: Mr. RAMESI	I					
GE/ GENDER	: 47 YRS/MAL	F.	PATI	ENT ID	: 1800209		
OLLECTED BY		_		NO./LAB NO.	: 01250321002	1	
EFERRED BY	: DR. KARAN S	OBII		STRATION DATE	: 21/Mar/2025 0		
ARCODE NO.	:01527486		COLL	ECTION DATE	:21/Mar/20251	0:27AM	
LIENT CODE.	: KOS DIAGNO	STIC LAB	REPO	REPORTING DATE		2:55PM	
LIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBAL	A CANTT				
Fest Name		T	alue	Unit	Biologi	cal Reference inte	rval
 Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia 	ass (subnormal tetracycline, glu 0:1) WITH ELEV (BUN rises disp superimposed o	creatinine production) cocorticoids) I TED CREATININE LEVELS roportionately more than n renal disease.		g. obstructive urop	athy).		
 Certain drugs (e.g., NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Prerenal azotemia CECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (SIADH (syndrome c Pregnancy. PCEREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin there 	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. 2. creased urea syn urea rather than monemias (urea f inappropiate a 0:1) WITH INCRI py (accelerates o eleases muscle o who develop ref sis (acetoacetat creased BUN/cro apy (interferes o	creatinine production) cocorticoids) TED CREATININE LEVELS roportionately more that n renal disease. EASED BUN : In creatinine diffuses our is virtually absent in bl ntidiuretic harmone) du EASED CREATININE: conversion of creatine t creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measure N RATE:	an creatinine) (e. c of extracellular ood). ue to tubular sec o creatinine). n creatinine wit ment).	fluid). retion of urea. n certain methodol	ogies,resulting in nor	mal ratio when dehy	ydratio
Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL OKD STAGE	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. 2: creased urea syn urea rather than monemias (urea f inappropiate a 0:1) WITH INCRI py (accelerates o eleases muscle o who develop ref sis (acetoacetat creased BUN/cro apy (interferes o ULAR FILTERATIO	creatinine production) cocorticoids) TED CREATININE LEVELS roportionately more that n renal disease. EASED BUN : the creatinine diffuses our is virtually absent in bl ntidiuretic harmone) du EASED CREATININE: conversion of creatine t creatinine). hal failure. the causes false increase extinine ratio). with creatinine measure N RATE: DESCRIPTION	an creatinine) (e. c of extracellular ood). ue to tubular sec o creatinine). n creatinine wit ment). GFR (mL/min	fluid). retion of urea. n certain methodol	ogies,resulting in nor SSOCIATED FINDINGS	mal ratio when dehy	ydratio
Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. 2. creased urea syn urea rather than monemias (urea f inappropiate a f inappropiate a 0:1) WITH INCRE py (accelerates o eleases muscle o who develop rel sis (acetoacetat creased BUN/cro apy (interferes v LAR FILTERATIO	creatinine production) cocorticoids) TED CREATININE LEVELS roportionately more that n renal disease. EASED BUN : In creatinine diffuses our is virtually absent in bl ntidiuretic harmone) du EASED CREATININE: conversion of creatine t creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function dney damage with	an creatinine) (e. c of extracellular ood). ue to tubular sec o creatinine). n creatinine wit ment).	fluid). retion of urea. n certain methodol	ogies,resulting in nor SSOCIATED FINDINGS No proteinuria Presence of Protein ,		ydratio
Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE G1	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. 2. creased urea syn urea rather than monemias (urea f inappropiate a f inappropiate a 0:1) WITH INCRE py (accelerates o eleases muscle o who develop rea sis (acetoacetat creased BUN/cro apy (interferes v ILAR FILTERATIO	creatinine production) cocorticoids) TED CREATININE LEVELS roportionately more that n renal disease. EASED BUN : In creatinine diffuses our is virtually absent in bl ntidiuretic harmone) du EASED CREATININE: conversion of creatine t creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function	an creatinine) (e. c of extracellular ood). ue to tubular sec o creatinine). n creatinine wit ment). GFR (mL/min >90	fluid). retion of urea. n certain methodol	ogies,resulting in nor SSOCIATED FINDINGS No proteinuria		ydratio
B. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rabdomyolysis (r Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther <u>STIMATED GLOMERU</u> <u>G1</u> <u>G2</u>	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. 2: creased urea syn urea rather than monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop ref sis (acetoacetat creased BUN/cro apy (interferes v LAR FILTERATIO	creatinine production) cocorticoids) TED CREATININE LEVELS roportionately more that n renal disease. EASED BUN : In creatinine diffuses our is virtually absent in bl ntidiuretic harmone) du EASED CREATININE: conversion of creatine t creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measure NATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR_	an creatinine) (e. c of extracellular ood). ue to tubular sec o creatinine). n creatinine wit ment). GFR (mL/min >90 >90	fluid). retion of urea. n certain methodol	ogies,resulting in nor SSOCIATED FINDINGS No proteinuria Presence of Protein ,		ydratio
B. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (<1 Nhenacimide thera Rhabdomyolysis (r Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther <u>STIMATED GLOMERU</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u> <u>G3a</u>	ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. Id starvation. 2: creased urea sylurea rather that monemias (urea f inappropiate a 0:1) WITH INCRE py (accelerates of eleases muscle of who develop ref sis (acetoacetat creased BUN/cro apy (interferes v LAR FILTERATIO	creatinine production) cocorticoids) TED CREATININE LEVELS roportionately more that n renal disease. EASED BUN : In creatinine diffuses our is virtually absent in bl ntidiuretic harmone) du EASED CREATININE: conversion of creatine t creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measure N RATE: DESCRIPTION mal kidney function dney damage with prmal or high GFR Id decrease in GFR	an creatinine) (e. c of extracellular ood). ue to tubular sec o creatinine). n creatinine wit ment). GFR (mL/min >90 >90 60 -8	fluid). retion of urea. n certain methodol /1.73m2) AS P Alt 9 9	ogies,resulting in nor SSOCIATED FINDINGS No proteinuria Presence of Protein ,		ydratio





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









	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path		(Pathology)
NAME	: Mr. RAMESH		
AGE/ GENDER	: 47 YRS/MALE	PATIENT ID	: 1800209
COLLECTED BY	:	REG. NO./LAB NO.	: 012503210021
REFERRED BY	: DR. KARAN SOBTI	REGISTRATION DATE	: 21/Mar/2025 08:59 AM
BARCODE NO.	: 01527486	COLLECTION DATE	: 21/Mar/2025 10:27AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Mar/2025 12:55PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	ANTT	
Test Name	Valu	e 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





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

MBBS, MD (PATHOLOGY)

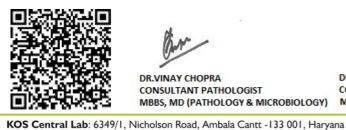






	MD (Pathology & Chairman & Cons			(Pathology) Pathologist
NAME	: Mr. RAMESH			
AGE/ GENDER	: 47 YRS/MALE		PATIENT ID	: 1800209
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
		Value	Unit	Biological Reference interval
Test Name				
Test Name	IMM	UNOPATH	DLOGY/SEROLOGY	ť
Test Name			DLOGY/SEROLOGY PROTEIN (CRP)	r i
				Y 0.0 - 6.0

and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

NOTE:

Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.
 Oral contraceptives may increase CRP levels.

KOS Diagnostic Lab (A Unit of KOS Healthcare)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
AGE/ GENDER : 4 COLLECTED BY : REFERRED BY : 1 BARCODE NO. : 0 CLIENT CODE. : F	Mr. RAMESH 47 YRS/MALE DR. KARAN SOBTI 01527486 KOS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAD, AMB	REG. REG) COLI REP(IENT ID NO./LAB NO. ISTRATION DATE LECTION DATE ORTING DATE	: 1800209 : 012503210021 : 21/Mar/2025 08:59 AM : 21/Mar/2025 10:27AM : 21/Mar/2025 03:26PM
Test Name		Value	Unit	Biological Reference interval
	RHEUMATOID F	ACTOR (RA):	QUANTITATIVE	- SERUM
 Over 75% of patients w useful although it may no Inflammatory Markers The titer of RF correlated The test is useful for description of the test is useful for description Rheumatoid Arthiritis is membrane lining (synoving) The disease spredas from the disease spreads f	A): F) are antibodies that are directed with rheumatoid arthritis (RA) have by be etiologically related to RA. such as ESR & C-Reactive protein es poorly with disease activity, bu lagnosis and prognosis of rheumative is a systemic autoimmune disease um) joints which ledas to progress om small to large joints, with great primarily based on clinical, radiol r. for Rheumatoid arthiritis, as it is on leumatoid arthritis (RA) populations active titer and 8% of nonrheumato ponrheumatoid diseases, characterized rmyositis, tuberculosis, syphilis, virat covered in joints of patients with RA	e an IgM antibody (CRP) are normal t those patients w atoid arthritis. e that is multi-fun sive joint destruc atest damage in ea ogical & immunol ften present in hea s are not clearly se oid patients have a ed by chronic inflar al hepatitis, infection A, but not in other iritis also show An	y to IgG immunoglobu in about 60 % of patie ith high titers tend to ctional in origin and i tion and in most case arly phase. logical features. The n plate with regard to positive titer). numation may have po pous mononucleosis, an form of joint disease. A ti-CCP antibodies.	ulin. This autoantibody (RF) is diagnostically ents with positive RA. b have more severe disease course. is characterized by chronic inflammation of the es to disability and reduction of quality life. most frequent serological test is the other autoimmune diseases and chronic infections the presence of rheumatoid factor (RF) (15% of sitive tests for RF. These diseases include systemic of influenza. Anti-CCP2 is HIGHLY SENSITIVE (71%) & more





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	٨		nopra & Microbiology) nsultant Pathologist		(Pathology)
NAME	: Mr. RAMESH				
AGE/ GENDER	: 47 YRS/MALE			PATIENT ID	: 1800209
COLLECTED BY	:			REG. NO./LAB NO.	: 012503210021
REFERRED BY	: DR. KARAN S	OBTI		REGISTRATION DATE	: 21/Mar/2025 09:14 AM
BARCODE NO.	:01527486			COLLECTION DATE	: 21/Mar/2025 10:27AM
CLIENT CODE.	: KOS DIAGNOS	STIC LAB		REPORTING DATE	: 21/Mar/2025 12:12PM
CLIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD,	AMBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
		WI	DAL SLIDE AG	GLUTINATION TEST	
SALMONELLA TYP			NIL	TITRE	1:80
SALMONELLA TYP by SLIDE AGGLUTINA			NIL	TITRE	1:160
SALMONELLA PAR			NIL	TITRE	1:160
SALMONELLA PAR	ATYPHI BH		NIL	TITRE	1:160

by SLIDE AGGLUTINATION INTERPRETATION:

1. Titres of 1:80 or more for "O" agglutinin is considered significant.

2. Titres of 1:160 or more for "H" agglutinin is considered significant.

LIMITATIONS:

1.Agglutinins usually appear by 5th to 6th day of illness of enteric fever, hence a negative result in early stage is inconclusive. The titre then rises till 3rd or 4th week, after which it declines gradually.

2.Lower titres may be found in normal individuals.

3.A single positive result has less significance than the rising agglutination titre, since demonstration of rising titre four or more in 1st and 3rd week is considered as a definite evidence of infection.

4.A simultaneous rise in H agglutinins is suggestive of paratyphoid infection.

NOTE:

1. Individuals with prior infection or immunization with TAB vaccine may develop an ANAMNESTIC RESPONSE (False-Positive) during an unrelated fever *i.e* High titres of antibodies to various antigens. This may be differentiated by repitition of the test after a week.

2. The anamnestic response shows only a transient rise, while in enteric fever rise is sustained.

3.H agglutinins tend to persist for many months after vaccination but O agglutinins tend to disappear sooner i.e within 6 months. Therefore rise in Oagglutinins indicate recent infection.

*** End Of Report ***





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