



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant			(Pathology)
NAME	: Mrs. MANJEET KAUR			
AGE/ GENDER	: 71 YRS/FEMALE		PATIENT ID	: 1809555
COLLECTED BY	:		REG. NO./LAB NO.	: 042503280002
REFERRED BY	:		REGISTRATION DATE	: 28/Mar/2025 11:31 AM
BARCODE NO.	: A1260740		COLLECTION DATE	: 28/Mar/2025 03:27PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 28/Mar/2025 04:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWASTHY	A WEI	LINESS PANEL: 1	5.0
	COMPL	ETE BL	OOD COUNT (CBC)	
RED BLOOD CELL	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HE	3)	13.8	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL ((RBC) COUNT	4.72	Millions	/cmm 3.50 - 5.00
	DCUSING, ELECTRICAL IMPEDENCE	4.72		
PACKED CELL VOL	UME (PCV) JTOMATED HEMATOLOGY ANALYZER	43.1	%	37.0 - 50.0
MEAN CORPUSCUL	AR VOLUME (MCV)	91.2	fL	80.0 - 100.0
	JTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	29.1	pg	27.0 - 34.0
by CALCULATED BY AL	JTOMATED HEMATOLOGY ANALYZER			
	AR HEMOGLOBIN CONC. (MCHC	⁽⁾ 31.9 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	14.8	%	11.00 - 16.00
-	JTOMATED HEMATOLOGY ANALYZER SUTION WIDTH (RDW-SD)	50.6	fL	35.0 - 56.0
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER			
MENTZERS INDEX		19.32	RATIO	BETA THALASSEMIA TRAI 13.0
.,				IS.0 IRON DEFICIENCY ANEMIA
				>13.0
GREEN & KING INI by CALCULATED	DEX	89.2	RATIO	BETA THALASSEMIA TRAF <= 65.0
				IRON DEFICIENCY ANEMIA
				65.0
		7720	/cmm	4000 - 11000
FOTAL LEUCOCYT	E COUNT (TLC) BY SF CUBE & MICROSCOPY			
NUCLEATED RED E		NIL		0.00 - 20.00





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

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 care@koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay C MD (Patholog) Chairman & C			Dr. Yugam MD (CEO & Consultant	(Pathology)
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•	AUTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL L	<u>EUCOCYTE COUNT (DLC)</u>			
NEUTROPHILS		61	%	50 - 70
•	Y BY SF CUBE & MICROSCOPY	20		20 10
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	30	%	20 - 40
EOSINOPHILS		4	%	1 - 6
	Y BY SF CUBE & MICROSCOPY		, .	1 0
MONOCYTES		5	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	0	0/	
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	OCYTES (WBC) COUNT			
ABSOLUTE NEUTI		4709	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	4709	/clillin	2000 - 7500
ABSOLUTE LYMPI	HOCYTE COUNT	2316	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSIN		309	/cmm	40 - 440
ABSOLUTE MONC	Y BY SF CUBE & MICROSCOPY	386	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY	380	/ciiiii	80 - 880
ABSOLUTE BASOF		0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY			
PLATELETS AND	OTHER PLATELET PREDICTIV	<u>/E MARKERS.</u>		
PLATELET COUN		149000 ^L	/cmm	150000 - 450000
,	FOCUSING, ELECTRICAL IMPEDENCE	0.01	0/	0.10 0.26
PLATELETCRIT (F	PCT) FOCUSING, ELECTRICAL IMPEDENCE	0.21	%	0.10 - 0.36
MEAN PLATELET		15 ^H	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE	15		
	E CELL COUNT (P-LCC)	81000	/cmm	30000 - 90000
-	FOCUSING, ELECTRICAL IMPEDENCE			11.0 45.0
	E CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	58.5 ^H	%	11.0 - 45.0
	IBUTION WIDTH (PDW)	16.5	%	15.0 - 17.0
			10	1010 1710



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Test Name	Value	Unit	Biological Reference interval

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

RECHECKED



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CLIENT CODE. CLIENT ADDRESS Test Name			ORTING DATE	: 28/Mar/2025 04:51PM Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT Value	Unit Y/BIOCHEMIS	Biological Reference interval

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dr 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.
 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	
		LIPID PRO	OFILE : BASIC		
CHOLESTEROL TO by CHOLESTEROL OX		231.47 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0	
				HIGH CHOLESTEROL: > OR = 240.0	
TRIGLYCERIDES: 5	SERUM	143.83	mg/dL	0PTIMAL: < 150.0	
	HATE OXIDASE (ENZYMATIC)	115.05	ingit	BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0	
				VERY HIGH: $> OR = 500.0$	
	DL (DIRECT): SERUM	66.19	mg/dL	LOW HDL: < 30.0	
by SELECTIVE INHIBIT	ION			BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0	
LDL CHOLESTERO	L: SERUM	136.51 ^H	mg/dL	OPTIMAL: < 100.0	
by CALCULATED, SPE	CTROPHOTOMETRY	130.31		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		165.28 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0	
		22.77		VERY HIGH: $>$ OR $=$ 220.0	
VLDL CHOLESTER by CALCULATED, SPE		28.77	mg/dL	0.00 - 45.00	
TOTAL LIPIDS: SE		606.77	mg/dL	350.00 - 700.00	
by CALCULATED, SPE		25			
CHOLESTEROL/HD by CALCULATED, SPE		3.5	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0	

DR.YUGAM CHOPRA

KOS Diagnostic Lab (A Unit of KOS Healthcare)

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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DR.VINAY CHOPRA

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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		2.06	RATIO	MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/I by CALCULATED, SPE	HDL RATIO: SERUM	2.17 ^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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[8-		
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Test Name		Value	Unit	Biological Reference interval
	LIVER F	UNCTIO	N TEST (COMPLETE)
BILIRUBIN TOTAL	.: SERUM	0.47	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, SI	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM SPECTROPHOTOMETRY	0.14	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.33	mg/dL	0.10 - 1.00
SGOT/AST: SERUN	M (RIDOXAL PHOSPHATE	18.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM		11.5	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.63	RATIO	0.00 - 46.00
ALKALINE PHOSP		112.14	U/L	40.0 - 130.0
	IYL TRANSFERASE (GGT): SERUN phtometry	1 21.17	U/L	0.00 - 55.0
TOTAL PROTEINS		7.05	gm/dL	6.20 - 8.00
ALBUMIN: SERUM	E Contraction of the second	4.07	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	M	2.98	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.37	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





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HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly In	creased)

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

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Test Name		Value	Unit	Biological Reference interva
	KIDNEY	FUNCTI	ON TEST (COMPLET)	E)
UREA: SERUM		23.7	mg/dL	10.00 - 50.00
-	IATE DEHYDROGENASE (GLDH)			
CREATININE: SER by ENZYMATIC, SPEC	-	0.92	mg/dL	0.40 - 1.20
•	ROGEN (BUN): SERUM	11.07	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	12.03	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE UREA/CREATININ		25.76	RATIO	
by CALCULATED, SPE		23.70	KAHO	
URIC ACID: SERUN		6.08	mg/dL	2.50 - 6.80
by URICASE - OXIDAS CALCIUM: SERUM		9.95	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		9.95	ing/uL	8.30 - 10.00
PHOSPHOROUS: SI		3.32	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
		141	17	125.0 150.0
SODIUM: SERUM by ISE (ION SELECTIV	ELECTRODE)	141	mmol/L	135.0 - 150.0
POTASSIUM: SERU	JM	4.27	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	,	105 75	ини о ¹ /Т	00.0 110.0
CHLORIDE: SERUN by ISE (ION SELECTIV		105.75	mmol/L	90.0 - 110.0
ESTIMATED GLO	MERULAR FILTERATION RATE	<u>E</u>		
ESTIMATED GLON (eGFR): SERUM by CALCULATED INTERPRETATION:	MERULAR FILTERATION RATE	66.6		

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.



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1, NICHOLSON ROAD, AN	MBALA CANTT		
		Unit	Biological Reference interval
ed tissue breakdown.	Value	Unit	Biological Reference interval
ed tissue breakdown.			
s (urea is virtually absent piate antidiuretic harmor	re than creatinine) (es out of extracellula t in blood). ne) due to tubular se :	ar fluid). cretion of urea.	
e S O	er thán creatinine diffus (urea is virtually absen biate antidiuretic harmo INCREASED CREATININE	er than creatinine diffuses out of extracellula (urea is virtually absent in blood). biate antidiuretic harmone) due to tubular se INCREASED CREATININE: rates conversion of creatine to creatinine). uscle creatinine). op renal failure.	er than creatinine diffuses out of extracellular fluid). (urea is virtually absent in blood). biate antidiuretic harmone) due to tubular secretion of urea. INCREASED CREATININE: rates conversion of creatine to creatinine). uscle creatinine).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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









	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F		(Pathology)
NAME	: Mrs. MANJEET KAUR		
AGE/ GENDER	: 71 YRS/FEMALE	PATIENT ID	: 1809555
COLLECTED BY	:	REG. NO./LAB NO.	: 042503280002
REFERRED BY	:	REGISTRATION DATE	: 28/Mar/2025 11:31 AM
BARCODE NO.	: A1260739	COLLECTION DATE	: 28/Mar/2025 03:26PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPORTING DATE	: 28/Mar/2025 05:18PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	v	alue 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 FR category reported as per KDIGO guideline 2012

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

End Of Report ***





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