

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microt Chairman & Consultant		Dr. Yugam MD (F CEO & Consultant P	Pathology)
NAME	: Mrs. RITU JINDAL			
AGE/ GENDER	: 42 YRS/FEMALE	PA	TIENT ID	: 1823779
COLLECTED BY	:	RE	G. NO./LAB NO.	: 012504090031
REFERRED BY	:	RE	GISTRATION DATE	: 09/Apr/2025 10:14 AM
BARCODE NO.	: 01528663	CO	LLECTION DATE	:09/Apr/2025 10:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	:09/Apr/2025 10:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT		
Test Name	N N	alue	Unit	Biological Reference interval
	SWASTHY	A WELL	NESS PANEL: 15.	0
	COMPLI	ETE BLOC	DD COUNT (CBC)	
RED BLOOD CELI	LS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H by CALORIMETRIC	B)	10.6 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL	(RBC) COUNT	3.32 ^L	Millions/c	mm 3.50 - 5.00
PACKED CELL VOI	LUME (PCV) UTOMATED HEMATOLOGY ANALYZER	33.8 ^L	%	37.0 - 50.0
MEAN CORPUSCUI	LAR VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	101.6 ^H	fL	80.0 - 100.0
	LAR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	32	pg	27.0 - 34.0
MEAN CORPUSCU	LAR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.5 ^L	g/dL	32.0 - 36.0
	BUTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.5	%	11.00 - 16.00
	BUTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	58.3 ^H	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		30.6	RATIO	BETA THALASSEMIA TRAIT: 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IN by CALCULATED	DEX	150.94	RATIO	BETA THALASSEMIA TRAIT: <= 65.0 IRON DEFICIENCY ANEMIA: 2 65.0
WHITE BLOOD C	ELLS (WBCS)			
FOTAL LEUCOCY	TE COUNT (TLC) ′ by sf cube & microscopy	8170	/cmm	4000 - 11000
	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
NUCLEATED RED by AUTOMATED 6 PAF	RT HEMATOLOGY ANALYZER			





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Page 1 of 11





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•	UTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL LI	<u>EUCOCYTE COUNT (DLC)</u>			
NEUTROPHILS by FLOW CYTOMETRY	/ BY SF CUBE & MICROSCOPY	69	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	19 ^L	%	20 - 40
EOSINOPHILS		5	%	1 - 6
by FLOW CYTOMETRY MONOCYTES	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
by FLOW CYTOMETRY BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	0	70	0 - 1
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUTR	COPHIL COUNT (by sf cube & microscopy	5637	/cmm	2000 - 7500
ABSOLUTE LYMPH	IOCYTE COUNT	1552	/cmm	800 - 4900
ABSOLUTE EOSIN		408	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	570		00 000
ABSOLUTE MONO	CYTECOUNT / BY SF CUBE & MICROSCOPY	572	/cmm	80 - 880
ABSOLUTE BASOP	HIL COUNT	0	/cmm	0 - 110
-	7 BY SF CUBE & MICROSCOPY O THER PLATELET PREDICTIV	F MARKERS		
				150000 450000
PLATELET COUNT	OCUSING, ELECTRICAL IMPEDENCE	184000	/cmm	150000 - 450000
PLATELETCRIT (P	CT)	0.23	%	0.10 - 0.36
by HYDRO DYNAMIC F MEAN PLATELET	OCUSING, ELECTRICAL IMPEDENCE		fL	6.50 - 12.0
	OLUME (MP V)	12 ^H	IL	0.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC)	79000	/cmm	30000 - 90000
-	OCUSING, ELECTRICAL IMPEDENCE			
	CELL RATIO (P-LCR)	43.1	%	11.0 - 45.0
	BUTION WIDTH (PDW)	16.5	%	15.0 - 17.0





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Test Name		Value Unit	Biological Reference interval

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





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		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. RITU JINDAL : 42 YRS/FEMALE : : : 01528663 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	REG. REGI COLI REP(IENT ID NO./LAB NO. ISTRATION DATE LECTION DATE ORTING DATE	: 1823779 : 012504090031 : 09/Apr/2025 10:14 AM : 09/Apr/2025 10:14AM : 09/Apr/2025 12:50PM
Test Name		Value	Unit	Biological Reference interval
1. A fasting plasma g 2. A fasting plasma g test (after consumpt 3. A fasting plasma g	TH AMERICAN DIABETES ASSOC lucose level below 100 mg/dl lucose level between 100 - 12 ion of 75 gms of glucose) is red lucose level of above 125 mg/ ing plasma glucose level in exc	is considered normal. 5 mg/dl is considered as (commended for all such p (dl is highly suggestive of (atients. diabetic state. A repea	DIABETIC: > 0R = 126.0 prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for al atory for diabetic state.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		165.79	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: by GLYCEROL PHOS	SERUM PHATE OXIDASE (ENZYMATIC)	165.3 ^H	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTER by SELECTIVE INHIBI	OL (DIRECT): SERUM tion	67.65	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTER(by CALCULATED, SP	DL: SERUM ECTROPHOTOMETRY	65.08	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
NON HDL CHOLE: by calculated, spi	STEROL: SERUM ECTROPHOTOMETRY	98.14	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
VLDL CHOLESTEI		33.06	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
TOTAL LIPIDS: SH		496.88	mg/dL	350.00 - 700.00
CHOLESTEROL/H	ECTROPHOTOMETRY DL RATIO: SERUM ECTROPHOTOMETRY	2.45	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0

77

2.54

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Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		0.96	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	HDL RATIO: SERUM	2.44 ^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.

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

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





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CLIENI ADDRESS	: 6349/1, NICHOLSON ROAD, AME	ALA CANT	1	
Test Name		Value	Unit	Biological Reference interv
	і мер і		N TEST (COMDI ETE)
			ON TEST (COMPLETE	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.51	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
•	T (CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
	SPECTROPHOTOMETRY	0.12	ilig/uL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.39	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	1 RIDOXAL PHOSPHATE	24.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM		18.1	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.35	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	68.35	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUN PHTOMETRY	M 19.44	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO	: SERUM	7.23	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		3.97	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	Л	3.26	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	JM	1.22	RATIO	1.00 - 2.00

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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INTERPRETATION





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	>1	.3 (Slightly Increa	sed)

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).

DDOCNOSTIC	SIGNIFICANCE:
FROGNOSTIC	JIGINII ICANCL.

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 interv
	KIDNEY	FUNCTIO	N TEST (COMPLETH	E)
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	86.62 ^H	mg/dL	10.00 - 50.00
CREATININE: SER by ENZYMATIC, SPEC	UM	4.2 ^H	mg/dL	0.40 - 1.20
BLOOD UREA NIT	ROGEN (BUN): SERUM ECTROPHOTOMETRY	40.48 ^H	mg/dL	7.0 - 25.0
BLOOD UREA NIT RATIO: SERUM by CALCULATED, SPE	ROGEN (BUN)/CREATININE	9.64 ^L	RATIO	10.0 - 20.0
UREA/CREATININ by CALCULATED, SPE		20.62	RATIO	
URIC ACID: SERUM		3.86	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPE		8.47 ^L	mg/dL	8.50 - 10.60
PHOSPHOROUS: S	ERUM DATE, SPECTROPHOTOMETRY	5.36 ^H	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	142.3	mmol/L	135.0 - 150.0
POTASSIUM: SERU		6.06 ^H	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		106.73	mmol/L	90.0 - 110.0
ESTIMATED GLO	MERULAR FILTERATION RATI	<u> </u>		
ESTIMATED GLON (eGFR): SERUM by CALCULATED	MERULAR FILTERATION RATE	12.9		
NOTE 2		RESULT F	RECHECKED TWICE	
ADVICE		KINDLY	CORRELATE CLINICA	LLY
INTERPRETATION:	een pre- and post renal azotemia.			



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Page 9 of 11





KOS Diagnostic Lab IS 0 9001 : 2008 CERTIFIED LAB (A Unit of KOS Healthcare)							
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 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 	(e.g. ureto ass (subno tetracyclin 0:1) WITH (BUN rise superimpo (0:1) WITH osis. d starvati e. creased ui urea rathe monemias of inapprop (0:1) WITH py (accele eleases m who deve : sis (acetoa creased B	er colostomy) ormal creatinine producti ne, glucocorticoids) ELEVATED CREATININE LE es disproportionately mor osed on renal disease. I DECREASED BUN : on. rea synthesis. er than creatinine diffuse s (urea is virtually absent plate antidiuretic harmon I INCREASED CREATININE: erates conversion of creat uscle creatinine). lop renal failure. acetate causes false incre UN/creatinine ratio).	EVELS: re than creatinin es out of extract in blood). ne) due to tubul tine to creatinin ease in creatinin	ellular fluid). ar secretion of urea. e).		ng in normal ra	tio when dehydration
ESTIMATED GLOMERL		feres with creatinine mea	asurement).				
CKD STAGE	JLAR FILTE	RATION RATE:		l/min/1 73m2)		NDINGS	
CKD STAGE G1	JLAR FILTE	RATION RATE: DESCRIPTION Normal kidney function	GFR (m	L/min/1.73m2)	ASSOCIATED FII		

Normal kidney function	>90	No proteinuria
Kidney damage with	>90	Presence of Protein,
normal or high GFR		Albumin or cast in urine
Mild decrease in GFR	60 -89	
Moderate decrease in GFR	30-59	
Severe decrease in GFR	15-29	
	Kidney damage with normal or high GFR Mild decrease in GFR Moderate decrease in GFR	Kidney damage with normal or high GFR >90 Mild decrease in GFR 60 -89 Moderate decrease in GFR 30-59





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REFERRED BY	:	REGISTRA	TION DATE	: 09/Apr/2025 10:14 AM
BARCODE NO.	: 01528663	COLLECTI	ON DATE	:09/Apr/2025 10:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTIN	IG DATE	: 09/Apr/2025 01:43PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
G5	Kidney failure	<15		

0.0	N/N	/FN	٠ZT	

1. Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a

Estimated Glomerular filtration rate (GGFR) is the sum of filtration rates in all functioning hephrons 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 eGFR with Cystatin C for confirmation of CKD
 eGFR category G1 OR G2 does not fullfill the criteria for CKD, in the absence of evidence of Kidney Damage
 In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
 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
 A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (ag severe dehydration)

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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