



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)		(Pathology)	
NAME : Mr	s. ALKA SOOD				
AGE/ GENDER : 67	YRS/FEMALE		PATIENT ID	: 1657090	
COLLECTED BY : SUF	RJESH		REG. NO./LAB NO.	: 01241030001	2
REFERRED BY : CEI	NTRAL PHOENIX CLUB (AMBAI	LA CANTT)	REGISTRATION DATE	: 30/Oct/2024 09	:44 AM
	519796		COLLECTION DATE	: 30/Oct/2024 09	:52AM
	S DIAGNOSTIC LAB		REPORTING DATE	: 30/Oct/2024 11	:00AM
CLIENT ADDRESS : 634	49/1, NICHOLSON ROAD, AMBA	ALA CANT'I			
Test Name		Value	Unit	Biologi	cal Reference interval
	СОМР		ELLNESS PANEL: G OOD COUNT (CBC)		
	<u>CS) COUNT AND INDICES</u>	13	am /dI	12.0 - 1	6.0
HAEMOGLOBIN (HB) by CALORIMETRIC		15	gm/dL	12.0 - 1	0.0
RED BLOOD CELL (RBC)	COUNT NG, ELECTRICAL IMPEDENCE	5.2 ^H	Millions/	cmm 3.50 - 5	5.00
PACKED CELL VOLUME (40.9	%	37.0 - 5	50.0
MEAN CORPUSCULAR VO	LUME (MCV) ATED HEMATOLOGY ANALYZER	78.7 ^L	fL	80.0 - 1	.00.0
MEAN CORPUSCULAR HA		25 ^L	pg	27.0 - 3	34.0
	EMOGLOBIN CONC. (MCHC)	31.8 ^L	g/dL	32.0 - 3	6.0
RED CELL DISTRIBUTION by CALCULATED BY AUTOMA	N WIDTH (RDW-CV) ATED HEMATOLOGY ANALYZER	15.4	%	11.00 -	16.00
RED CELL DISTRIBUTION		45.1	fL	35.0 - 5	6.0
MENTZERS INDEX by CALCULATED		15.13	RATIO	13.0	'HALASSEMIA TRAIT: < EFICIENCY ANEMIA:
GREEN & KING INDEX		23.31	RATIO	65.0	'HALASSEMIA TRAIT:<= EFICIENCY ANEMIA: >
WHITE BLOOD CELLS (7500		4000	11000
TOTAL LEUCOCYTE COUL by FLOW CYTOMETRY BY SF		7580	/cmm	4000 -	11000
NUCLEATED RED BLOOD by AUTOMATED 6 PART HEM		NIL		0.00 - 2	20.00
•	CELLS (nRBCS) %	NIL	%	< 10 %	





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cho j MD (Pathology & M Chairman & Consul	licrobiology)		(Pathology)
NAME	: Mrs. ALKA SOOD			
AGE/ GENDER	: 67 YRS/FEMALE		PATIENT ID	: 1657090
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012410300012
REFERRED BY	: CENTRAL PHOENIX CLUB (AMI	BALA CANTT)	REGISTRATION DATE	: 30/Oct/2024 09:44 AM
BARCODE NO.	:01519796		COLLECTION DATE	: 30/Oct/2024 09:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 30/Oct/2024 11:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
<u>DIFFERENTIAL LE</u>	UCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	47 ^L	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	28	%	20 - 40
EOSINOPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	19 ^H	%	1 - 6
MONOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
IMMATURE GRANU	JLOCTE (IG) % Y by sf cube & microscopy	0	%	0 - 5.0
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
ABSOLUTE NEUTR by FLOW CYTOMETR	OPHIL COUNT y by sf cube & microscopy	3563	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETR	OCYTE COUNT y by sf cube & microscopy	2122	/cmm	800 - 4900
ABSOLUTE EOSINC	OPHIL COUNT y by sf cube & microscopy	1440 ^H	/cmm	40 - 440
ABSOLUTE MONOC by FLOW CYTOMETR	CYTE COUNT y by sf cube & microscopy	455	/cmm	80 - 880
ABSOLUTE BASOP	HIL COUNT y by sf cube & microscopy	0	/cmm	0 - 110
	URE GRANULOCYTE COUNT y by sf cube & microscopy	0	/cmm	0.0 - 999.0
<u>PLATELETS AND (</u>	OTHER PLATELET PREDICTIVE	E MARKERS.		
PLATELET COUNT by hydro dynamic f	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	235000	/cmm	150000 - 450000
PLATELETCRIT (PC by hydro dynamic f	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.33	%	0.10 - 0.36
MEAN PLATELET V by hydro dynamic f	OLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	14 ^H	fL	6.50 - 12.0
	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	128000 ^H	I /cmm	30000 - 90000
PLATELET LARGE	CELL RATIO (P-LCR)	54.7 ^H	%	11.0 - 45.0

PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence



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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. ALKA SOOD		
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Test Name	Value	Unit	Biological Reference interval
PLATELET DISTRU	SUTION WIDTH (PDW) 16	%	150-170

PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.

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Test Name Value Unit Biological Reference in GLYCOSYLATED HAEMOGLOBIN (HBA1C) GLYCOSYLATED HAEMOGLOBIN (HbA1c): 9.4 ^H % 4.0 - 6.4 WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) g23.08 ^H mg/dL 60.00 - 140.00 ESTIMATED AVERAGE PLASMA GLUCOSE 223.08 ^H mg/dL 60.00 - 140.00 by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE 223.08 ^H mg/dL 60.00 - 140.00 INTERPRETATION: INTERPRETATION: Social Social Tion (ADA): COST - 6.4 Diagnosing Diabetes -> 6.5 Age > 19 Years Goals of Therapy: < 7.0 Actions Suggested:		Dr. Vinay Ch MD (Pathology & Chairman & Cor			(Pathology)
COLLECTED BY : SURJESH REG. NO./LAB NO. : 012410300012 REFERRED BY : CENTRAL PHOENIX CLUB (AMBALA CANTT) REGISTRATION DATE : 30/Oct/2024 09:44 AM BARCODE NO. : 01519796 COLLECTION DATE : 30/Oct/2024 09:52AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 30/Oct/2024 09:52AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 30/Oct/2024 03:47PM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT : : Test Name Value Unit Biological Reference in CLYCOSYLATED HAEMOGLOBIN (HBA1C) GLYCOSYLATED HAEMOGLOBIN (HBA1C): by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) g.4 ^H % 4.0 - 6.4 by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) mg/dL 60.00 - 140.00 by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) imterpretation: INTERPRETATION: INTERPRETATION: INTERPRETATION: INTERPRETATION: INTERPRE AMERICAN DIABETE	NAME	: Mrs. ALKA SOOD			
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BARCODE NO. :: 01519796 COLLECTION DATE :: 30/Oct/2024 09:52AM CLIENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE :: 30/Oct/2024 09:52AM CLIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference in CLYCOSYLATED HAEMOGLOBIN (HBA1C) CLYCOSYLATED HAEMOGLOBIN (HBA1C) CLYCOSYLATED HAEMOGLOBIN (HBA1C) CLYCOSYLATED HAEMOGLOBIN (HBA1C) CLYCOSYLATED HAEMOGLOBIN (HBA1C) SUCOSYLATED HAEMOGLOBIN (HBA1C) CLYCOSYLATED HAEMOGLOBIN (HBA1C) CLYCOSYLATED HAEMOGLOBIN (HBA1C) STIMATED AVERAGE PLASMA GLUCOSE 223.08 ^H mg/dL 60.00 - 140.00 by hPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) NTERPRETATION:	COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012410300012
CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 30/Oct/2024 03:47PM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT	REFERRED BY	: CENTRAL PHOENIX CLUB (A	MBALA CANTT)	REGISTRATION DATE	: 30/Oct/2024 09:44 AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference in CLUCOSYLATED HAEMOGLOBIN (HBA1c): 9.4 H % 4.0 - 6.4 NHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) 223.08 ^H mg/dL 60.00 - 140.00 Non clabetic Adults >= 18 years <5.7 Non clabetic Adults >= 18 years <5.7 At Risk (Prediabetes) 5.7 - 6.4 Diagnosing Diabetes >= 6.5	BARCODE NO.	:01519796	,	COLLECTION DATE	: 30/Oct/2024 09:52AM
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GLYCOSYLATED HAEMOGLOBIN (HBA1C) GLYCOSYLATED HAEMOGLOBIN (HBA1C): g.4 ^H % 4.0 - 6.4 WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE 223.08 ^H mg/dL 60.00 - 140.00 by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION: NITERPRETATION: Structure MEREICAN DIABETES ASSOCIATION (ADA): REFERENCE GROUP GLYCOSYLATED HEMOGLOGIB (HBAIC) in % Non diabetic Adults >= 18 years S.7 - 6.4 Diagnosing Diabetes Age > 19 Years Goals of Therapy: <7.0	CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
GLYCOSYLATED HAEMOGLOBIN (HbA1c): 9.4 ^H % 4.0 - 6.4 WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) 80.00 - 140.00 ESTIMATED AVERAGE PLASMA GLUCOSE 223.08 ^H mg/dL 60.00 - 140.00 by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) 80.00 - 140.00 140.00 INTERPRETATION: INTERPRETATION: </td <td>Test Name</td> <td></td> <td>Value</td> <td>Unit</td> <td>Biological Reference interval</td>	Test Name		Value	Unit	Biological Reference interval
WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE 223.08 ^H mg/dL 60.00 - 140.00 by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) mg/dL 60.00 - 140.00 INTERPRETATION: AS PER AMERICAN DIABETES ASSOCIATION (ADA): REFERENCE GROUP GLYCOSYLATED HEMOGLOGIB (HBAIC) in % Non diabetic Adults >= 18 years <5.7		GLY	COSYLATED H	AEMOGLOBIN (HBA1C)	
ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) 223.08 ^H mg/dL 60.00 - 140.00 INTERPRETATION: INTERPRETATION: AS PER AMERICAN DIABETES ASSOCIATION (ADA): Colspan="2">Colspan="2"Co	WHOLE BLOOD		9.4 ^H	%	4.0 - 6.4
AS PER AMERICAN DIABETES ASSOCIATION (ADA): REFERENCE GROUP GLYCOSYLATED HEMOGLOGIB (HBAIC) in % Non diabetic Adults >= 18 years <5.7	ESTIMATED AVERAG	E PLASMA GLUCOSE	223.08 ^H	mg/dL	60.00 - 140.00
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Non diabetic Adults >= 18 years <5.7	RF				n %
At Risk (Prediabetes) 5.7 – 6.4 Diagnosing Diabetes >= 6.5 Age > 19 Years Goals of Therapy: < 7.0					
Diagnosing Diabetes >= 6.5 Age > 19 Years Goals of Therapy: < 7.0 Actions Suggested: >8.0					
Age > 19 Years Goals of Therapy: < 7.0					
Therapeutic goals for glycemic control Actions Suggested: >8.0				Age > 19 Years	
i olo			Goals of The	erapy: < 7.0)
A 40 V	Therapeutic	goals for glycemic control	Actions Sugg		
Age < 19 Years Goal of therapy: <7.5				Age < 19 Years	

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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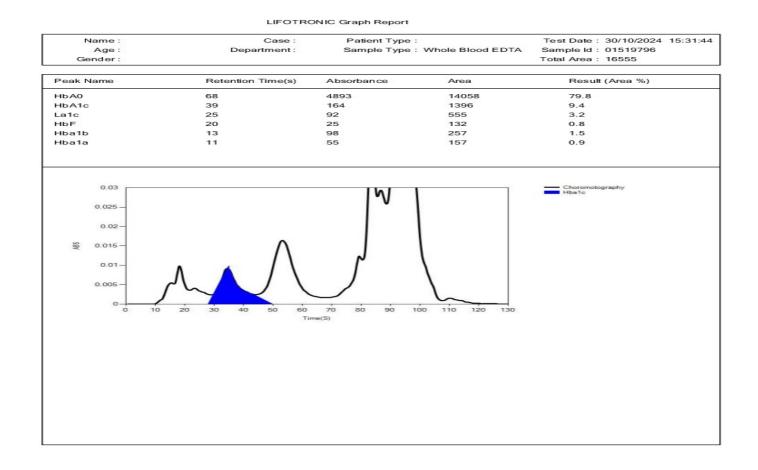


TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 30/Oct/2024 03:47PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval







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		/ Chopra ogy & Microbiology) & Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
AME	: Mrs. ALKA SOOD			
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ARCODE NO.	: 01519796	CO	LLECTION DATE	: 30/Oct/2024 09:52AM
IENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 30/Oct/2024 10:43AM
LIENT ADDRESS	: 6349/1, NICHOLSON RO	DAD, AMBALA CANTT		
est Name		Value	Unit	Biological Reference interval
stemic lupus erytho DNDITION WITH LOV low ESR can be see olycythaemia), sigr sickle cells in sickl DTE: ESR and C - reactiv Generally, ESR doe CRP is not affected If the ESR is elevat Women tend to ha Drugs such as dext	ematosus N ESR n with conditions that inhib ificantly high white blood of e cell anaemia) also lower e protein (C-RP) are both m s not change as rapidly as of by as many other factors as ed, it is typically a result of ye a higher ESR, and menstr	bit the normal sedimentat cell count (leucocytosis), the ESR. arkers of inflammation. does CRP, either at the sta s is ESR, making it a better two types of proteins, glo ruation and pregnancy car	ion of red blood cells, s and some protein abno rt of inflammation or a marker of inflammation bulins or fibrinogen.	n.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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



Page 6 of 14





		hopra & Microbiology) onsultant Pathologist		(Pathology)
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BARCODE NO.	: 01519796		COLLECTION DATE	: 30/Oct/2024 09:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 30/Oct/2024 05:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	ICAL CHEMIS	TRY/BIOCHEMIST	'RY
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING by glucose oxidas	G (F): PLASMA e - peroxidase (god-pod)	281.85 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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.
 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.



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	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugam (MD (F CEO & Consultant P	Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. ALKA SOOD : 67 YRS/FEMALE : SURJESH : CENTRAL PHOENIX CLUB (4 : 01519796 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD	REG. AMBALA CANTT) REGI COLI REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE DRTING DATE	: 1657090 : 012410300012 : 30/Oct/2024 09:44 AM : 30/Oct/2024 09:52AM : 30/Oct/2024 11:46AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		249.44 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	268.87 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI by SELECTIVE INHIBIT.	L (DIRECT): SERUM	47.89	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		147.78 ^H	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		201.55 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(by CALCULATED, SPE		53.77 ^H	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	UM	767.75 ^H	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	5.21 ^H	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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COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012410300012
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT) REGISTRATION DATE	: 30/Oct/2024 09:44 AM
BARCODE NO.	: 01519796	COLLECTION DATE	: 30/Oct/2024 09:52AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 30/Oct/2024 11:46AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by Calculated, spe	0.00	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 5.61 ^H	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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	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)		(Pathology)
NAME	: Mrs. ALKA SOOD			
AGE/ GENDER	: 67 YRS/FEMALE		PATIENT ID	: 1657090
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012410300012
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Test Name		Value	Unit	Biological Reference interval
	LIVEF	R FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.48	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.37	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	23.87	U/L	7.00 - 45.00
SGPT/ALT: SERUM	((RIDOXAL PHOSPHATE	36.27	U/L	0.00 - 49.00

by IFCC, WITHOUT PYRIDOXAL PHOSPHATE			
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	36.27	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by Calculated, spectrophotometry	0.66	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para Nitrophenyl phosphatase by amino methyl propanol	93.41	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUN by SZASZ, SPECTROPHTOMETRY	M 27.85	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.62	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.48	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.14	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by Calculated, spectrophotometry	1.43	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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Test Name	Value	Unit	Biological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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AGE/ GENDER	: 67 YRS/FEMALE		PATIENT ID	: 1657090	
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BARCODE NO.	: 01519796		COLLECTION DATE	: 30/Oct/2024 09:52AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 30/Oct/2024 12:40PM	
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AND		MBALA CANTT			
Test Name		Value	Unit	Biological Reference interva	
	KIDNE	Y FUNCTIO	N TEST (COMPLETE)		
UREA: SERUM		56.88 ^H	mg/dL	10.00 - 50.00	
by UREASE - GLUTAN CREATININE: SERU	MATE DEHYDROGENASE (GLDH)	1 1 0	mg /dI	0.40 1.20	
by ENZYMATIC, SPEC		1.18	mg/dL	0.40 - 1.20	
	OGEN (BUN): SERUM	26.58 ^H	mg/dL	7.0 - 25.0	
by CALCULATED, SPE BLOOD UREA NITE	CCTROPHOTOMETRY ROGEN (BUN)/CREATININE	22.53 ^H	RATIO	10.0 - 20.0	
RATIO: SERUM	OULN (DON)/ ORLATININE	22.53**	RAIIO	10.0 - 20.0	
by CALCULATED, SPE		10.0	DATTO		
UREA/CREATININ by CALCULATED, SPE		48.2	RATIO		
URIC ACID: SERUM		6.64	mg/dL	2.50 - 6.80	
by URICASE - OXIDAS CALCIUM: SERUM	E PEROXIDASE	10.38	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE	CTROPHOTOMETRY	10.00	ing/ uL	0.00 10.00	
PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY		3.97	mg/dL	2.30 - 4.70	
ELECTROLYTES	ATE, SPECIROPHOTOMETRY				
SODIUM: SERUM		135.5	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIVE ELECTRODE)					
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)		4.16	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM		101.63	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIV					
	IERULAR FILTERATION RATE	50.0			
ESTIMATED GLOM (eGFR): SERUM	ERULAR FILTERATION RATE	50.6			
by CALCULATED					
NOTE 2		RESULT I	RECHECKED TWICE		

NOTE 2

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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NAME	: Mrs. ALK	A SOOD				
AGE/ GENDER	: 67 YRS/FE	MALE	РА	TIENT ID	: 1657090	
COLLECTED BY	: SURJESH			G. NO./LAB NO.	: 0124103000	19
REFERRED BY	: CENTRAL	PHOENIX CLUB (AMBAL	A CANTT) RE	GISTRATION DA	TE : 30/Oct/2024 0	9:44 AM
BARCODE NO.	:01519796		CO	LLECTION DAT	E : 30/Oct/2024 0	9:52AM
CLIENT CODE.	: KOS DIAG	NOSTIC LAB	RF	PORTING DATE	: 30/Oct/2024 1	2:40PM
CLIENT ADDRESS	:6349/1, N	ICHOLSON ROAD, AMBA	LA CANTT			
Test Name			Value	Uni	t Biolog	ical Reference interval
6. Inherited hyperam 7. SIADH (syndrome (8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r	rosis. nd starvation. e. creased urea (urea rather ti monemias (u of inappropiat 10:1) WITH IN apy (accelerate releases musc	synthesis. aan creatinine diffuses o rea is virtually absent in e antidiuretic harmone) o CREASED CREATININE: es conversion of creatine e creatinine).	blood). due to tubular :	·		
3. Muscular patients INAPPROPIATE RATIO		renal failure.				
		ate causes false increase	e in creatinine	with certain met	nodologies,resulting in no	rmal ratio when dehydratio
should produce an in 2. Cephalosporin the	creased BUN/ rapy (interfere	creatinine ratio). As with creatinine measur			<u>.</u>	, ,
ESTIMATED GLOMERI CKD STAGE		DESCRIPTION	GER (ml/	nin/1.73m2)	ASSOCIATED FINDINGS	
			<u> </u>			

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	
Test Name	Value	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

End Of Report ***





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