



Dr. Vinay Chop MD (Pathology & Mid Chairman & Consulta	crobiology)		Pathology)
NAME : Mrs. KIRAN KATYAL			
AGE/ GENDER : 67 YRS/FEMALE		PATIENT ID	: 1628877
<b>COLLECTED BY</b> : SURJESH		<b>REG. NO./LAB NO.</b>	: 012409290019
<b>REFERRED BY</b> : CENTRAL PHOENIX CLUB (AMBA	ALA CANTT)	<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:08 AM
<b>BARCODE NO.</b> : 01517931		COLLECTION DATE	: 29/Sep/2024 09:14AM
CLIENT CODE. : KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Sep/2024 09:38AM
<b>CLIENT ADDRESS</b> : 6349/1, NICHOLSON ROAD, AM	BALA CANT I		
Test Name	Value	Unit	Biological Reference interval
SWA	STHYA W	ELLNESS PANEL: G	
CO	MPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC	11.8 <sup>L</sup>	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	5.07 <sup>H</sup>	Millions/cn	nm 3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	38.3	%	37.0 - 50.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	75.5 <sup>L</sup>	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	23.3 <sup>L</sup>	pg	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	30.9 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	15.5	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	43.7	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	14.89	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	23.11	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			INON DEFICIENCE ANEIVIA. 203.0
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6190	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS	58	%	50 - 70
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

Page 1 of 12





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Test Name		Value	Unit	<b>Biological Reference interval</b>
LYMPHOCYTES		29	%	20 - 40
-	Y BY SF CUBE & MICROSCOPY	,	0/	1 (
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	6	%	1 - 6
MONOCYTES		7	%	2 - 12
	Y BY SF CUBE & MICROSCOPY			
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOCY	<u>TES (WBC) COUNT</u>			
ABSOLUTE NEUTROF	PHIL COUNT	3590	/cmm	2000 - 7500
-	Y BY SF CUBE & MICROSCOPY	1.202		
ABSOLUTE LYMPHO		1795	/cmm	800 - 4900
ABSOLUTE EOSINOP	Y BY SF CUBE & MICROSCOPY	371	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	571	7011111	40 - 440
ABSOLUTE MONOCY		433	/cmm	80 - 880
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPHI		0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY	DC C		
	HER PLATELET PREDICTIVE MARKE			
PLATELET COUNT (PI		145000 <sup>L</sup>	/cmm	150000 - 450000
PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.21	%	0.10 - 0.36
	OCUSING, ELECTRICAL IMPEDENCE	0.21	70	0.10 0.30
MEAN PLATELET VO		14 <sup>H</sup>	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE			
	· · · · · ·	79000	/cmm	30000 - 90000
PLATELET LARGE CEL	OCUSING, ELECTRICAL IMPEDENCE	F4 /H	%	11.0 - 45.0
	FOCUSING, ELECTRICAL IMPEDENCE	54.6 <sup>H</sup>	/0	11.0 - 45.0
PLATELET DISTRIBUT		16.4	%	15.0 - 17.0
	OCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		1
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEI		COSYLATED HAI 6.5 <sup>H</sup>	EMOGLOBIN (HBA1C) %	4.0 - 6.4
GLYCOSYLATED HAEI	MOGLOBIN (HbA1c):	6.5 <sup>H</sup>		4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI	<b>MOGLOBIN (HbA1c):</b> D <b>RMANCE LIQUID CHROMATOGRAPHY)</b> E PLASMA GLUCOSE	6.5 <sup>H</sup>		<b>4.0 - 6.4</b> 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)	6.5 <sup>H</sup>	%	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO	MOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	<b>6.5<sup>H</sup></b> 139.85	% mg/dL	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION:	<b>MOGLOBIN (HbA1c):</b> D <b>RMANCE LIQUID CHROMATOGRAPHY)</b> E PLASMA GLUCOSE	6.5 <sup>H</sup> 139.85 DIABETES ASSOCIA	% mg/dL	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.5 <sup>H</sup> 139.85 DIABETES ASSOCIA	% mg/dL TION (ADA): //COSYLATED HEMOGLOGIB <5.7	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: NOT DIA Non dia	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.5 <sup>H</sup> 139.85 DIABETES ASSOCIA	% mg/dL TION (ADA): <u>COSYLATED HEMOGLOGIB</u> <5.7 5.7 – 6.4	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	6.5 <sup>H</sup> 139.85 DIABETES ASSOCIA	%           mg/dL           TION (ADA):           COSYLATED HEMOGLOGIB           <5.7	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: NOT DIA Non dia	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.5 <sup>H</sup> 139.85 DIABETES ASSOCIA GLY	% mg/dL TION (ADA): <u>COSYLATED HEMOGLOGIB</u> <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	6.5 <sup>H</sup> 139.85 DIABETES ASSOCIA GLY GLY Goals of	%           mg/dL           TION (ADA):           COOSYLATED HEMOGLOGIB           <5.7	60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	6.5 <sup>H</sup> 139.85 DIABETES ASSOCIA GLY GLY Goals of	% mg/dL TION (ADA): <u>COSYLATED HEMOGLOGIB</u> <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00 (HBAIC) in %

## COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTI	HROCYTE SEDIN	VENTATION RATE (ES	R)
	MENTATION RATE (ESR)	34 <sup>H</sup>	mm/1st l	
by RED CELL AGGRE	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET	TRY C.		hr 0 - 20
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET	r <b>RY</b> It often indicates t	he presence of inflammat	hr 0 - 20
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitio cted by other conditions besides	r <b>RY</b> It often indicates t	he presence of inflammat	hr 0 - 20
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitio cted by other conditions besides	It often indicates t oner exactly where s inflammation. Fo	he presence of inflammat the inflammation is in the r this reason, the ESR is ty	hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specifi immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitio cted by other conditions besides be used to monitor disease activ	It often indicates t oner exactly where s inflammation. Fo	he presence of inflammat the inflammation is in the r this reason, the ESR is ty	hr 0 - 20
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMEN ic test because an elevated resu does not tell the health practitio cted by other conditions besides be used to monitor disease active ematosus W ESR	rry Ilt often indicates to oner exactly where s inflammation. Fo vity and response t	he presence of inflammat the inflammation is in the r this reason, the ESR is ty o therapy in both of the a	hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO' A low ESR can be see (polycythaemia), sigr	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitic cted by other conditions besides be used to monitor disease active ematosus W ESR n with conditions that inhibit th hificantly high white blood cell c	It often indicates to oner exactly where s inflammation. Fo vity and response to e normal sedimentiount (leucocytosis	he presence of inflammat the inflammation is in the r this reason, the ESR is ty to therapy in both of the a tation of red blood cells, s	hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such
by RED CELL AGGREE INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO' A low ESR can be see (polycythaemia), sigr	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitic cted by other conditions besides be used to monitor disease active ematosus W ESR n with conditions that inhibit th	It often indicates to oner exactly where s inflammation. Fo vity and response to e normal sedimentiount (leucocytosis	he presence of inflammat the inflammation is in the r this reason, the ESR is ty to therapy in both of the a tation of red blood cells, s	hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitic cted by other conditions besides be used to monitor disease active ematosus W ESR n with conditions that inhibit th hificantly high white blood cell c	rrry It often indicates to oner exactly where is inflammation. Fo vity and response to e normal sedimention ount (leucocytosis ESR. rs of inflammation.	he presence of inflammat the inflammation is in the r this reason, the ESR is ty o therapy in both of the a tation of red blood cells, s ) , and some protein abno	hr 0-20 ion associated with infection, cancer and auto- e body or what is causing it. pically 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 (such

 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while environment and pregnance and environment. aspirin, cortisone, and quinine may decrease it





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN		STRY/BIOCHEMISTR	Y
		GLUCOSI	E FASTING (F)	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PA		116.37	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIL	DASE (ENZYMATIC)	95.49	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): by SELECTIVE INHIBITION	SERUM	51.17	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHO	DTOMETRY	46.1	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROL: SER by CALCULATED, SPECTROPHO		65.2	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHO	TOMETRY	19.1	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHO	DTOMETRY	328.23 <sup>L</sup>	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SE by CALCULATED, SPECTROPHO	ERUM	2.27	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHO	TOMETRY	0.9	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CAN	TT) REGISTRATION DATE	: 29/Sep/2024 09:08 AM
BARCODE NO.	: 01517931	<b>COLLECTION DATE</b>	: 29/Sep/2024 09:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 29/Sep/2024 11:49AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	
Test Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	1.07	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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	MD (Pathology & Microbiology) MD Chairman & Consultant Pathologist CEO & Consultant			n <b>Chopra</b> (Pathology) : Pathologist
NAME	: Mrs. KIRAN KATYAL			
AGE/ GENDER	: 67 YRS/FEMALE		PATIENT ID	: 1628877
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409290019
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AM	MBALA CANTT)	<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:08 AM
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			N TEST (COMPLETE)	
BILIRUBIN TOTAL: SE by DIAZOTIZATION, SP		0.72	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.24	mg/dL	0.00 - 0.40
-	(UNCONJUGATED): SERUM	0.48	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		16.15	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	18.84	U/L	0.00 - 49.00
AST/ALT RATIO: SERI	UM	0.86	RATIO	0.00 - 46.00
ALKALINE PHOSPHAT		106.36 L	U/L	40.0 - 130.0
	TRANSFERASE (GGT): SERUM	15.58	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	RUM	6.49	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.65	gm/dL	3.50 - 5.50

by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 1.29 by CALCULATED, SPECTROPHOTOMETRY

**INTERPRETATION** 

by BROMOCRESOL GREEN GLOBULIN: SERUM

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

2.84





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2.30 - 3.50

1.00 - 2.00

gm/dL

RATIO

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mrs. KIRAN KATYAL				
AGE/ GENDER	: 67 YRS/FEMALE	PAT	FIENT ID	: 1628877	
COLLECTED BY	: SURJESH	REC	G. NO./LAB NO.	: 012409290019	
REFERRED BY	: CENTRAL PHOENIX CLUB (AME	BALA CANTT) <b>REC</b>	GISTRATION DATE	: 29/Sep/2024 09:08 AM	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REI	PORTING DATE	: 29/Sep/2024 11:49AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value	Unit	Biological Reference interv	/al
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Incr	eased)	

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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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist	
NAME	: Mrs. KIRAN KATYAL			
AGE/ GENDER	: 67 YRS/FEMALE		PATIENT ID	: 1628877
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409290019
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB	(AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:08 AM
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 29/Sep/2024 01:45PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		ľ
Test Name		Value	Unit	Biological Reference interval
			ON TEST (COMPLETE)	
UREA: SERUM		32.82	mg/dL	10.00 - 50.00
	MATE DEHYDROGENASE (GLDH)	02.02	nig/ de	10.00 00.00
CREATININE: SERUN		0.82	mg/dL	0.40 - 1.20
· · · · · · · · · · · · · · · · · · ·	by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		ma/dl	7.0 - 25.0
	ECTROPHOTOMETRY	15.34	mg/dL	7.0 - 23.0
BLOOD UREA NITROGEN (BUN)/CREATININE		18.71	RATIO	10.0 - 20.0
RATIO: SERUM				
		40.02	RATIO	
UREA/CREATININE I	ECTROPHOTOMETRY	40.02	RATIO	
URIC ACID: SERUM		5.28	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE			
CALCIUM: SERUM by ARSENAZO III, SPE		8.8	mg/dL	8.50 - 10.60
PHOSPHOROUS: SEF		3.53	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY		ing, iii	
ELECTROLYTES				
SODIUM: SERUM		140.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		4 41	mm of //	2 50 5 00
POTASSIUM: SERUN by ISE (ION SELECTIV		4.41	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	,	105.45	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	-			
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	78.4		
(eGFR): SERUM by calculated				

## 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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Dr. Vinay Chop MD (Pathology & Mid Chairman & Consulta	robiology)		ugam Cho MD (Patho sultant Patho	ology)		
NAME	: Mrs. KIRA	N KATYAL						
AGE/ GENDER	: 67 YRS/FEI	<b>/</b> ALE		PATIENT ID	: 10	628877		
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	• 0	12409290019		
REFERRED BY		MOENIV CLUD (AMD)						
		PHOENIX CLUB (AMBA	ALA CANTT)			9/Sep/2024 09:08		
BARCODE NO.	:01517931			COLLECTION DATE		9/Sep/2024 09:14		
CLIENT CODE.	: KOS DIAGN	OSTIC LAB		REPORTING DATE	: 29	9/Sep/2024 01:45	5PM	
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AMI	BALA CANTI					
Test Name			Value	Unit	t	Biological	Reference interv	/al
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2	xia, high fever (e.g. ureter co ass (subnorma tetracycline, g <b>0:1) WITH ELE</b>	lostomy) I creatinine productic lucocorticoids) <b>/ATED CREATININE LE\</b>	n) <b>/ELS</b> :			ushing's syndrom	ne, high protein di	iet,
burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal azotemia <b>DECREASED RATIO (</b> 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. <b>DECREASED RATIO (&lt;</b> 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients <b>INAPPROPIATE RATIO</b>	ke or producti xia, high fever (e.g. ureter cc ass (subnorma tetracycline, g 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. d starvation. e. creased urea s urea rather th monemias (uru fi inappropiate 0:1) WITH INC py (accelerate eleases muscle who develop r	I. lostomy) l creatinine productic lucocorticoids) <b>/ATED CREATININE LEV</b> proportionately more on renal disease. <b>REASED BUN :</b> ynthesis. an creatinine diffuses ea is virtually absent i antidiuretic harmone <b>REASED CREATININE:</b> s conversion of creatin e creatinine). enal failure.	n) /ELS: than creatin n blood). ) due to tubu ne to creatini	ine) (e.g. obstructive cellular fluid). Ilar secretion of urea. ne).	uropathy).			
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UND STADE	DEJONII HON		ASSOCIATED TINDINGS
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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NAME	: Mrs. KIRAN KATYAL		
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Test Name	Value	Unit	Biological Reference interval

COMMENTS: 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 measure of functioning nephrons of the kidney. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012 3. 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 Creatine CFP.

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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