



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	obiology)	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mrs. LALITA SHARMA			
AGE/ GENDER	: 70 YRS/FEMALE	P	ATIENT ID	: 1817479
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	:012504040013
REFERRED BY	:	R	EGISTRATION DATE	: 04/Apr/2025 09:32 AM
BARCODE NO.	: 01528328		OLLECTION DATE	:04/Apr/2025 10:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 04/Apr/2025 10:41AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT		
Test Name		Value	Unit	Biological Reference interval
			LNESS PANEL: G	
DED BI OOD CEI I	COMPL S (RBCS) COUNT AND INDICES		OD COUNT (CBC)	
HAEMOGLOBIN (HI		7.3 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC				
RED BLOOD CELL	(RBC) COUNT	3.67	Millions/c	mm 3.50 - 5.00
PACKED CELL VOL	UME (PCV)	25 ^L	%	37.0 - 50.0
•	JTOMATED HEMATOLOGY ANALYZER AR VOLUME (MCV)	68 ^L	fL	80.0 - 100.0
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER			
	AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	19.8 ^L	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC	^{C)} 29.1 ^L	g/dL	32.0 - 36.0
-	JTOMATED HEMATOLOGY ANALYZER SUTION WIDTH (RDW-CV)	20.3 ^H	%	11.00 - 16.00
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER			
	BUTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	51.1	fL	35.0 - 56.0
MENTZERS INDEX		18.53	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING INI	DEX	128.59	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				<= 65.0 IRON DEFICIENCY ANEMIA: >
				65.0
WHITE BLOOD CH				
TOTAL LEUCOCYT	E COUNT (TLC) by sf cube & microscopy	16080 ^H	/cmm	4000 - 11000
NUCLEATED RED H	BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PAR	T HEMATOLOGY ANALYZER			
	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	Biological Reference interval
	AUTOMATED HEMATOLOGY ANALYZER JEUCOCYTE COUNT (DLC)			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	82 ^H	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	12 ^L	%	20 - 40
EOSINOPHILS	RY BY SF CUBE & MICROSCOPY	1	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
-	XOCYTES (WBC) COUNT			
ABSOLUTE NEUT	ROPHIL COUNT BY BY SF CUBE & MICROSCOPY	13186 ^H	/cmm	2000 - 7500
ABSOLUTE LYMP		1930	/cmm	800 - 4900
ABSOLUTE EOSIN		161	/cmm	40 - 440
ABSOLUTE MONO		804	/cmm	80 - 880
ABSOLUTE BASO	PHIL COUNT BY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND	OTHER PLATELET PREDICTI	VE MARKERS.		
PLATELET COUN by hydro dynamic	T (PLT) FOCUSING, ELECTRICAL IMPEDENCE	785000 ^H	/cmm	150000 - 450000
PLATELETCRIT (I	PCT) FOCUSING, ELECTRICAL IMPEDENCE	0.74 ^H	%	0.10 - 0.36
MEAN PLATELET		9	fL	6.50 - 12.0
PLATELET LARG	E CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	166000 ^H	/cmm	30000 - 90000
PLATELET LARG	E CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	22.1	%	11.0 - 45.0
	IBUTION WIDTH (PDW)	15.6	%	15.0 - 17.0



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Test Name	N	alue Unit	Biological Reference interval
,	FOCUSING, ELECTRICAL IMPEDENCE		
ADVICE		KINDLY CORRELATE CLINI	CALLY

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			
	. 0343/ 1, MCHOLSON KOAD, AN			
Test Name		Value	Unit	Biological Reference interva
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER	IAEMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	6.8 ^H 148.46 ^H	mg/dL	60.00 - 140.00
INTERPRETATION:				
INTERPRETATION:	AS PER AMERICAN DI	ABETES ASSOCIA	TION (ADA):	
	AS PER AMERICAN DI REFERENCE GROUP		TION (ADA): COSYLATED HEMOGLOGIB	(HBAIC) in %
				(HBAIC) in %
Non di A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)		COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	(HBAIC) in %
Non di A	REFERENCE GROUP abetic Adults >= 18 years		<pre>COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5</pre>	(HBAIC) in %
Non di A	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLY	COSYLATED HEMOGLOGIB <5.7	
Non di A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) viagnosing Diabetes	GLY Goals c	COSYLATED HEMOGLOGIB <5.7	< 7.0
Non di A D	REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	GLY Goals c	COSYLATED HEMOGLOGIB <5.7	

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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 CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Apr/2025 10:52AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	OCYTE SED	IMENTATION RATE	(ESR)
by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specifi immune disease, but 4 2. An ESR can be affect as C-reactive protein 3. This test may also b systemic lupus erythe CONDITION WITH LOW A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR doe: 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dexti	CDIMENTATION RATE (ESR) AATION BY CAPILLARY PHOTOMETRY c test because an elevated result does not tell the health practition ted by other conditions besides i be used to monitor disease activit matosus V ESR n with conditions that inhibit the ificantly high white blood cell cou e cell anaemia) also lower the ES s not change as rapidly as does CI by as many other factors as is ESR ed, it is typically a result of two ty ve a higher ESR, and menstruation	71^H often indicates ner exactly whe nflammation. F and response normal sedime unt (leucocytos R. of inflammatio RP, either at the spes of proteins and pregnanc	mm/1st h s the presence of inflammat re the inflammation is in the for this reason, the ESR is ty e to therapy in both of the a entation of red blood cells, s sis) , and some protein abno on. e start of inflammation or a etter marker of inflammation s, globulins or fibrinogen. y can cause temporary eleva	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 s it resolves.





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LIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD,	AMBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
JLUCOSE FASTIN by GLUCOSE OXIDAS			131.59 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
est (after consumpti 3. A fasting plasma g	lucose level belo lucose level betw ion of 75 gms of g lucose level of ab	w 100 mg/dl is reen 100 - 125 r lucose) is recor ove 125 mg/dl	considered norma mg/dl is considered mmended for all su is highly suggestiv	d as glucose intolerant or uch patients.	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for atory for diabetic state.

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		Chopra / & Microbiology) onsultant Pathologist		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. LALITA SHARMA : 70 YRS/FEMALE : SURJESH : : 01528328 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1817479 : 012504040013 : 04/Apr/2025 09:32 AM : 04/Apr/2025 10:11AM : 04/Apr/2025 11:43AM
Test Name		Value	Unit	Biological Reference interval
		L IPIN PRO	FILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		109.98	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: 5 by GLYCEROL PHOSP	SERUM HATE OXIDASE (ENZYMATIC)	95.26	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERC	DL (DIRECT): SERUM ion	37.81	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		53.12	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		72.17	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		19.05	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI		315.22 ^L	mg/dL	350.00 - 700.00
=	DL RATIO: SERUM	2.91	RATIO	LOW RISK: 3.30 - 4.40

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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		1.4	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	2.52 ^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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Test Name		Value	Unit	Biological Reference interval
	LIVER F		N TEST (COMPLETE	
BILIRUBIN TOTAL		0.36	mg/dL	INFANT: 0.20 - 8.00
-	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM SPECTROPHOTOMETRY	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.24	mg/dL	0.10 - 1.00
SGOT/AST: SERUN		29.35	U/L	7.00 - 45.00
SGPT/ALT: SERUM		18.74	U/L	0.00 - 49.00
AST/ALT RATIO: S	SERUM	1.57	RATIO	0.00 - 46.00
ALKALINE PHOSP		189.94 ^H	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROP	YL TRANSFERASE (GGT): SERUM	¹ 79.08 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO	: SERUM	7.16	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		3.95	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	N	3.21	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	JM	1.23	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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Test Name		Value Unit	Biological Reference	e interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly	(Increased)	

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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COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012504040013
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BARCODE NO.	:01528328		COLLECTION DATE	: 04/Apr/2025 10:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Apr/2025 12:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	KIDNEY	FUNCTIO	ON TEST (COMPLETI	E)
UREA: SERUM		22.44	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)			
CREATININE: SERUM		1.08	mg/dL	0.40 - 1.20
by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		10.49	mg/dL	7.0 - 25.0
by CALCULATED, SPECTROPHOTOMETRY		10.17	nig, di	1.0 2010
BLOOD UREA NITROGEN (BUN)/CREATININE		9.71 ^L	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ		20.78	RATIO	
-	ECTROPHOTOMETRY			
URIC ACID: SERUI		5.23	mg/dL	2.50 - 6.80
by URICASE - OXIDASE PEROXIDASE CALCIUM: SERUM		8.56	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			-	
PHOSPHOROUS: S	ERUM DATE, SPECTROPHOTOMETRY	3.77	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SI ECTIONITOTOMETICI			
SODIUM: SERUM		133.5 ^L	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	ELECTRODE)	155.52		155.0 150.0
POTASSIUM: SERUM		5.25 ^H	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM		100.13	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV		100.15	minol/L	20.0 - 110.0
ESTIMATED GLO	MERULAR FILTERATION RAT	<u>E</u>		
ESTIMATED GLON (eGFR): SERUM by CALCULATED	MERULAR FILTERATION RATE	55.3		
INTERPRETATION:				
To differentiate betw	een pre- and post renal azotemia			

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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	MD	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mrs. LALITA SHA	ARMA				
AGE/ GENDER	: 70 YRS/FEMALE		PATIE	IT ID	: 1817479	
COLLECTED BY	: SURJESH		RFC N	D./LAB NO.	:012504040013	
REFERRED BY	·			RATION DATE		9 AM
					: 04/Apr/2025 09:3	
BARCODE NO.	:01528328			TION DATE	:04/Apr/2025 10:1	
CLIENT CODE.	: KOS DIAGNOSTIO			TING DATE	:04/Apr/2025 12:2	7PM
CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBAL	A CANTT			
Test Name		T I	alue	Unit	Biological	l Reference interval
1. Postrenal azotemia 2. Prerenal azotemia	0:1) WITH ELEVATED (BUN rises dispropo superimposed on re	rtionately more tha nal disease.		obstructive uropa	athy).	
 Postrenal azotemia Prerenal azotemia Prerenal azotemia Prerenal 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 (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in 	0:1) WITH ELEVATED (BUN rises dispropo- superimposed on re 0:1) WITH DECREASE osis. Ind starvation. 2. creased urea synthe urea rather than cre monemias (urea is v of inappropiate antid 0:1) WITH INCREASE py (accelerates conv eleases muscle creat who develop renal fa- sis (acetoacetate cat creased BUN/creatir	CREATININE LEVELS rtionately more than nal disease. D BUN : sis. atinine diffuses out irtually absent in bl iuretic harmone) du D CREATININE: ersion of creatine tr inine). ailure. uses false increase i ine ratio).	an creatinine) (e.g t of extracellular f lood). ue to tubular secre o creatinine). in creatinine with	uid). tion of urea.	athy). ogies,resulting in norma	al ratio when dehydrati
 Postrenal azotemia Prerenal azotemia Prerenal 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 (Phenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido 	0:1) WITH ELEVATED (BUN rises dispropo- superimposed on re 0:1) WITH DECREASE osis. Ind starvation. 2. creased urea synthe urea rather than cre monemias (urea is v of inappropiate antid 0:1) WITH INCREASE py (accelerates conv eleases muscle creat who develop renal fi- sis (acetoacetate can creased BUN/creatir apy (interferes with	CREATININE LEVELS rtionately more than al disease. D BUN : sis. atinine diffuses out irtually absent in bl iuretic harmone) du D CREATININE: ersion of creatine tr inine). ailure. uses false increase i nine ratio). creatinine measure	an creatinine) (e.g t of extracellular f lood). ue to tubular secre o creatinine). in creatinine with	uid). tion of urea.		al ratio when dehydrati
 Postrenal azotemia Prerenal azotemia Prerenal azotemia Prerenal azotemia Prezenal azotemia Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. PCREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERL CKD STAGE 	0:1) WITH ELEVATED (BUN rises dispropo- superimposed on re 0:1) WITH DECREASE osis. Ind starvation. 2. creased urea synthe urea rather than cre monemias (urea is v of inappropiate antid 0:1) WITH INCREASE py (accelerates conv eleases muscle creat who develop renal fi sis (acetoacetate can creased BUN/creatir apy (interferes with ULAR FILTERATION RA	CREATININE LEVELS rtionately more than al disease. D BUN : biss. atinine diffuses out irtually absent in bl iuretic harmone) du D CREATININE: ersion of creatine tr inine). ailure. uses false increase i nine ratio). creatinine measure TE: SCRIPTION	an creatinine) (e.g t of extracellular f lood). ue to tubular secre o creatinine). in creatinine with ment). GFR (mL/min/	uid). tion of urea. certain methodol	ogies,resulting in norma	al ratio when dehydrati
1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 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 of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE	0:1) WITH ELEVATED (BUN rises dispropo- superimposed on re 0:1) WITH DECREASE osis. Id starvation. 2. creased urea synthe urea rather than cre monemias (urea is v of inappropiate antid 0:1) WITH INCREASE py (accelerates conv eleases muscle creating who develop renal fa- creased BUN/creating apy (interferes with ULAR FILTERATION RA DE Normal	CREATININE LEVELS rtionately more than al disease. D BUN : sis. atinine diffuses out irtually absent in bl iuretic harmone) du D CREATININE: ersion of creatine tr inine). ailure. uses false increase i nine ratio). creatinine measure TE: SCRIPTION kidney function	an creatinine) (e.g t of extracellular f lood). ue to tubular secre o creatinine). in creatinine with ment). 	uid). tion of urea. certain methodol 1.73m2) AS	ogies,resulting in norma SOCIATED FINDINGS No proteinuria	al ratio when dehydrati
 Postrenal azotemia Prerenal azotemia Prerenal azotemia Prerenal azotemia Prezenal azotemia Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. PCREASED RATIO (Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther ESTIMATED GLOMERL CKD STAGE 	0:1) WITH ELEVATED (BUN rises dispropo- superimposed on re 0:1) WITH DECREASE osis. Ind starvation. 2. creased urea synthe urea rather than crean monemias (urea is vor of inappropiate antid 0:1) WITH INCREASE py (accelerates convolute eleases muscle creation who develop renal fa- creased BUN/creatin apy (interferes with ULAR FILTERATION RA DE Normal Kidney	CREATININE LEVELS rtionately more than al disease. D BUN : biss. atinine diffuses out irtually absent in bl iuretic harmone) du D CREATININE: ersion of creatine tr inine). ailure. uses false increase i nine ratio). creatinine measure TE: SCRIPTION	an creatinine) (e.g t of extracellular f lood). ue to tubular secre o creatinine). in creatinine with ment). GFR (mL/min/	uid). tion of urea. certain methodol I.73m2) AS	ogies,resulting in norma	al ratio when dehydrati

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	
	G3a G3b G4	normal or high GFRG3aMild decrease in GFRG3bModerate decrease in GFRG4Severe decrease in GFR	normal or high GFRG3aMild decrease in GFR60 -89G3bModerate decrease in GFR30-59G4Severe decrease in GFR15-29



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	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Patholo		(Pathology)
NAME	: Mrs. LALITA SHARMA		
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1817479
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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 ***





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

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