



	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	icrobiology)		(Pathology)
NAME	: Mrs. ANJU SHARMA			
AGE/ GENDER	: 48 YRS/FEMALE		PATIENT ID	: 1590824
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408250017
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 25/Aug/2024 09:39 AM
BARCODE NO.	: 01515665		COLLECTION DATE	: 25/Aug/2024 09:57AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM		REPORTING DATE	: 25/Aug/2024 10:06AM
Test Name		Value	Unit	Biological Reference interval
	SWA	ASTHYA WI	ELLNESS PANEL: G	
	co	MPLETE BLO	DOD COUNT (CBC)	
RED BLOOD CELLS (F	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.4 <sup>L</sup>	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE	C) COUNT	3.11 <sup>L</sup>	Millions/	cmm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER				
		31.4 <sup>L</sup> 101 <sup>H</sup>	%	37.0 - 50.0
	<b>MEAN CORPUSCULAR VOLUME (MCV)</b> by calculated by automated hematology analyzer MEAN CORPUSCULAR HAEMOGLOBIN (MCH)		fL	80.0 - 100.0
MEAN CORPUSCULA			pg	27.0 - 34.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	33.1	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.8	%	11.00 - 16.00
RED CELL DISTRIBUT	TON WIDTH (RDW-SD)	59.2 <sup>H</sup>	fL	35.0 - 56.0
MENTZERS INDEX		32.48	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	X	51.4	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C	OUNT (TLC) ′ by sf cube & microscopy	7220	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC	OOD CELLS (nRBCS) % <i>utomated hematology analyzer</i>	NIL	%	< 10 %
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	52	%	50 - 70





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES	/ BY SF CUBE & MICROSCOPY	34	%	20 - 40
EOSINOPHILS	/ BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES	/ BY SF CUBE & MICROSCOPY	12	%	2 - 12
BASOPHILS		0	%	0 - 1
by FLOW CYTOMETRY ABSOLUTE LEUKOCY	Y BY SF CUBE & MICROSCOPY TES (WBC) COUNT			
ABSOLUTE NEUTROF	· · ·	3754	/cmm	2000 - 7500
	BY SF CUBE & MICROSCOPY	0.455		000 1000
ABSOLUTE LYMPHO	YTE COUNT YBY SF CUBE & MICROSCOPY	2455	/cmm	800 - 4900
ABSOLUTE EOSINOPI		144	/cmm	40 - 440
ABSOLUTE MONOCY		866	/cmm	80 - 880
ABSOLUTE BASOPHIL		0	/cmm	0 - 110
	IER PLATELET PREDICTIVE MARKE	RS.		
PLATELET COUNT (PI	_T)	193000	/cmm	150000 - 450000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE		0.22	%	0.10 - 0.36
MEAN PLATELET VOI		12	fL	6.50 - 12.0
PLATELET LARGE CEL		68000	/cmm	30000 - 90000
PLATELET LARGE CEL		35.2	%	11.0 - 45.0
PLATELET DISTRIBUT by hydro dynamic f	TON WIDTH (PDW) TOCUSING, ELECTRICAL IMPEDENCE	15.8	%	15.0 - 17.0
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 25/Aug/2024 02:49PM
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,		WILLIG DATE	. 20/ Aug/ 2024 02.401 M
CLIENT ADDRESS	. 0349/ I, MICHOLSON ROAD,	AWDALA CAN I I		
Test Name		Value	Unit	Biological Reference interval
•	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)		%	4.0 - 6.4
ESTIMATED AVERAGI by HPLC (HIGH PERFO. INTERPRETATION:	E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	136.98	mg/dL	60.00 - 140.00
		I DIABETES ASSOCIATION		
	REFERENCE GROUP	GLYCOSY	LATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years	/	<5.7	
	t Risk (Prediabetes)		<u>5.7 - 6.4</u> >= 6.5	
U	iagnosing Diabetes		>= 6.5 Age > 19 Years	
		Goals of The		< 7.0
Therapeut	ic goals for glycemic control	Actions Sugg		>8.0
			Age < 19 Years	
		Goal of the		<7.5

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

## 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





	MD (Pathology & Chairman & Cons	Microbiology) sultant Pathologist	MD ( CEO & Consultant	Pathology) Pathologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IROCYTE SEDIMEN	TATION RATE (ESR	)
	ERYTH		•	-
	ERYTH MENTATION RATE (ESR) rgren automated method	75 <sup>H</sup>	mm/1st h	0 - 20

#### **CONDITION WITH LOW ESR**

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

#### NOTE:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.

CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 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.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTRY/	BIOCHEMISTR	Y
		GLUCOSE FAST	NG (F)	
GLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		106.17 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g 2. A fasting plasma g test (after consumpti	ion of 75 ams of alucose) is recom	onsidered normal. ng/dl is considered as glu nmended for all such pat	ients.	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for al atory for diabetic state.



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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILI	E : BASIC	
CHOLESTEROL TOTAL	.: SERUM	173.27	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX				BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
RIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	67.25	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
IDL CHOLESTEROL (I	DIRECT): SERUM	64.81	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI				BORDERLINE HIGH HDL: 30.0 -
				60.0
DL CHOLESTEROL: S	FRUM	95.01	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0
by CALCULATED, SPE		70.01	ing/ dE	ABOVE OPTIMAL: 100.0 - 129.0
				BORDERLINE HIGH: 130.0 - 159.
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTER	ROL: SERUM	108.46	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE				ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
/LDL CHOLESTEROL:		13.45	mg/dL	0.00 - 45.00
by CALCULATED, SPE		110 70		250.00 700.00
OTAL LIPIDS: SERUN by CALCULATED, SPE		413.79	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F	RATIO: SERUM	2.67	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
.DL/HDL RATIO: SER		1.47	RATIO	LOW RISK: 0.50 - 3.0
	CTROPHOTOMETRY			MODERATE RISK: 3.10 - 6.0
by CALCULATED, SPE				HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.04 <sup>L</sup>	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.

 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.
 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
			EST (COMPLETE)	
BILIRUBIN TOTAL: S		0.54	mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY	0.54	ing/uL	ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.31	mg/dL	0.00 - 0.40
-	(UNCONJUGATED): SERUM	0.23	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	YRIDOXAL PHOSPHATE	45.81 <sup>H</sup>	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	37.42	U/L	0.00 - 49.00
AST/ALT RATIO: SER	UM	1.22	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		306.68 <sup>H</sup>	U/L	40.0 - 130.0
	L TRANSFERASE (GGT): SERUM	337 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	6.49	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.54	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.95	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.2	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

## **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:**

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)



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Test Name	N	/alue 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).

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	
	К	DNEY FUNCTION	I TEST (COMPLETE)		
UREA: SERUM		22.13	mg/dL	10.00 - 50.00	
-	MATE DEHYDROGENASE (GLDH)	0.77	· · ·		
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		0.75	mg/dL	0.40 - 1.20	
BLOOD UREA NITROGEN (BUN): SERUM		10.34	mg/dL	7.0 - 25.0	
by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE		12 70	DATIO	10.0 20.0	
RATIO: SERUM	JGEN (BUN)/CREATININE	13.79	RATIO	10.0 - 20.0	
by CALCULATED, SPE	ECTROPHOTOMETRY				
UREA/CREATININE RATIO: SERUM		29.51	RATIO		
by CALCULATED, SPECTROPHOTOMETRY URIC ACID: SERUM		3.48	mg/dL	2.50 - 6.80	
by URICASE - OXIDASE PEROXIDASE					
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY		10.29	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SERUM		3.85	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBL	DATE, SPECTROPHOTOMETRY		J		
ELECTROLYTES					
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)		139.9	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM		3.86	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIVE ELECTRODE)					
CHLORIDE: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	104.93	mmol/L	90.0 - 110.0	
	RULAR FILTERATION RATE				
ESTIMATED GLOME	RULAR FILTERATION RATE	98.1			
(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.



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology)	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME : Mrs.	ANJU SHARMA				
	S/FEMALE	PATIENT ID		: 1590824	
COLLECTED BY : SURJE	SH	<b>REG. NO./LAI</b>	B NO.	:012408250017	
REFERRED BY :		REGISTRATIO	ON DATE	: 25/Aug/2024 09:39	9 AM
BARCODE NO. : 0151	5665	COLLECTION	DATE	: 25/Aug/2024 09:57	7AM
CLIENT CODE. : KOS I	DIAGNOSTIC LAB	<b>REPORTING</b>	DATE	: 25/Aug/2024 11:42	2AM
CLIENT ADDRESS : 6349	/1, NICHOLSON ROAD, AMBAI			0	
Test Name		Value	Unit	Biological F	Reference interval
<ol> <li>9. Certain drugs (e.g. tetracyc INCREASED RATIO (&gt;20:1) WIT</li> <li>1. Postrenal azotemia (BUN ris</li> <li>2. Prerenal azotemia superim</li> <li>DECREASED RATIO (&lt;10:1) WIT</li> <li>1. Acute tubular necrosis.</li> <li>2. Low protein diet and starva</li> <li>3. Severe liver disease.</li> <li>4. Other causes of decreased</li> <li>5. Repeated dialysis (urea ratil</li> <li>6. Inherited hyperammonemia</li> <li>7. SIADH (syndrome of inappro</li> <li>8. Pregnancy.</li> <li>DECREASED RATIO (&lt;10:1) WIT</li> <li>1. Phenacimide therapy (accel</li> <li>2. Rhabdomyolysis (releases r</li> <li>3. Muscular patients who dev</li> <li>INAPPROPIATE RATIO:</li> <li>1. Diabetic ketoacidosis (acetors</li> </ol>	H ELEVATED CREATININE LEVEL ses disproportionately more th posed on renal disease. H DECREASED BUN : tion. urea synthesis. her than creatinine diffuses ou as (urea is virtually absent in b opiate antidiuretic harmone) d H INCREASED CREATININE: lerates conversion of creatine f nuscle creatinine). elop renal failure. pacetate causes false increase BUN/creatinine ratio).	an creatinine) (e.g. obstru it of extracellular fluid). lood). ue to tubular secretion of to creatinine). in creatinine with certair	urea. n methodologio	-	I ratio when dehydration

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

Kidney failure

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

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	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultan	obiology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. ANJU SHARMA		
AGE/ GENDER	: 48 YRS/FEMALE	PATIENT ID	: 1590824
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	: 012408250017
REFERRED BY	:	<b>REGISTRATION DATE</b>	: 25/Aug/2024 09:39 AM
BARCODE NO.	: 01515665	COLLECTION DATE	: 25/Aug/2024 09:57AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 25/Aug/2024 11:42AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT	
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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