

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mr. DEEPAK				
AGE/ GENDER	: 53 YRS/MALE		PATIENT ID	: 1735663	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:01250126	
REFERRED BY	:		REGISTRATION DATE	:26/Jan/202	
BARCODE NO.	: 01524454		COLLECTION DATE	: 26/Jan/202 : 26/Jan/202	
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB/	ALA CANTI	REPORTING DATE	: 20/ Jan/ 202	5 11:49AW
Test Name		Value	Unit	Bio	logical Reference interval
			ELLNECC DANEL. C		
			ELLNESS PANEL: G		
		LELE BI	LOOD COUNT (CBC)		
HAEMOGLOBIN (H	S (RBCS) COUNT AND INDICES	14.5	gm/dL	19	0 - 17.0
by CALORIMETRIC			U U		
RED BLOOD CELL ((RBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	4.56	Millions	/cmm 3.5	0 - 5.00
PACKED CELL VOL	UME (PCV) AUTOMATED HEMATOLOGY ANALYZER	43.2	%	40.	0 - 54.0
MEAN CORPUSCUL		94.8	fL	80.	0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	31.7	pg	27.	0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	33.4	g/dL	32.	0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	14.1	%	11.	00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	50.3	fL	35.	0 - 56.0
MENTZERS INDEX		20.79	RATIO	BE 13	TA THALASSEMIA TRAIT: <
					ON DEFICIENCY ANEMIA:
GREEN & KING INI	DEX	29.22	RATIO		TA THALASSEMIA TRAIT:<=
-					ON DEFICIENCY ANEMIA: >
WHITE BLOOD CE	LLS (WBCS)				
TOTAL LEUCOCYTI	E COUNT (TLC) y by sf cube & microscopy	7790	/cmm	40	00 - 11000
NUCLEATED RED H	BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.0	0 - 20.00
NUCLEATED RED H	BLOOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZER	NIL	%	< 1	0 %





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MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Vinay Chopra



Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

CEPAK		
/MALE]	PATIENT ID	: 1735663
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I, NICHOLSON ROAD, AMBALA CANTT		
1	/MALE H 54 AGNOSTIC LAB	YMALE PATIENT ID H REG. NO./LAB NO. REGISTRATION DATE 54 COLLECTION DATE AGNOSTIC LAB REPORTING DATE

Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by SF cube & microscopy	52	%	50 - 70
LYMPHOCYTES by flow cytometry by SF cube & microscopy	36	%	20 - 40
EOSINOPHILS by flow cytometry by SF cube & microscopy	4	%	1 - 6
MONOCYTES by flow cytometry by SF cube & microscopy	8	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by sf cube & microscopy	4051	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2804	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	312	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by flow cytometry by sf cube & microscopy	623	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by flow cytometry by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	214000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.26	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	12 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	92000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	43.1	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	16.4	%	15.0 - 17.0





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Te of Norma	V	alua Thuật	Biological Defenses of internal

Test Name	Value	Unit	Biological Reference interval



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference	interval
	GLYCO EMOGLOBIN (HbA1c):	DSYLATED HAEM 5.6	OGLOBIN (HBA1) %	C) 4.0 - 6.4	
ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	114.02	mg/dL	60.00 - 140.00	
INTERPRETATION:	AS PER AMERICAN	DIABETES ASSOCIATION	N (ADA):		
	REFERENCE GROUP		SYLATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years		<5.7		
	t Risk (Prediabetes)		5.7 - 6.4		
D	iagnosing Diabetes		>= 6.5		
			Age > 19 Years		
Theses	is goals for glycorris sector	Goals of Th		< 7.0	
inerapeut	ic goals for glycemic control	Actions Sug		>8.0	
			Age < 19 Years	7.5	
		Goal of the	erapy:	<7.5	

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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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
est Name		Value	Unit	Biological Reference interval
An ESR can be affect s C-reactive protein This test may also be stemic lupus erythe ONDITION WITH LOW low ESR can be seen oolycythaemia), sign s sickle cells in sickle OTE: ESR and C - reactive	be used to monitor disease activity matosus V ESR n with conditions that inhibit the n- ificantly high white blood cell cour e cell anaemia) also lower the ESR e protein (C-RP) are both markers o s not change as rapidly as does CRF	flammation. For t and response to ormal sedimenta nt (leucocytosis) , f inflammation. P, either at the st	his reason, the ESR is ty therapy in both of the a tion of red blood cells, si and some protein abno	bicallý 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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MBBS, MD (PATHOLOGY)







		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOI	RTING DATE	: 26/Jan/2025 01:42PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			DIOGUENUCT	'DV
	CLINI	ICAL CHEMISTRY/	BIOCHEMISI	ĸı
	CLINI	ICAL CHEMISTRY/ GLUCOSE FAST		K1

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. 3. 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 PROFIL	F · BASIC	
CHOLESTEROL TO	TAL · SFRUM	147.3	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O		147.5	ing/ uL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	87.25	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM Ton	65.82	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		64.03	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		81.48	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
VLDL CHOLESTER		17.45	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
TOTAL LIPIDS: SEE by CALCULATED, SPE	RUM	381.85	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM	2.24	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		0.97	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		1.33 ^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.

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. Yugam Chopr

gm/dL

gm/dL

RATIO

3.50 - 5.50

2.30 - 3.50

1.00 - 2.00

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BILIRUBIN TOTAL		FUNCTION 0.41	TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00
BILIRUBIN DIRECT	C (CONJUGATED): SERUM	0.17	mg/dL	ADULT: 0.00 - 1.20 0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	0.24	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	21.1	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	18	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		1.17	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	123.1	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	81.8 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		8	gm/dL	6.20 - 8.00

Dr Vinay Chopra

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

by CALCULATED, SPECTROPHOTOMETRY

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:

ALBUMIN: SERUM

GLOBULIN: SERUM

by BROMOCRESOL GREEN

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)

4.04

3.96^H

1.02





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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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Test Name		Value	Unit	Biological Reference interv	al
	KID	NEY FUNCTION 7	FEST (COMPLETE)		
UREA: SERUM		52.35 ^H	mg/dL	10.00 - 50.00	
by OREASE - GLOTAM. CREATININE: SERU by ENZYMATIC, SPECT		1.6 ^H	mg/dL	0.40 - 1.40	
BLOOD UREA NITR	OGEN (BUN): SERUM	24.46	mg/dL	7.0 - 25.0	
BLOOD UREA NITR RATIO: SERUM	OGEN (BUN)/CREATININE	15.29	RATIO	10.0 - 20.0	
by CALCULATED, SPE UREA/CREATININE by CALCULATED, SPE	E RATIO: SERUM	32.72	RATIO		
URIC ACID: SERUM	FPEROXIDASE	5.61	mg/dL	3.60 - 7.70	
CALCIUM: SERUM by ARSENAZO III, SPEC		9.37	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SE by PHOSPHOMOLYBD	RUM ATE, SPECTROPHOTOMETRY	4.53	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	144.2	mmol/L	135.0 - 150.0	
POTASSIUM: SERUN by ISE (ION SELECTIVE	Л	4.54	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	108.15	mmol/L	90.0 - 110.0	
	ERULAR FILTERATION RAT ERULAR FILTERATION RATI				

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.

3. GI haemorrhage.



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	1	Dr. Vinay Chopra 1D (Pathology & Micro Chairman & Consultant				
NAME	: Mr. DEEPAK					
AGE/ GENDER			БАТ		. 1795009	
	: 53 YRS/MAL	7		ENT ID	: 1735663	
OLLECTED BY	: SURJESH		REG	NO./LAB NO.	:01250126002	3
EFERRED BY	:		REG	STRATION DATE	:26/Jan/202511	:22 AM
ARCODE NO.	:01524454		COL	ECTION DATE	: 26/Jan/2025 11	:33AM
LIENT CODE.	: KOS DIAGNO	STIC LAB	REP	ORTING DATE	: 26/Jan/2025 02	:52PM
LIENT ADDRESS	: 6349/1, NICI	IOLSON ROAD, AMBAI	LA CANTT			
Fest Name			Value	Unit	Biologi	cal Reference interval
 Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< 	tetracycline, glu 20:1) WITH ELEVA a (BUN rises disp superimposed o 10:1) WITH DECR	creatinine production) cocorticoids) TED CREATININE LEVEL roportionately more th n renal disease.		.g. obstructive urop	pathy).	
B. Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Nuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE	ass (subnormal tetracycline, glu co:1) WITH ELEVA a (BUN rises disp superimposed o to:1) WITH DECR osis. and starvation. e. creased urea syr (urea rather thar monemias (urea of inappropiate a to:1) WITH INCRE py (accelerates of eleases muscle of who develop rent sis (acetoacetato creased BUN/cre rapy (interferes v JLAR FILTERATIO	creatinine production) cocorticoids) TED CREATININE LEVEL roportionately more the n renal disease. EASED BUN : Creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine reatinine). hal failure. e causes false increase eatinine ratio). vith creatinine measure NATE: DESCRIPTION	an creatinine) (e t of extracellula lood). ue to tubular se to creatinine). in creatinine wi ement). GFR (mL/mi	r fluid). cretion of urea. th certain methodo	logies,resulting in nor	mal ratio when dehydratio
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	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. DEEPAK		
AGE/ GENDER	: 53 YRS/MALE	PATIENT ID	: 1735663
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501260023
REFERRED BY	:	REGISTRATION DATE	: 26/Jan/2025 11:22 AM
BARCODE NO.	: 01524454	COLLECTION DATE	: 26/Jan/2025 11:33AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 26/Jan/2025 02:52PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA 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

Rechecked twice.

End Of Report





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