

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micro	biology)	Dr. Yugam MD (Chopra Pathology)
	Chairman & Consultant		CEO & Consultant	
NAME : Mrs.	ANU AGGARWAL			
AGE/ GENDER : 49 Y	RS/FEMALE	1	PATIENT ID	: 1695455
COLLECTED BY : SURJ	ESH	I	REG. NO./LAB NO.	: 012412100010
REFERRED BY :		1	REGISTRATION DATE	: 10/Dec/2024 09:10 AM
BARCODE NO. : 0152	2245	(COLLECTION DATE	: 10/Dec/2024 09:15AM
	DIAGNOSTIC LAB		REPORTING DATE	: 10/Dec/2024 09:29AM
CLIENT ADDRESS : 6349	0/1, NICHOLSON ROAD, AMBA	LA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WE	LLNESS PANEL: G	
			OD COUNT (CBC)	
RED BLOOD CELLS (RBCS				
HAEMOGLOBIN (HB)	,	11.9 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RBC) C	OUNT	4.76	Millions/o	cmm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING		4.70	WIIIIOIIS/ G	3.30 - 3.00
PACKED CELL VOLUME (P by CALCULATED BY AUTOMAT		38.7	%	37.0 - 50.0
MEAN CORPUSCULAR VOL	UME (MCV)	81.4	fL	80.0 - 100.0
by CALCULATED BY AUTOMAT MEAN CORPUSCULAR HAI		24.9 ^L	pg	27.0 - 34.0
by CALCULATED BY AUTOMAT	ED HEMATOLOGY ANÁLYZER			
MEAN CORPUSCULAR HEN by CALCULATED BY AUTOMAT	AOGLOBIN CONC. (MCHC)	30.6 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION		15.1	%	11.00 - 16.00
by CALCULATED BY AUTOMAT RED CELL DISTRIBUTION		46.1	fL	35.0 - 56.0
by CALCULATED BY AUTOMAT	ED HEMATOLOGY ANALYZER	171	DATIO	
MENTZERS INDEX by CALCULATED		17.1	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING INDEX		25.72	RATIO	>13.0 BETA THALASSEMIA TRAIT:<=
by CALCULATED		20.12	101110	65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (W	<u>BCS)</u>			00.0
TOTAL LEUCOCYTE COUN		10310	/cmm	4000 - 11000
by FLOW CYTOMETRY BY SF C NUCLEATED RED BLOOD (NIL		0.00 - 20.00
	TOLOGY ANALYZER			
		NILL	%	< 10 %
NUCLEATED RED BLOOD (by CALCULATED BY AUTOMAT		NIL	70	< 10 /0

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	UCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	63	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	29	%	20 - 40
EOSINOPHILS		2	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY Y BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
ABSOLUTE NEUTR	OPHIL COUNT y by sf cube & microscopy	6495	/cmm	2000 - 7500
ABSOLUTE LYMPH	OCYTE COUNT y by sf cube & microscopy	2990	/cmm	800 - 4900
ABSOLUTE EOSINC)PHIL COUNT Y by sf cube & microscopy	206	/cmm	40 - 440
ABSOLUTE MONOC		619	/cmm	80 - 880
ABSOLUTE BASOPI	HIL COUNT y by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND C	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT by HYDRO DYNAMIC F	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	334000	/cmm	150000 - 450000
PLATELETCRIT (PC by hydro dynamic f	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.32	%	0.10 - 0.36
MEAN PLATELET V by hydro dynamic f	OLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	10	fL	6.50 - 12.0
	CELL COUNT (P-LCC)	79000	/cmm	30000 - 90000
	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	23.7	%	11.0 - 45.0
by HYDRO DYNAMIC F	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.2	%	15.0 - 17.0

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name		Value Unit	Biological Reference interval





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	: 10/Dec/2024 02:24PM
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Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HAEMOGL	OBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD	MOGLOBIN (HbA1c):	5.9	%	4.0 - 6.4
ESTIMATED AVERAGE		122.63	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAF	BETES ASSOCIATION (ADA):		
REF	ERENCE GROUP	GLYCOSYLATED HEN	OGLOGIB (HBAIC) in	1%
	etic Adults >= 18 years		5.7	
	isk (Prediabetes)		- 6.4	
Diag	nosing Diabetes		6.5	
		3	19 Years	
There is a	goals for glycemic control	Goals of Therapy:	< 7.0	
	JUAIS TOF DIVCENIC CONTOF	Actions Suggested:	>8.0	
i nerapeutic (g-=		19 Years	

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.





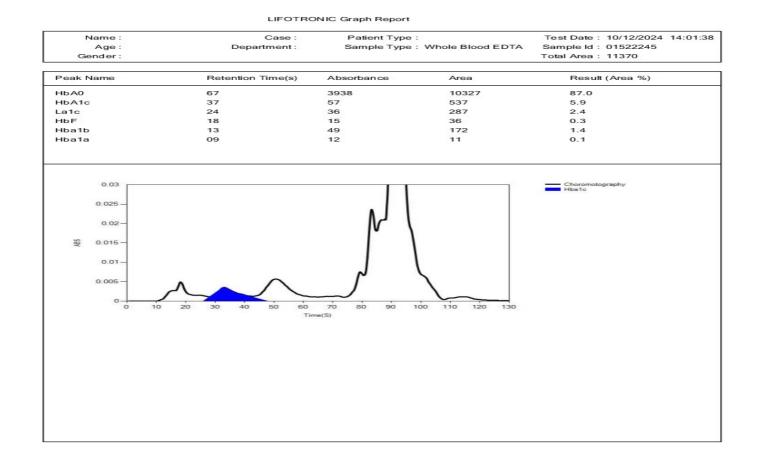
DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







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Test Name	Val	ue Unit	Biological Reference interval





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IENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Dec/2024 09:41AM
IENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	ſ	
est Name		Value	Unit	Biological Reference interval
y RED CELL AGGRE TERPRETATION: ESR is a non-speci- mune disease, but An ESR can be affer C-reactive protein This test may also temic lupus eryth NDITION WITH LO OW ESR can be see olycythaemia), sig	does not tell the health practitic cted by other conditions besides be used to monitor disease active ematosus W ESR In with conditions that inhibit the	It often indicates oner exactly whe inflammation. F ity and response e normal sedime ount (leucocytos SR.	re the inflammation is in the or this reason, the ESR is ty e to therapy in both of the a ntation of red blood cells, s	ion associated with infection, cancer and auto
sickle cells in sick DTE: ESR and C - reactiv Generally, ESR doo CRP is not affecteo If the ESR is elevat Women tend to ha Drugs such as dex	es not change as rapidly as does (by as many other factors as is ES ed, it is typically a result of two ive a higher ESR, and menstruation	CRP, either at the R, making it a be ypes of proteins on and pregnanc ⁴	e start of inflammation or a etter marker of inflammation , globulins or fibrinogen. y can cause temporary eleva	1.





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N ROAD, AMBALA CANTI		
Value	Unit	Biological Reference interval
N	I ROAD, AMBALA CANTT Value	I ROAD, AMBALA CANTT

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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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		Chopra y & Microbiology) Consultant Pathologist		(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	104.19	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		101.10	ing, di	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
				240.0
FRIGLYCERIDES: S		75.74	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
	L (DIRECT): SERUM	52.09	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ION			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROI		36.95	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
				VERY HIGH: $> OR = 190.0$
NON HDL CHOLEST by CALCULATED, SPE		52.1	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
				VERY HIGH: $> OR = 220.0$
LDL CHOLESTERC		15.15	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SER	UM	284.12 ^L	mg/dL	350.00 - 700.00
by CALCULATED, SPE			DATIO	
CHOLESTEROL/HD by CALCULATED, SPE		2	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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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		0.71	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	1.45 ^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.

 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
	LIVER	FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAI		0.71	mg/dL	INFANT: 0.20 - 8.00
•	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM SPECTROPHOTOMETRY	0.24	mg/dL	0.00 - 0.40
BILIRUBIN INDIRI	ECT (UNCONJUGATED): SERUM	0.47	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	-	13.2	U/L	7.00 - 45.00
SGPT/ALT: SERUN	YRIDOXAL PHOSPHATE I	16.4	U/L	0.00 - 49.00
	YRIDOXAL PHOSPHATE	10.4	071	0.00 - 43.00
AST/ALT RATIO: S		0.8	RATIO	0.00 - 46.00
ALKALINE PHOSP	ECTROPHOTOMETRY HATASE: SERUM	95.92	U/L	40.0 - 130.0
by PARA NITROPHEN	NYL PHOSPHATASE BY AMINO METHYL			
PROPANOL GAMMA GLUTAMY	L TRANSFERASE (GGT): SERUM	24.26	U/L	0.00 - 55.0
by SZASZ, SPECTRO		21.20		
TOTAL PROTEINS		7	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.03	gm/dL	3.50 - 5.50
by BROMOCRESOL (C	
GLOBULIN: SERUN	NI ECTROPHOTOMETRY	2.97	gm/dL	2.30 - 3.50
A : G RATIO: SERU		1.36	RATIO	1.00 - 2.00
	ECTROPHOTOMETRY			

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:

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





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INTERPRETATION





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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).

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



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	KIDNE	EY FUNCTION 2	FEST (COMPLETE)	
UREA: SERUM		21.53	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	NATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERU		0.89	mg/dL	0.40 - 1.20
by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		10.06	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE		11.3	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININE RATIO: SERUM		24.19	RATIO	
by CALCULATED, SPECTROPHOTOMETRY URIC ACID: SERUM		5.38	ma/dI	2.50 - 6.80
by URICASE - OXIDAS		5.38	mg/dL	2.30 - 0.80
CALCIUM: SERUM		9.2	mg/dL	8.50 - 10.60
by ARSENAZO III, SPECTROPHOTOMETRY PHOSPHOROUS: SERUM		3.31	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	5.51	ilig/ uL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM		138.9	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERU	· · · · · · · · · · · · · · · · · · ·	4.4	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELECTRODE)		4.4	IIIII01/ L	3.30 - 3.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)		104.18	mmol/L	90.0 - 110.0
	/E ELECTRODE) IERULAR FILTERATION RATE			
	ERULAR FILTERATION RATE	79.4		
	icon pro, and post ronal azotomia			

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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist Cl				Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist			
NAME	: Mrs. ANU A	GGARWAL						
AGE/ GENDER	: 49 YRS/FEI	MALE		PATIENT ID		: 1695455		
COLLECTED BY	: SURJESH			REG. NO./LAB	NO.	:0124121000	10	
REFERRED BY				REGISTRATION		: 10/Dec/2024		
BARCODE NO.	:01522245			COLLECTION D		: 10/Dec/2024		
CLIENT CODE.	: KOS DIAGN			REPORTING DA	ТЕ	:10/Dec/2024	11:27AM	
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD, AME	ALA CANTT					
Fest Name			Value		Unit	Biolog	gical Reference i	interval
5. Excess protein inta burns, surgery, cache 7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<	xia, high fever (e.g. ureter co ass (subnorma tetracycline, g 0:1) WITH ELEN (BUN rises dis superimposed 0:1) WITH DEC	lostomy) Il creatinine productio lucocorticoids) /ATED CREATININE LEV proportionately more on renal disease.	n) E LS :	-			drome, high prote	in diet,
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Test Name		Value Unit	Biological Reference interval
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 10/Dec/2024 11:27AM
BARCODE NO.	: 01522245	COLLECTION DATE	: 10/Dec/2024 09:15AM
REFERRED BY	:	REGISTRATION DATE	: 10/Dec/2024 09:10 AM
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012412100010
AGE/ GENDER	: 49 YRS/FEMALE	PATIENT ID	: 1695455
NAME	: Mrs. ANU AGGARWAL		
	Chairman & Consulta	G, /	
	Dr. Vinay Chopr MD (Pathology & Mic		m Chopra D (Pathology)

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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