

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		Pathology)
IAME	: Mr. SATWANT SINGH			
AGE/ GENDER	: 74 YRS/MALE]	PATIENT ID	: 1786930
COLLECTED BY	: SURJESH	1	REG. NO./LAB NO.	: 012503110019
EFERRED BY	:	1	REGISTRATION DATE	: 11/Mar/2025 09:39 AM
BARCODE NO.	:01526915		COLLECTION DATE	:11/Mar/2025 10:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	1	REPORTING DATE	: 11/Mar/2025 10:48AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
			LLNESS PANEL: G OOD COUNT (CBC)	
ED BLOOD CELLS	<u>S (RBCS) COUNT AND INDICES</u>			
IAEMOGLOBIN (H by calorimetric	B)	12.3	gm/dL	12.0 - 17.0
ED BLOOD CELL ((RBC) COUNT	4.69	Millions/	cmm 3.50 - 5.00
ACKED CELL VOL	UME (PCV) automated hematology analyzer	38.8 ^L	%	40.0 - 54.0
IEAN CORPUSCUL	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	82.6	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH)	26.3 ^L	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	31.8 ^L	g/dL	32.0 - 36.0
ED CELL DISTRIB	UTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	15.4	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	47.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		17.61	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by calculated	DEX	27.2	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
	TIS (WRCS)			
WHITE BLOOD CE			/cmm	4000 - 11000
OTAL LEUCOCYTI		7450	/ chilli	
OTAL LEUCOCYTI by flow cytometr NUCLEATED RED F	E COUNT (TLC)	7450 NIL		0.00 - 20.00

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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				/
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LE	EUCOCYTE COUNT (DLC)			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	64	%	50 - 70
LYMPHOCYTES		25	%	20 - 40
-	Y BY SF CUBE & MICROSCOPY		24	
EOSINOPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES		7	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
IMMATURE GRANU	JLOCTE (IG) % y by sf cube & microscopy	0	%	0 - 5.0
	OCYTES (WBC) COUNT			
ABSOLUTE NEUTR		4768	/cmm	2000 - 7500
by FLOW CYTOMETR ABSOLUTE LYMPH	Y BY SF CUBE & MICROSCOPY	1862	/cmm	800 - 4900
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINO	OPHIL COUNT y by sf cube & microscopy	298	/cmm	40 - 440
ABSOLUTE MONOC	CYTE COUNT	522	/cmm	80 - 880
by FLOW CYTOMETR ABSOLUTE BASOP	Y BY SF CUBE & MICROSCOPY	0	lomm	0 - 110
	HIL COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	URE GRANULOCYTE COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0.0 - 999.0
•	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT by hydro dynamic f	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	127000 ^L	/cmm	150000 - 450000
PLATELETCRIT (PC by hydro dynamic f	CT) FOCUSING, ELECTRICAL IMPEDENCE	0.19	%	0.10 - 0.36
MEAN PLATELET V	OLUME (MPV)	15 ^H	fL	6.50 - 12.0
PLATELET LARGE	FOCUSING, ELECTRICAL IMPEDENCE CELL COUNT (P-LCC)	68000	/cmm	30000 - 90000
•	FOCUSING, ELECTRICAL IMPEDENCE CELL RATIO (P-LCR)	63.2 ^H	%	11.0 - 45.0
	FOCUSING, ELECTRICAL IMPEDENCE	00.2		· · · · · · · · · · · · · · · · · · ·





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Test Name		Value	Unit	Biological Reference interval
	BUTION WIDTH (PDW)	16.4	%	15.0 - 17.0
ADVICE		KINDLY	Y CORRELATE CLINICALI	LY

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED



am

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Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HAEMOG	LOBIN (HBA1C)	
GLYCOSYLATED HAEM WHOLE BLOOD	IOGLOBIN (HbA1c):	6.3	%	4.0 - 6.4
ESTIMATED AVERAGE		134.11	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAF	BETES ASSOCIATION (ADA):		
REF	ERENCE GROUP		EMOGLOGIB (HBAIC) ir	1%
Non diabe	tic Adults >= 18 years		<5.7	
At Ri	sk (Prediabetes)		5.7 – 6.4	
Diagr	nosing Diabetes		>= 6.5	
Therapeutic g	joals for glycemic control	Age Goals of Therapy: Actions Suggested:	> 19 Years < 7.0 >8.0	
			< 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.





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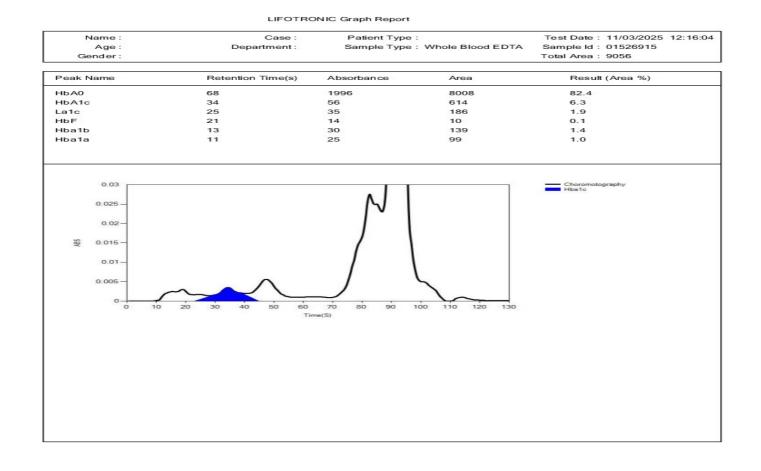
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Test Name	Valu	e Unit	Biological Reference interval





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Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIMEN	TATION RATE (ESR)
immune 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 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	does not tell the health practitione cted by other conditions besides in be used to monitor disease activity ematosus W ESR n with conditions that inhibit the r hificantly high white blood cell cou e cell anaemia) also lower the ESF e protein (C-RP) are both markers of es not change as rapidly as does CR by as many other factors as is ESR, ed, it is typically a result of two typ we a higher ESR, and menstruation	er exactly where the inflammation. For this y and response to the normal sedimentation nt (leucocytosis), ar cof inflammation. P, either at the start making it a better m bes of proteins, globing and pregnancy can company set of the context of the start	inflammation is in the s reason, the ESR is ty erapy in both of the a n of red blood cells, s nd some protein abno of inflammation or a: harker of inflammatior ulins or fibrinogen. ause temporary eleva	rpically used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count ormalities. Some changes in red cell shape (such s it resolves. n .

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Test Name		Value	Unit	Biological Reference interval
	CLINI	ICAL CHEMISTRY		TRY
		GLUCOSE FAST	ГING (F)	

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IN ACCRDANCE 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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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TOTA	AL · SFRUM	103.33	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXI		100.00	ing, dL	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				HIGH CHOLESTEROL: > 0R = 240.0
FRIGLYCERIDES: SE		77.23	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPH	IATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL by SELECTIVE INHIBITIC		49.93	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0
by delet in the internet				60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL: by CALCULATED, SPEC		37.95	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.
by OALCOLATED, OF LC				BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTI	EROL: SERUM	53.4	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPEC	TROPHOTOMETRY		Ŭ	ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
		15 45		VERY HIGH: $> OR = 220.0$
VLDL CHOLESTERO		15.45	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU		283.89 ^L	mg/dL	350.00 - 700.00
by CALCULATED, SPEC CHOLESTEROL/HDI		2.07	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPEC		2.01	101110	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		0.76	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		1.55 ^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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	: SERUM PECTROPHOTOMETRY	0.78	N TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.15	mg/dL	0.00 - 0.40
	CCT (UNCONJUGATED): SERUM	0.63	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	14.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM		13.5	U/L	0.00 - 49.00
AST/ALT RATIO: S		1.06	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	66.42	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	16.56	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.17	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.83	gm/dL	2.30 - 3.50
A : G RATIO: SERUI	M	1.47	RATIO	1.00 - 2.00

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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	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mr. SATWANT SINGH			
AGE/ GENDER	: 74 YRS/MALE]	PATIENT ID	: 1786930
COLLECTED BY	: SURJESH]	REG. NO./LAB NO.	: 012503110019
REFERRED BY	:]	REGISTRATION DATE	: 11/Mar/2025 09:39 AM
BARCODE NO.	:01526915		COLLECTION DATE	: 11/Mar/2025 10:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB]	REPORTING DATE	: 11/Mar/2025 01:09PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		57.45 ^H	mg/dL	10.00 - 50.00
-	NATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		1.44 ^H	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		26.85 ^H	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE		18.65	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ		39.9	RATIO	
by CALCULATED, SPE		0.00	()]	0.00 7.70
URIC ACID: SERUM by URICASE - OXIDAS		6.39	mg/dL	3.60 - 7.70
CALCIUM: SERUM		9.12	mg/dL	8.50 - 10.60
by ARSENAZO III, SPECTROPHOTOMETRY PHOSPHOROUS: SERUM		3.78	ma/dI	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	3.78	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM		140.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERU		3.82	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)			
CHLORIDE: SERUN by ISE (ION SELECTIV		105.15	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	51		
INTERPRETATION:	icon pro, and post ronal azatomia			
	veen 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	MD	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
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Test Name		T	Value	Unit	Biological Re	eference interval
2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr	superimposed on r 10:1) WITH DECREAS osis.	enal disease.	an creatinine) (e.g. obstru	ctive uropa	iny).	
 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 	e. creased urea synth (urea rather than cr monemias (urea is of inappropiate anti IO:1) WITH INCREAS py (accelerates con eleases muscle crea who develop renal : sis (acetoacetate cr creased BUN/creat rapy (interferes with JLAR FILTERATION R Norma Kidne norm	reatinine diffuses ou virtually absent in bi diuretic harmone) du ED CREATININE: aversion of creatine t atinine). failure. auses false increase inine ratio). n creatinine measure	ue to tubular secretion of to creatinine). in creatinine with certain	methodolo) ASS	gies,resulting in normal ra OCIATED FINDINGS No proteinuria esence of Protein , umin or cast in urine	atio when dehydratio
 Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin there ESTIMATED GLOMERI G1 G2 	e. creased urea synth (urea rather than cr monemias (urea is of inappropiate anti IO:1) WITH INCREAS py (accelerates con eleases muscle crea who develop renal : sis (acetoacetate cr creased BUN/creat rapy (interferes with JLAR FILTERATION R D Norma Kidne norm Mild of	eatinine diffuses ou virtually absent in bi diuretic harmone) du ED CREATININE: nversion of creatine t atinine). failure. auses false increase inine ratio). n creatinine measure ATE: ESCRIPTION I kidney function ey damage with nal or high GFR	lood). ue to tubular secretion of to creatinine). in creatinine with certain ement). GFR (mL/min/1.73m2 >90 >90	methodolo) ASS	OCIATED FINDINGS	atio when dehydratic
 Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin there STIMATED GLOMERI G1 G2 	e. creased urea synth (urea rather than cr monemias (urea is of inappropiate anti IO:1) WITH INCREAS py (accelerates con eleases muscle crea who develop renal : sis (acetoacetate cr creased BUN/creat rapy (interferes with JLAR FILTERATION R D Norma Kidne norm Mild o Modera	reatinine diffuses ou virtually absent in bi diuretic harmone) du ED CREATININE: iversion of creatine t atinine). failure. auses false increase inine ratio). n creatinine measure ATE: ESCRIPTION I kidney function ey damage with nal or high GFR_ decrease in GFR	lood). ue to tubular secretion of to creatinine). in creatinine with certain ement). GFR (mL/min/1.73m2 >90 >90 >90 60 -89	methodolo) ASS	OCIATED FINDINGS	atio when dehydratic





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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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