

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chop MD (Pathology & Mic Chairman & Consulta	crobiology)		(Pathology)
NAME	: Mrs. SWEETY GOEL			
AGE/ GENDER	: 64 YRS/FEMALE		PATIENT ID	: 1621448
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409220050
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 22/Sep/2024 11:17 AM
BARCODE NO.	: 01517485		COLLECTION DATE	: 22/Sep/2024 11:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Sep/2024 12:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SIMA	ν. ΔΥΗΤΆ	ELLNESS PANEL: G	
			DOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		12.8	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB		4.72	Millions/cr	mm 3.50 - 5.00
by HYDRO DYNAMIC FO PACKED CELL VOLUM	DCUSING, ELECTRICAL IMPEDENCE	40.3	%	37.0 - 50.0
	JTOMATED HEMATOLOGY ANALYZER	40.5	70	37.0 - 30.0
MEAN CORPUSCULAR	R VOLUME (MCV) UTOMATED HEMATOLOGY ANALYZER	85.4	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	27.1	pg	27.0 - 34.0
-	JTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULAI	R HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.7 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIBUTI	ON WIDTH (RDW-CV)	13.5	%	11.00 - 16.00
	ON WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER	43.1	fL	35.0 - 56.0
MENTZERS INDEX		18.09	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	K	24.41	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>(WBCS)</u>			
TOTAL LEUCOCYTE CO	DUNT (TLC) BY SF CUBE & MICROSCOPY	7850	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC	OD CELLS (nRBCS) % JTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
	UTTE COUNT (DLC)	50	%	50 70
NEUTROPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	52	70	50 - 70



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Test Name		Value	Unit	Biological Reference interval	
LYMPHOCYTES		38	%	20 - 40	
•	RY BY SF CUBE & MICROSCOPY	2	0/	1 /	
EOSINOPHILS	RY BY SF CUBE & MICROSCOPY	3	%	1 - 6	
MONOCYTES		7	%	2 - 12	
	RY BY SF CUBE & MICROSCOPY				
BASOPHILS		0	%	0 - 1	
•	RY BY SF CUBE & MICROSCOPY				
	YTES (WBC) COUNT				
ABSOLUTE NEUTRO	DPHIL COUN I RY BY SF CUBE & MICROSCOPY	4082	/cmm	2000 - 7500	
ABSOLUTE LYMPHC		2983	/cmm	800 - 4900	
	RY BY SF CUBE & MICROSCOPY	2700	/ drillin	000 1700	
ABSOLUTE EOSINO		236	/cmm	40 - 440	
-	RY BY SF CUBE & MICROSCOPY	550		00,000	
ABSOLUTE MONOC	YTE COUNT RY BY SF CUBE & MICROSCOPY	550	/cmm	80 - 880	
ABSOLUTE BASOPH		0	/cmm	0 - 110	
	RY BY SF CUBE & MICROSCOPY				
PLATELETS AND OT	HER PLATELET PREDICTIVE MARKE	<u>RS.</u>			
PLATELET COUNT (F		196000	/cmm	150000 - 450000	
	FOCUSING, ELECTRICAL IMPEDENCE	0.00	0/	0.10, 0.27	
PLATELETCRIT (PCT	) FOCUSING, ELECTRICAL IMPEDENCE	0.23	%	0.10 - 0.36	
MEAN PLATELET VC		12	fL	6.50 - 12.0	
	FOCUSING, ELECTRICAL IMPEDENCE				
PLATELET LARGE CE		75000	/cmm	30000 - 90000	
	FOCUSING, ELECTRICAL IMPEDENCE	20 1	%	11.0 - 45.0	
PLATELET LARGE CE	ELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	38.1	70	11.0 - 43.0	
	JTION WIDTH (PDW)	17	%	15.0 - 17.0	
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE				
NOTE: TEST COND	UCTED ON EDTA WHOLE BLOOD				

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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Sep/2024 02:47PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		r r r
Test Name		Value	Unit	Biological Reference interv
GLYCOSYLATED HAEI NHOLE BLOOD	GLY( MOGLOBIN (HbA1c):	OSYLATED HA 9.5 <sup>H</sup>	AEMOGLOBIN (HBA1C) %	4.0 - 6.4
ESTIMATED AVERAG	DRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY)	225.95 <sup>H</sup>	mg/dL	60.00 - 140.00
ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u>	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN	225.95 <sup>H</sup> DIABETES ASSOCI	ATION (ADA):	
ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u>	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	225.95 <sup>H</sup> DIABETES ASSOCI	ATION (ADA): LYCOSYLATED HEMOGLOGIE	
ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	225.95 <sup>H</sup> DIABETES ASSOCI	ATION (ADA): .YCOSYLATED HEMOGLOGIE <5.7	
ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	225.95 <sup>H</sup> DIABETES ASSOCI	ATION (ADA): .YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4	
ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	225.95 <sup>H</sup> DIABETES ASSOCI	ATION (ADA): _YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5	B (HBAIC) in %
ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	225.95 <sup>H</sup> DIABETES ASSOCIA	ATION (ADA): _YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	B (HBAIC) in %
ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	225.95 <sup>H</sup> DIABETES ASSOCIA	ATION (ADA): _YCOSYLATED HEMOGLOGIE <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years of Therapy:	B (HBAIC) in %
ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	225.95 <sup>H</sup> DIABETES ASSOCIA	ATION (ADA): _YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	3 (HBAIC) in % < 7.0 >8.0

**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 Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIMENTATIO	N RATE (ESR)	
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practitic cted by other conditions besides	t often indicates the presence ner exactly where the inflamm inflammation. For this reason,	nation is in the b , the ESR is typic	<b>0 - 20</b> In associated with infection, cancer and auto- body or what is causing it. cally used in conjunction with other test such
3. This test may also systemic lupus erytho CONDITION WITH LOV A low ESR can be see (polycythaemia), sigr	be used to monitor disease activ ematosus <b>W ESR</b> n with conditions that inhibit the	e normal sedimentation of red bunt (leucocytosis) , and some	blood cells, suc	ove diseases as well as some others, such as h as a high red blood cell count nalities. Some changes in red cell shape (such

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 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.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while service contract of each of the start of t aspirin, cortisone, and quinine may decrease it





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	TING DATE	: 22/Sep/2024 12:40PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLIN	ICAL CHEMISTRY/B	IOCHEMISTR	Y	
		GLUCOSE FASTI	IG (F)		
GLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		255.57 <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	H AMERICAN DIABETES ASSOCIAT lucose level below 100 mg/dl is o lucose level between 100 - 125 r ion of 75 gms of glucose) is recon lucose level of above 125 mg/dl ing plasma glucose level in exces	considered normal. ng/dl is considered as gluc nmended for all such patie	ose intolerant or nts. petic state. A repe casions is confirm	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a natory for diabetic state.	



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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	BASIC	
CHOLESTEROL TOTA	L: SERUM	148.5	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		3.4	BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	87.09	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (		42.95	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 -
				60.0
LDL CHOLESTEROL: S	SERLIM	88.13	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0
by CALCULATED, SPE			g, d2	ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		105.55	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0
VLDL CHOLESTEROL:		17.40	ma/dl	VERY HIGH: > OR = 220.0 0.00 - 45.00
by CALCULATED, SPE		17.42	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUI by CALCULATED, SPE		384.09	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	3.46	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by CALCULATED, SPE		2.05	RATIO	LOW RISK: > 11.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.03 <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
	LIVE	ER FUNCTIO	ON TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	1	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.24	mg/dL	0.00 - 0.40
-	(UNCONJUGATED): SERUM	0.76	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	15.9	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	15.3	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE	UM	1.04	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		63.83	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM PHTOMETRY	19.01	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTRO	ERUM	6.59	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		3.5	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		3.09	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPE		1.13	RATIO	1.00 - 2.00

<u>INTERPRETATION</u> 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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	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mrs. SWEETY GOEL			
AGE/ GENDER	: 64 YRS/FEMALE		PATIENT ID	: 1621448
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409220050
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 22/Sep/2024 11:17 AM
BARCODE NO.	: 01517485		COLLECTION DATE	: 22/Sep/2024 11:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 22/Sep/2024 12:40PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

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1 11	E 🖸 🗆	RE	Δ.	ヽ⊢	11.

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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MBBS, MD (PATHOLOGY)

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				am Chopra ID (Pathology) ant Pathologist	
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Test Name		Value	Unit	Biological Reference interval	
	KI	DNEY FUNCTION	TEST (COMPLETE)		
UREA: SERUM		30.18	mg/dL	10.00 - 50.00	
	ATE DEHYDROGENASE (GLDH)				
CREATININE: SERUM		0.95	mg/dL	0.40 - 1.20	
		1/1	ma/dl	7.0.25.0	
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY		14.1	mg/dL	7.0 - 25.0	
BLOOD UREA NITROGEN (BUN)/CREATININE		14.84	RATIO	10.0 - 20.0	
RATIO: SERUM					
by CALCULATED, SPE			21710		
		31.77	RATIO		
by CALCULATED, SPECTROPHOTOMETRY URIC ACID: SERUM		3.55	mg/dL	2.50 - 6.80	
by URICASE - OXIDASE PEROXIDASE		0.00	ing, at	2.00 0.00	
CALCIUM: SERUM		9.34	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPECTROPHOTOMETRY		2.15	na a /all	2.20 4.70	
PHOSPHOROUS: SER	KUIVI DATE, SPECTROPHOTOMETRY	3.15	mg/dL	2.30 - 4.70	
ELECTROLYTES					
SODIUM: SERUM		140.5	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV	/E ELECTRODE)	11010			
POTASSIUM: SERUM		4.16	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIV	/E ELECTRODE)	105 20		00.0 110.0	
CHLORIDE: SERUM by ISE (ION SELECTIV	/F FLECTRODE)	105.38	mmol/L	90.0 - 110.0	
, ,	RULAR FILTERATION RATE				
	RULAR FILTERATION RATE	66.9			
(eGFR): SERUM		00.7			
by CALCULATED					
INTERPRETATION					

**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.



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Test Name		Value	Unit	Biological	Reference interval
<ol> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (</li> <li>Acute tubular necr</li> <li>Low protein diet a</li> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis</li> <li>Inherited hyperam</li> <li>SIADH (syndrome e)</li> <li>Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an ir</li> <li>Cephalosporin the</li> </ol>	nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuses of monemias (urea is virtually absent in of inappropiate antidiuretic harmone) <b>10:1) WITH INCREASED CREATININE:</b> upy (accelerates conversion of creatin eleases muscle creatinine). who develop renal failure. b: usis (acetoacetate causes false increas creased BUN/creatinine ratio). rapy (interferes with creatinine measu	than creatinine) (e.g. obstru but of extracellular fluid). blood). due to tubular secretion of e to creatinine). se in creatinine with certain	urea. methodolog		I ratio when dehydration
G3a G3b	Mild decrease in GFR Moderate decrease in GFR				
G4	Severe decrease in GFR	15-29			
05		15	1		1

G5

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Kidney failure

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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 \*\*\*





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