



	<b>Dr. Vinay Chopr</b> MD (Pathology & Micr Chairman & Consultar	robiology)	Dr. Yugam MD ( CEO & Consultant	Pathology)
NAME	: Mr. S.S SEEKAND			
AGE/ GENDER	: 70 YRS/MALE	P	PATIENT ID	: 1659413
COLLECTED BY	: SURJESH	R	REG. NO./LAB NO.	: 012411030021
REFERRED BY	:		REGISTRATION DATE	: 03/Nov/2024 10:33 AM
BARCODE NO.	: 01519971		COLLECTION DATE	: 03/Nov/2024 10:34AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB		REPORTING DATE	: 03/Nov/2024 11:17AM
Гest Name		Value	Unit	Biological Reference interval
			LLNESS PANEL: G OD COUNT (CBC)	
ED BLOOD CELL	S (RBCS) COUNT AND INDICES			
IAEMOGLOBIN (H	B)	14	gm/dL	12.0 - 17.0
ED BLOOD CELL (		4.82	Millions/o	cmm 3.50 - 5.00
ACKED CELL VOL	FOCUSING, ELECTRICAL IMPEDENCE UME (PCV) AUTOMATED HEMATOLOGY ANALYZER	44.4	%	40.0 - 54.0
AEAN CORPUSCUL	AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER	92.1	fL	80.0 - 100.0
IEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	28.6	pg	27.0 - 34.0
IEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	31.1 <sup>L</sup>	g/dL	32.0 - 36.0
ED CELL DISTRIB	UTION WIDTH (RDW-CV)	13.9	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	47.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		19.11	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI by calculated		26.15	RATIO	BETA THALASSEMIA TRAIT:< 65.0 IRON DEFICIENCY ANEMIA: > 65.0
ИПІЛЕ ДІ ООР СЕ	LINT LAV DUNT	1000	/cmm	4000 - 11000
TOTAL LEUCOCYT	E COUNT (TLC)	4880		
NUCLEATED RED E		4880 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 Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. S.S SEEKAND AGE/ GENDER : 70 YRS/MALE **PATIENT ID** :1659413 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012411030021 **REFERRED BY REGISTRATION DATE** :03/Nov/2024 10:33 AM : **BARCODE NO.** :01519971 **COLLECTION DATE** :03/Nov/2024 10:34AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :03/Nov/2024 11:17AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 59 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 28 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 BASOPHILS % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **IMMATURE GRANULOCTE (IG) %** 0 % 0 - 5.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 2879 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 800 - 4900 1366 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 24440 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 390 ABSOLUTE MONOCYTE COUNT /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0 /cmm 0.0 - 999.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) 114000<sup>L</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.16 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 16<sup>H</sup> MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 66000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 68.2<sup>H</sup> % 11.0 - 45.0

PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE



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







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Test Name		Value	Unit	<b>Biological Reference interval</b>
PLATELET DISTRIE	BUTION WIDTH (PDW)	16.2	%	15.0 - 17.0

PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED

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CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 03/Nov/2024 03:50PM
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,		ATING DATE	. 03/ N0V/ 2024 03.30FM
Test Name				Biological Reference interval
		COSYLATED HAEMOO		
WHOLE BLOOD by hplc (high perform ESTIMATED AVERAG	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	6.6 <sup>H</sup> 142.72 <sup>H</sup>	% mg/dL	4.0 - 6.4 60.00 - 140.00
		ETES ASSOCIATION (ADA):		
RE	FERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		n %
	etic Adults >= 18 years	<5.7		
	Risk (Prediabetes)	5.7 - 6.4		
Dia	gnosing Diabetes		>= 6.5	
			e > 19 Years	
Thorprovite	goolo for glucomia control	Goals of Therapy:	< 7.0	
inerapeutic	goals for glycemic control	Actions Suggested:	>8.0	
			e < 19 Years	
		Goal of therapy:	<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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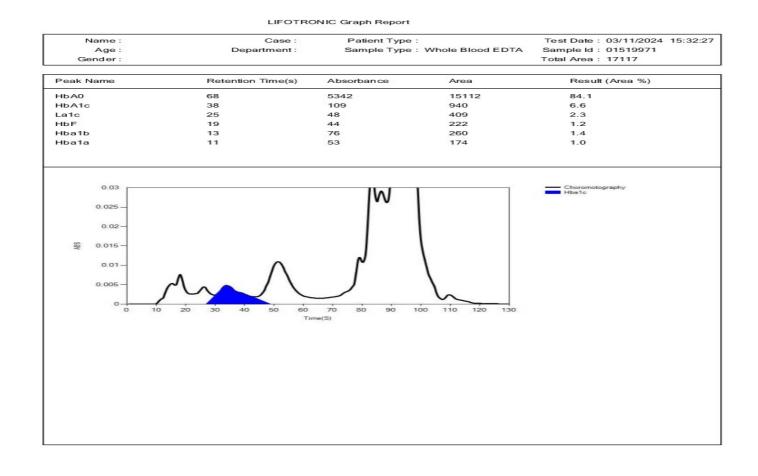
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	ГТ	
Test Name	Value	Unit	Biological Reference interval







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LIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 03/Nov/2024 11:32AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
VIERPRETATION: . ESR is a non-specif nmune disease, but . An ESR can be affe s C-reactive protein . This test may also ystemic lupus eryth ONDITION WITH LO	does not tell the health practitione cted by other conditions besides in be used to monitor disease activity ematosus <b>W ESR</b>	er exactly where th flammation. For th and response to t	e inflammation is in the is reason, the ESR is ty herapy in both of the a	picallý used in conjunctión with other test such above diseases as well as some others, such as
polycythaemia), sigr s sickle cells in sickl OTE: ESR and C - reactiv Generally, ESR doe CRP is not affected If the ESR is elevat Women tend to ha Drugs such as dext	e cell anaemia) also lower the ESR e protein (C-RP) are both markers c ss not change as rapidly as does CRI <b>by as many other factors as is ESR</b> , ed, it is typically a result of two typ ve a higher ESR, and menstruation	nt (leucocytosis), a pf inflammation. P, either at the stai <b>making it a better</b> ves of proteins, glol and pregnancy can	and some protein abno rt of inflammation or a <b>marker of inflammation</b> oulins or fibrinogen. cause temporary eleva	ormalities. Šome changes in red cell shape (sucl s it resolves. <b>n</b> .





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Page 6 of 14





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	:03/Nov/2024 11:26AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINI	CAL CHEMISTR GLUCOSE FA	RY/BIOCHEMIST ASTING (F)	TRY
GLUCOSE FASTING by GLUCOSE OXIDAS	e (F): PLASMA e - peroxidase (god-pod)	101.88 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

**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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	:03/Nov/2024 11:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFII	F · BASIC	
CHOLESTEROL TO	CAL CEDIM	130.91		OPTIMAL: < 200.0
by CHOLESTEROL OX		130.91	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM HATE OXIDASE (ENZYMATIC)	75.09	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO	L (DIRECT): SERUM	46.51	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		69.38	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 CHOLEST by CALCULATED, SPE		84.4	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER( by CALCULATED, SPE		15.02	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE		336.91 <sup>L</sup>	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE		2.81	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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE		1.49	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	1.61 <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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
			N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.67	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.17	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.5	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	12.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	11.1	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	1.12	RATIO	0.00 - 46.00
ALKALINE PHOSPI by Para Nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	65.37	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	15.5	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.18	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.27	gm/dL	3.50 - 5.50
GLOBULIN: SERUN		2.91	gm/dL	2.30 - 3.50
A : G RATIO: SERU		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)	Dr. Yugam MD ( CEO & Consultant F	Pathology)
NAME	: Mr. S.S SEEKAND			
AGE/ GENDER	: 70 YRS/MALE	F	PATIENT ID	: 1659413
COLLECTED BY	: SURJESH	F	REG. NO./LAB NO.	: 012411030021
<b>REFERRED BY</b>	:	F	REGISTRATION DATE	: 03/Nov/2024 10:33 AM
BARCODE NO.	: 01519971	(	COLLECTION DATE	:03/Nov/2024 10:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	F	REPORTING DATE	: 03/Nov/2024 12:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNI	EY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		38.85	mg/dL	10.00 - 50.00
CREATININE: SERU	IATE DEHYDROGENASE (GLDH)	1.33	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC	TROPHOTOMETERY			0.10 1.10
BLOOD UREA NITE by CALCULATED, SPE	ROGEN (BUN): SERUM	18.15	mg/dL	7.0 - 25.0
-	ROGEN (BUN)/CREATININE	13.65	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE UREA/CREATININ		29.21	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS		6.01	mg/dL	3.60 - 7.70
CALCIUM: SERUM		9.68	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SE		3.24	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE	DATE, SPECTROPHOTOMETRY	5.24	IIIg/ UL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM by ISE (ION SELECTIV		135.9	mmol/L	135.0 - 150.0
POTASSIUM: SERU		4.12	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	(E ELECTRODE)		1 /7	
CHLORIDE: SERUN by ISE (ION SELECTIV		101.93	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	57.5		
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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	١	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist		
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LIENT ADDRESS		IOLSON ROAD, AMBA		NU DATE	. 03/100/2024 12.341 11	
Fest Name			Value	Unit	Biological Reference	ce interval
<ol> <li>Acute tubular necr</li> </ol>	10:1) WITH DECRE	n renal disease. <b>ASED BUN :</b>		ostructive uropa	athy).	
Acute tubular necr Low protein diet al Severe liver diseas Cother causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in CED STAGE CKD STAGE G1	10:1) WITH DECRE rosis. nd starvation. e. ecreased urea syn (urea rather than monemias (urea of inappropiate al 10:1) WITH INCRE apy (accelerates c releases muscle c who develop ren D: osis (acetoacetate rapy (interferes w ULAR FILTERATION Norr	ASED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine reatinine). al failure. causes false increase atinine ratio). ith creatinine measure IRATE: DESCRIPTION nal kidney function	t of extracellular fluid lood). ue to tubular secretic to creatinine). in creatinine with ce ement). GFR (mL/min/1.7 >90	d). n of urea. tain methodolo <u>3m2 ) AS</u>	ogies,resulting in normal ratio who SOCIATED FINDINGS No proteinuria	en dehydraf
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Acute tubular necr     Low protein diet al     Severe liver diseas     Other causes of de     Repeated dialysis     Inherited hyperam     SIADH (syndrome of     Pregnancy.     DECREASED RATIO (<         Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIC     Diabetic ketoacido     hould produce an in     CEphalosporin the     STIMATED GLOMERI     G1     G2     G3a     G3a     G3b	10:1) WITH DECRE rosis. nd starvation. e. ecreased urea syn (urea rather than monemias (urea of inappropiate al 10:1) WITH INCRE apy (accelerates c releases muscle c who develop ren D: osis (acetoacetate noreased BUN/cre rapy (interferes w ULAR FILTERATION ULAR FILTERATION Norr Norr Kic no Mil	ASED BUN : thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) d ASED CREATININE: onversion of creatine is reatinine). al failure. causes false increase atinine ratio). vith creatinine measured IRATE: DESCRIPTION mal kidney function Iney damage with rmal or high GFR d decrease in GFR rate decrease in GFR	t of extracellular fluid lood). ue to tubular secretic to creatinine). in creatinine with cer ement). GFR (mL/min/1.7 >90 >90 (00-89 30-59	d). n of urea. tain methodolo <u>3m2 ) AS</u>	ogies,resulting in normal ratio who SOCIATED FINDINGS No proteinuria resence of Protein ,	en dehydrat
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	Dr. Vinay Chopra MD (Pathology & Microbiol Chairman & Consultant Patl	0, /	(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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