



	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. SATISH MITTAL			
AGE/ GENDER	: 61 YRS/MALE	PAT	TIENT ID	: 1697348
COLLECTED BY	: SURJESH	REG	G. NO./LAB NO.	: 012412120028
<b>REFERRED BY</b>	:	REG	<b>GISTRATION DATE</b>	: 12/Dec/2024 01:51 PM
BARCODE NO.	: 01522356	COI	LECTION DATE	: 12/Dec/2024 02:00PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REF	<b>PORTING DATE</b>	: 12/Dec/2024 02:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED 1) Loss of blood (trau 2) Nutritional deficie	ngs. /el is referred to as ANEMIA or Ic H <b>AEMOGLOBIN):</b> Imatic injury, surgery, bleeding, ncy (iron, vitamin B12, folate)	ow red blood count. colon cancer or stoma		odys tissues and returns carbon dioxide from the
<ul><li>4) Suppression by red</li><li>5) Kidney failure</li><li>6) Abnormal hemogle</li><li>POLYCYTHEMIA (INCE</li></ul>	blems (replacement of bone marr d blood cell synthesis by chemot obin structure (sickle cell anemi REASED HAEMOGLOBIN):	therapy drugs		
<ol> <li>2) Smoking (Seconda</li> <li>3) Dehydration prodution</li> <li>4) Advanced lung dise</li> <li>5) Certain tumors</li> </ol>	uces a falsely rise in hemoglobin ease (for example, emphysema)		noconcentration	
7) Abuse of the drug	one marrow known as polycythe erythropoetin (Epogen) by athle e production of red blood cells)	tes for blood doping pu	urposes (increasing the	e amount of oxygen available to the body by
NOTE: TEST CONDUC	TED ON EDTA WHOLE BLOOD			
RECHECKED.				

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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	<b>Dr. Vinay Cho</b> MD (Pathology & N Chairman & Consu	1icrobiology)	Dr. Yugam C MD (Pat CEO & Consultant Patl	hology)
NAME	: Mr. SATISH MITTAL			
AGE/ GENDER	: 61 YRS/MALE	PATIE	NT ID :	1697348
COLLECTED BY	: SURJESH	REG. N	IO./LAB NO. :	012412120028
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BARCODE NO.	:01522356	COLLE	<b>CTION DATE</b> :	12/Dec/2024 02:00PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE :	12/Dec/2024 06:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, Al	MBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINICA	AL CHEMISTRY/	BIOCHEMISTRY	r
	KIDNI	EY FUNCTION TES	ST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	247.3 <sup>H</sup>	mg/dL	10.00 - 50.00
CREATININE: SERU	UM	10.92 <sup>H</sup>	mg/dL	0.40 - 1.40
BLOOD UREA NITR by CALCULATED, SPE	COGEN (BUN): SERUM	115.56 <sup>H</sup>	mg/dL	7.0 - 25.0
BLOOD UREA NITE	ROGEN (BUN)/CREATININE	10.58	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ by CALCULATED, SPE		22.65	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		7.55	mg/dL	3.60 - 7.70
CALCIUM: SERUM		7.57 <sup>L</sup>	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE		5.47 <sup>H</sup>	mg/dL	2.30 - 4.70
ELECTROLYTES	ATE, SI ECINOI HOTOMETRI			
SODIUM: SERUM by ISE (ION SELECTIV		143.2	mmol/L	135.0 - 150.0
POTASSIUM: SERU	M	6.91 <sup>H</sup>	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM	1	107.4	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV FSTIMATED CLOM	'E ELECTRODE) <b>1ERULAR FILTERATION RATE</b>			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	4.9		
<u>INTERPRETATION:</u> To differentiate betw	een pre- and post renal azotemia.			

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD			. 12/ Dec/ 2021 00.1	11 111
Test Name		Value	Unit	Biological	Reference interval
<ol> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>Diabetic ketoacido should produce an in</li> <li>Cephalosporin ther</li> </ol>	nd starvation. e. creased urea synthesis. urea rather than creatinine diff monemias (urea is virtually abs of inappropiate antidiuretic harr <b>10:1) WITH INCREASED CREATINI</b> py (accelerates conversion of co eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine <b>JLAR FILT<u>ERATION RATE</u>:</b>	fuses out of extracellu ent in blood). mone) due to tubular <b>NE:</b> reatine to creatinine). ncrease in creatinine measurement).	ular fluid). secretion of urea. with certain metho	odologies,resulting in norma	I ratio when dehydration
CKD STAGE	DESCRIPTION		min/1.73m2)	ASSOCIATED FINDINGS	
G1 G2	Normal kidney fun Kidney damage w		>90 >90	No proteinuria Presence of Protein ,	
62	normal or high G		~ 10	Albumin or cast in urine	

G2	Kidney damage with	>90	Presence of Protein ,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	
		10 27	



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Test Name		Value Unit	Biological Reference interva

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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