



	MD (Pathology &	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		<b>Dr. Yugam Chopra</b> MD (Pathology) CEO & Consultant Pathologist			
NAME	: Mr. GURDEEP SINGH						
AGE/ GENDER	: 72 YRS/MALE	P	ATIENT ID	: 1577903			
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012408120005			
REFERRED BY	:	R	EGISTRATION DATE	: 12/Aug/2024 07:45 AM			
BARCODE NO.	:01514911	C	<b>OLLECTION DATE</b>	: 12/Aug/2024 07:46AM			
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 12/Aug/2024 12:05PM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interva			
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)		122.97 <sup>H</sup>	mg/dL	10.00 - 50.00			
	КШ	ONEY FUNCTION	TEST (COMPLETE)				
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)				0.40 - 1.40			
CREATININE: SERUM by enzymatic, spectrophotometery		3.52 <sup>H</sup>	mg/dL	0.40 - 1.40			
BLOOD UREA NITROGEN (BUN): SERUM		57.46 <sup>H</sup>	mg/dL	7.0 - 25.0			
by CALCULATED, SPECTROPHOTOMETRY BLOOD UREA NITROGEN (BUN)/CREATININE		16.32	RATIO	10.0 - 20.0			
ratio: serum		/					
by CALCULATED, SPE		04.00	DATIO				
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY		34.93	RATIO				
URIC ACID: SERUM		7.63	mg/dL	3.60 - 7.70			
by URICASE - OXIDASE PEROXIDASE		0.05					
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY		9.85	mg/dL	8.50 - 10.60			
ELECTROLYTES							
SODIUM: SERUM		140.3	mmol/L	135.0 - 150.0			
by ISE (ION SELECTIVE ELECTRODE)							
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)		3.73	mmol/L	3.50 - 5.00			
CHLORIDE: SERUM		105.23	mmol/L	90.0 - 110.0			
by ISE (ION SELECTIV							
	RULAR FILTERATION RATE						
ESTIMATED GLOME (eGFR): SERUM by calculated	RULAR FILTERATION RATE	17.7					

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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	:	Biological Refe	erence interval	
<ol> <li>7. Urine reabsorption</li> <li>8. Reduced muscle m</li> <li>9. Certain drugs (e.g.</li> <li>INCREASED RATIO (&gt;2</li> <li>1. Postrenal azotemia</li> <li>2. Prerenal azotemia</li> </ol>	superimposed on rena	nine production) icoids) <b>REATININE LEVELS:</b> ionately more than creati Il disease.	nine) (e.g. obstructive	uropathy).			
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther	(e.g. ureter colostomy ass (subnormal creatin tetracycline, glucocor 0:1) WITH ELEVATED C (BUN rises disproport superimposed on rena 0:1) WITH DECREASED osis. Id starvation. 2: creased urea synthesis urea rather than creat monemias (urea is virt f inappropiate antidiu 0:1) WITH INCREASED py (accelerates conver eleases muscle creatin who develop renal fail creased BUN/creatinin apy (interferes with cr ILAR FILTERATION RATI DESC Normal ki	hine production) icoids) <b>REATININE LEVELS:</b> ionately more than creation id disease. <b>BUN :</b> inine diffuses out of extrant ually absent in blood). retic harmone) due to tube <b>CREATININE:</b> sion of creatine to creation ine). ure. es false increase in creation the ratio). eatinine measurement). Exercise for the former of th	acellular fluid). bular secretion of urea. hine).	nodologies,resultir ASSOCIATED FII No protein Presence of Pr	NDINGS uria rotein ,	tio when dehydra	
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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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