



Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam MD (CEO & Consultant	Pathology)
NAME : Mr. SARWAN KUMAR			
AGE/ GENDER : 77 YRS/MALE	PAT	TIENT ID	: 1825134
COLLECTED BY :	REC	. NO./LAB NO.	: 012504100024
REFERRED BY :	REC	SISTRATION DATE	: 10/Apr/2025 09:09 AM
BARCODE NO. : 01528721	COI	LECTION DATE	: 10/Apr/2025 09:11AM
CLIENT CODE. : KOS DIAGNOSTIC LAB	REF	PORTING DATE	: 10/Apr/2025 12:27PM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval
CLINIC	AL CHEMISTR	Y/BIOCHEMIS	TRY
KIDN	EY FUNCTION 7	TEST (COMPLETE	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	36.14	mg/dL	10.00 - 50.00
CREATININE: SERUM	0.87	mg/dL	0.40 - 1.40
by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	16.89	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE	19.41	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY			
UREA/CREATININE RATIO: SERUM	41.54	RATIO	
by CALCULATED, SPECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	6.6	mg/dL	3.60 - 7.70
CALCIUM: SERUM	8.85	mg/dL	8.50 - 10.60
by ARSENAZO III, SPECTROPHOTOMETRY	2.0	Ib/s an	2 20 4 70
PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY	2.9	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>			
SODIUM: SERUM	140.1	mmol/L	135.0 - 150.0
by ISE (ION SELECTIVE ELECTRODE) POTASSIUM: SERUM	4.36	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELECTRODE)	4.50	IIIIIO/L	5.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)	105.07	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RA	ATE		
ESTIMATED GLOMERULAR FILTERATION RA' (eGFR): SERUM	TE 88.9		
by CALCULATED			
INTERPRETATION: To differentiate between 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



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CLIENT ADDRESS		CHOLSON ROAD, AMB				npi, 2020 12.	<i>w</i> + 1 111	
Test Name			Value	Un	it	Biologic	al Referenc	e interval
9. Certain drugs (e.g.		creatinine production						
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet and 3. Severe liver diseas 4. Other causes of dec 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera ESTIMATED GLOMERI CKD STAGE	20:1) WITH ELEV a (BUN rises disp superimposed 10:1) WITH DECF osis. and starvation. e. creased urea sy (urea rather that monemias (ure of inappropiate 10:1) WITH INCR upy (accelerates eleases muscle who develop re sis (acetoaceta creased BUN/cr rapy (interferes JLAR FILTERATIC	ATED CREATININE LEVE proportionately more to on renal disease. REASED BUN : In creatinine diffuses of a is virtually absent in antidiuretic harmone) REASED CREATININE: conversion of creatine creatinine). enal failure. te causes false increas reatinine ratio). with creatinine measu DN RATE: DESCRIPTION	ELS: than creatini but of extraction blood). due to tubul e to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea ne). ne with certain met	n. hodologies,res ASSOCIATE	D FINDINGS	nal ratio whe	n dehydrat
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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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