



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)		Pathology)
NAME	: Mr. MANOJ JAIN			
AGE/ GENDER	: 56 YRS/MALE		PATIENT ID	: 1604956
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409070014
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBA	,	REGISTRATION DATE	: 07/Sep/2024 08:46 AM
BARCODE NO.	: 01516467		COLLECTION DATE	: 07/Sep/2024 08:48AM
CLIENT CODE. CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMH		REPORTING DATE	: 07/Sep/2024 09:17AM
CLIENT ADDRESS	. 0549/1, NICHOLSON ROAD, AMI	DALA CANT I		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.0	
	COM	MPLETE BLC	DOD COUNT (CBC)	
RED BLOOD CELLS (RI	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		12.5	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC		4.24	Millions/cr	nm 3.50 - 5.00
by HYDRO DYNAMIC FC PACKED CELL VOLUM	CUSING, ELECTRICAL IMPEDENCE	م ما	%	40.0 - 54.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	38.9 <sup>L</sup>		
MEAN CORPUSCULAR	VOLUME (MCV)	91.9	fL	80.0 - 100.0
MEAN CORPUSCULAR	R HAEMOGLOBIN (MCH)	29.6	pg	27.0 - 34.0
	HEMOGLOBIN CONC. (MCHC)	32.2	g/dL	32.0 - 36.0
by CALCULATED BY AU	ITOMATED HEMATOLOGY ANALYZER		, i i i i i i i i i i i i i i i i i i i	
	ON WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	25.4 <sup>H</sup>	%	11.00 - 16.00
	ON WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	85.9 <sup>H</sup>	fL	35.0 - 56.0
MENTZERS INDEX	STOMATED TIEMATOLOGT ANALTZER	21.67	RATIO	BETA THALASSEMIA TRAIT: < 13.0
GREEN & KING INDEX		55.28	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>(WBCS)</u>			
TOTAL LEUCOCYTE CC	OUNT (TLC) by sf cube & microscopy	7770	/cmm	4000 - 11000
NUCLEATED RED BLO	OD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PAR NUCLEATED RED BLO	THEMATOLOGY ANALYZER	NIL	%	< 10 %
by CALCULATED BY AU	ITOMATED HEMATOLOGY ANALYZER		70	
DIFFERENTIAL LEUCO	<u>CYTE COUNT (DLC)</u>			
NEUTROPHILS		65	%	50 - 70



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	Biological Reference interval
LYMPHOCYTES		22	%	20 - 40
-	Y BY SF CUBE & MICROSCOPY	_	04	
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	5	%	1 - 6
MONOCYTES		8	%	2 - 12
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
BASOPHILS		0	%	0 - 1
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			
		5051	1	2000 7500
ABSOLUTE NEUTRO	PHIL COUNT Y BY SF CUBE & MICROSCOPY	5051	/cmm	2000 - 7500
ABSOLUTE LYMPHO		1709	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINOP		388	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	(22	lamm	00,000
ABSOLUTE MONOCY	Y BY SF CUBE & MICROSCOPY	622	/cmm	80 - 880
ABSOLUTE BASOPHI		0	/cmm	0 - 110
	Y BY SF CUBE & MICROSCOPY			
PLATELETS AND OTI	HER PLATELET PREDICTIVE MARKE	ERS.		
PLATELET COUNT (P		200000	/cmm	150000 - 450000
	FOCUSING, ELECTRICAL IMPEDENCE	0.00	0/	0.10 0.24
PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.22	%	0.10 - 0.36
MEAN PLATELET VO		11	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CEI		68000	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE	24	0/	11.0 45.0
PLATELET LARGE CE	LL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	34	%	11.0 - 45.0
PLATELET DISTRIBU		16.3	%	15.0 - 17.0
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	JCTED ON EDTA WHOLE BLOOD			



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chop</b> MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD ( EO & Consultant I	Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. MANOJ JAIN</b> : 56 YRS/MALE : SURJESH : CENTRAL PHOENIX CLUB (AMB : 01516467 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM	BALA CANTT) REGISTI Collect Report	Γ ID ./LAB NO. RATION DATE FION DATE ING DATE	: 1604956 <b>: 012409070014</b> : 07/Sep/2024 08:46 AM : 07/Sep/2024 08:48AM : 07/Sep/2024 09:31AM
Test Name		Value	Unit	Biological Reference interval
	FRYTHR	OCYTE SEDIMENTA	ION RATE (ESR	0
INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOV A low ESR can be see (polycythaemia), sigras sickle cells in sickl NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	does not tell the health practitioner cted by other conditions besides inf be used to monitor disease activity ematosus <b>WESR</b> n with conditions that inhibit the non ificantly high white blood cell coun e cell anaemia) also lower the ESR. e protein (C-RP) are both markers of es not change as rapidly as does CRP by as many other factors as is ESR, i ed, it is typically a result of two type ye a biober ESR, and menstruation a	r exactly where the infla flammation. For this rea and response to therap ormal sedimentation of it (leucocytosis), and so f inflammation. P, either at the start of in making it a better marke es of proteins, globulins and pregnancy can cause	Immation is in the son, the ESR is typ y in both of the ab red blood cells, su- me protein abnorn of filammation or as or fibrinogen.	icallý used in conjunctión with other test such ove diseases as well as some others, such as ch as a high red blood cell count malities. Some changes in red cell shape (such it resolves.





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Test Name	V	/alue	Unit	Biological Reference interval
	CLINICAL C	CHEMISTRY	/BIOCHEMISTR	Y
	G	SLUCOSE FAS	STING (F)	
GLUCOSE FASTING (F): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)		101.52 <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	on of 75 ams of alucose) is recommende	red normal. considered as	atients.	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a atory for diabetic state.





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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TOTA	AL: SERUM	110.79	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O				BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SEI by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	169.93 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL ( by SELECTIVE INHIBIT		34.83	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: 5 by CALCULATED, SPE		41.97	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 CHOLESTE by calculated, spe		75.96	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 CHOLESTEROL by CALCULATED, SPE		33.99	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU		391.51	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM ectrophotometry	3.18	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: SEF by CALCULATED, SPE		1.2	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
TRIGLYCERIDES/HDL by CALCULATED, SPE		4.88	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 recommended.

3. 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. 4. 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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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. MANOJ JAIN AGE/ GENDER : 56 YRS/MALE **PATIENT ID** :1604956 :012409070014 **COLLECTED BY** : SURJESH REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** :07/Sep/2024 08:46 AM **BARCODE NO.** :01516467 **COLLECTION DATE** :07/Sep/2024 08:48AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Sep/2024 10:38AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit

LIVE	<b>ER FUNCTION TES</b>	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	2.11 <sup>H</sup>	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.42 <sup>H</sup>	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	1.69 <sup>H</sup>	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	16.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	15.3	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.07	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	156.73 <sup>H</sup>	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	19.75	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by biuret, spectrophotometry	6.41	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	4.37	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	2.04 <sup>L</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by Calculated, spectrophotometry	2.14 <sup>H</sup>	RATIO	1.00 - 2.00

**INTERPRETATION** 

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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)
<u></u>	



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**Biological Reference interval** 

NAME





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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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	К		ON TEST (COMPLETE)	
UREA: SERUM		18.6	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	NATE DEHYDROGENASE (GLDH)		°,	
CREATININE: SERUN by ENZYMATIC, SPEC		0.89	mg/dL	0.40 - 1.40
•	GEN (BUN): SERUM	8.69	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY	0.07	ing, at	1.0 20.0
BLOOD UREA NITROGEN (BUN)/CREATININE		9.76 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
UREA/CREATININE		20.9	RATIO	
	ECTROPHOTOMETRY			
URIC ACID: SERUM		4.6	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.42	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	7.42	ing/uL	8.50 - 10.00
PHOSPHOROUS: SEF		3.39	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY			
<u>ELECTROLYTES</u>				
SODIUM: SERUM		140.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		4.24	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		7.27	THINO!/ L	0.00 0.00
CHLORIDE: SERUM		105.15	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV				
	RULAR FILTERATION RATE	400.4		
	RULAR FILTERATION RATE	100.6		
(eGFR): SERUM by CALCULATED				

## **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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Test Name		Value	Unit	Biological	Reference interval
7. Urine reabsorption 3. Reduced muscle m 9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 1. Postrenal azotemia 2. Prerenal azotemia <b>DECREASED RATIO (</b> <	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine pro tetracycline, glucocorticoids) (0:1) WITH ELEVATED CREATINI (BUN rises disproportionately superimposed on renal diseas (0:1) WITH DECREASED BUN :	duction) I <b>NE LEVELS:</b> y more than creatinin		oxicosis, Cushing's syndrom ropathy).	ne, high protein diet,
<ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (</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>SIADH (syndrome of Pregnancy.</li> <li>DECREASED RATIO (</li> <li>Pregnancy.</li> <li>PCEREASED RATIO (</li> <li>Rhebdomyolysis (r</li> <li>Muscular patients</li> </ol>	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine pro tetracycline, glucocorticoids) <b>(0:1) WITH ELEVATED CREATINI</b> a (BUN rises disproportionately superimposed on renal diseas <b>(0:1) WITH DECREASED BUN :</b> osis. nd starvation. e. creased urea synthesis. furea rather than creatinine di monemias (urea is virtually at of inappropiate antidiuretic ha <b>(0:1) WITH INCREASED CREATIN</b> py (accelerates conversion of eleases muscle creatinine). who develop renal failure.	nduction) INE LEVELS: y more than creatinin se. iffuses out of extrace osent in blood). rmone) due to tubula NINE:	e) (e.g. obstructive u llular fluid). r secretion of urea.		ne, high protein diet,
Y. Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     DECREASED RATIO (<     Acute tubular necr     Low protein diet ar     Severe liver diseas     Other causes of de     Severe liver diseas     Other causes of de     SIADH (syndrome of     SIADH (syndrome of     Pregnancy.     DECREASED RATIO (<     Rebeated dialysis (     Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine pro tetracycline, glucocorticoids) <b>10:1) WITH ELEVATED CREATINI</b> a (BUN rises disproportionately superimposed on renal diseas <b>10:1) WITH DECREASED BUN :</b> osis. nd starvation. e. creased urea synthesis. furea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic ha <b>10:1) WITH INCREASED CREATIN</b> py (accelerates conversion of eleases muscle creatinine). who develop renal failure.	nduction) INE LEVELS: y more than creatinin se. iffuses out of extrace osent in blood). rmone) due to tubula VINE: creatine to creatinine	e) (e.g. obstructive u llular fluid). r secretion of urea. e).	ropathy).	
Y. Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Postrenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet ar     Severe liver diseas     Other causes of de     Repeated dialysis     Inherited hyperam     SIADH (syndrome of     Pregnancy.     Pregnancy.     Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine pro tetracycline, glucocorticoids) <b>10:1) WITH ELEVATED CREATINI</b> a (BUN rises disproportionately superimposed on renal diseas <b>10:1) WITH DECREASED BUN :</b> osis. nd starvation. e. creased urea synthesis. furea rather than creatinine di monemias (urea is virtually ak of inappropiate antidiuretic ha <b>10:1) WITH INCREASED CREATIN</b> py (accelerates conversion of eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false creased BUN/creatinine ratio)	induction) INE LEVELS: y more than creatinin se. iffuses out of extrace osent in blood). rmone) due to tubula VINE: creatine to creatinine increase in creatinine	e) (e.g. obstructive u llular fluid). r secretion of urea. e).	ropathy).	
Urine reabsorption     Reduced muscle m     Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet ar     Severe liver diseas     Other 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     Cephalosporin thera	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine pro tetracycline, glucocorticoids) <b>10:1) WITH ELEVATED CREATINI</b> a (BUN rises disproportionately superimposed on renal diseas <b>10:1) WITH DECREASED BUN :</b> osis. nd starvation. e. creased urea synthesis. furea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic ha <b>10:1) WITH INCREASED CREATIN</b> py (accelerates conversion of eleases muscle creatinine). who develop renal failure. <b>:</b> sis (acetoacetate causes false	induction) INE LEVELS: y more than creatinin se. iffuses out of extrace osent in blood). rmone) due to tubula VINE: creatine to creatinine increase in creatinine	e) (e.g. obstructive u llular fluid). r secretion of urea. e).	ropathy).	

CKD STAGE	DESCRIPTION	GFR ( mL/min/1.73m2 )	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , 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	



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









	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
NAME	: Mr. MANOJ JAIN				
AGE/ GENDER	: 56 YRS/MALE	PATIENT ID	: 1604956		
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012409070014		
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	) REGISTRATION DATE	: 07/Sep/2024 08:46 AM		
BARCODE NO.	: 01516467	<b>COLLECTION DATE</b>	:07/Sep/202408:48AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	:07/Sep/2024 10:38AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т			
Test Name	Value	Unit	Biological Reference interval		

COMMENTS: 1. 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. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012 3. 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 eGFR with Creatine CFP.

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



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NAME	: Mr. MANOJJAIN	nsultant Pathologis	st CEO & Consultant	
AGE/ GENDER	: 56 YRS/MALE		PATIENT ID	: 1604956
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BARCODE NO.	:01516467		COLLECTION DATE	: 07/Sep/2024 08:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 07/Sep/2024 01:21PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	ſ	
Test Name		Value	Unit	Biological Reference interval
		тимо	JR MARKER	
	CA		ONIC ANTIGEN (CEA)	
	IC ANTIGEN (CEA): SERUM ESCENCE IMMUNOASSAY)	3.21	ng/mL	< 5.0
1. Carcinoembryonic 2. Increased levels m breast, gastrointesti	nal tract, liver, lung, ovarian, pai of CEA should begin prior to initi	mary colorectal on ncreatic, and pro ation of cancer the the second s	cancer or other malignancie static cancers. herapy to verify post therap	thelium. es including medullary thyroid carcinoma and by decrease in concentration and to establish a ns after removal of cancerous tissue.

2. May be useful in assessing the effectiveness of chemotherapy or radiation treatment. NOTE:

KOS Diagnostic Lab (A Unit of KOS Healthcare)

Carcinoembryonic antigen levels should not be used for screening of the general population for undetected cancers.
 Grossly elevated carcino-embryonic antigen (CEA) concentrations (>20 ng/mL) in a patient with compatible symptoms are strongly suggestive of the presence of cancer and also suggest metastasis.
 Most healthy subjects (97%) have values < or = 3.0 ng/mL.</li>
 After removal of a colorectal tumor, the serum CEA concentration should return to normal by 6 weeks, unless there is residual tumor.
 Intervalues over time in a patient with a bistory of cancer suggest tumor recurrence.

5. Increases in test values over time in a patient with a history of cancer suggest tumor recurrence.



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Page 12 of 14







	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
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BARCODE NO.	:01516467		<b>COLLECTION DATE</b>	: 07/Sep/2024 08:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 07/Sep/2024 09:59AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL	PATHOLOGY	
				ΠΟΝ
PHYSICAL EXAMINAT				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
COLOUR	TANCE SPECTROPHOTOMETRY	AMBER Y	ELLOW	PALE YELLOW
TRANSPARANCY	TANCE SPECIROPHOTOMETRY	CLEAR		CLEAR
	TANCE SPECTROPHOTOMETRY	1.01		
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	Newstern		
PROTEIN by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	6.5		5.0 - 7.5
1	TANCE SPECTROPHOTOMETRY	0.5		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	Ŭ		
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY			
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE	(-ve)	NEGATIVE (-ve)
by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY			

MICROSCOPIC EXAMINATION



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<b>REFERRED BY</b>			REGISTRATION DATE	
BARCODE NO.			<b>COLLECTION DATE</b>	
CLIENT CODE.			REPORTING DATE	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE	(-ve) /HPF	0 - 3
		0.4	(LIDE	0.5

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
PUS CELLS	2-4	/HPF	0 - 5	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
EPITHELIAL CELLS	1-2	/HPF	ABSENT	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
CASTS	NEGATIVE (-ve)		NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
OTHERS	NEGATIVE (-ve)		NEGATIVE (-ve)	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT				

\*\*\* End Of Report \*\*\*





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