



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	ME	n Chopra D (Pathology) ht Pathologist	
IAME	: Mr. SATPAL VERMA				
AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1667852	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012411110016	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBAI	LA CANTT)	REGISTRATION DATE	: 11/Nov/2024 09:02 AM	
BARCODE NO.	: 01520544		COLLECTION DATE	: 11/Nov/2024 09:29AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Nov/2024 09:41AM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTI			
Fest Name		Value	Unit	Biological Reference	e interval
			LLNESS PANEL: 1.	.0	
		LETE BL	OOD COUNT (CBC)		
	(RBCS) COUNT AND INDICES	14.0		10.0 17.0	
IAEMOGLOBIN (HI by CALORIMETRIC	3)	14.3	gm/dL	12.0 - 17.0	
RED BLOOD CELL (I	RBC) COUNT	4.83	Millions	s/cmm 3.50 - 5.00	
ACKED CELL VOLU	IME (PCV)	43.8	%	40.0 - 54.0	
by CALCULATED BY A MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER	90.8	fL	80.0 - 100.0	
by CALCULATED BY A	JTOMATED HEMATOLOGY ANALYZER				
	AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	29.6	pg	27.0 - 34.0	
	AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER	32.6	g/dL	32.0 - 36.0	
RED CELL DISTRIBU	JTION WIDTH (RDW-CV)	14	%	11.00 - 16.00	
	JTOMATED HEMATOLOGY ANALYZER JTION WIDTH (RDW-SD)	47.6	fL	35.0 - 56.0	
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER		DATIO	BETA THALASSEMI	
MENTZERS INDEX		18.8	RATIO	13.0	A IKAII: <
				IRON DEFICIENCY	NEMIA:
GREEN & KING IND	EX	26.31	RATIO	>13.0 BETA THALASSEMI	A TRAIT:<=
by CALCULATED				65.0	
				IRON DEFICIENCY A 65.0	ANEMIA: >
<u>WHITE BLOOD CEI</u>	<u>LS (WBCS)</u>				
FOTAL LEUCOCYTE	COUNT (TLC) By SF CUBE & MICROSCOPY	6350	/cmm	4000 - 11000	
NUCLEATED RED B	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00	
by AUTOMATED 6 PAR	t hematology analyzer LOOD CELLS (nRBCS) %	NIL	%	< 10 %	
MICI FATED RED R					





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. SATPAL VERMA **AGE/ GENDER** : 76 YRS/MALE **PATIENT ID** :1667852 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012411110016 **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** : 11/Nov/2024 09:02 AM **BARCODE NO.** :01520544 **COLLECTION DATE** :11/Nov/2024 09:29AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 11/Nov/2024 09:41AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 56 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 33 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3556 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2096 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 190 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 508 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 155000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.19 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 12^H 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 65000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 42.111.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.6% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

<u>ANNE AND</u>

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





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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO	does not tell the health practition ected by other conditions besides in be used to monitor disease activity ematosus	er exactly wher offammation. Fo y and response normal sedimer	e the inflammation is in the or this reason, the ESR is ty to therapy in both of the a	picallý used in conjunction with other test such bove diseases as well as some others, such as





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIS	TRY/BIOCHEMIST	'RY
		GLUCOSE	E FASTING (F)	
GLUCOSE FASTING	G (F): PLASMA SE - PEROXIDASE (GOD-POD)	133.22 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

 A fasting plasma glucose level below 100 mg/dl is considered normal.
 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.

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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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam (MD (F CEO & Consultant P	Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. SATPAL VERMA : 76 YRS/MALE : SURJESH : CENTRAL PHOENIX CLUB (: 01520544 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAE	REG AMBALA CANTT) REG COL REP	IENT ID . NO./LAB NO. ISTRATION DATE LECTION DATE ORTING DATE	: 1667852 : 012411110016 : 11/Nov/2024 09:02 AM : 11/Nov/2024 09:29AM : 11/Nov/2024 11:15AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFII	F · BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		149.36	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	69.33	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM ON	60.99	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL by CALCULATED, SPE		74.5	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		88.37	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 CHOLESTERC by CALCULATED, SPE	CTROPHOTOMETRY	13.87	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE		368.05	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE		2.45	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 Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	1,1-1	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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Test Name		Value	Unit	Biological Reference interval
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI		1.78 ^H	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.41 ^H	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	CT (UNCONJUGATED): SERUM	1.37 ^H	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	30.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	[/RIDOXAL PHOSPHATE	21.4	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE	ERUM ECTROPHOTOMETRY	1.43	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM yl phosphatase by amino methyl	92.52	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	45.95	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	6.7	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.01	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.69	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.49	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)



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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).

PROGNOSTIC SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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	KIDNI	EY FUNCTIO	ON TEST (COMPLETE))
UREA: SERUM		25.25	mg/dL	10.00 - 50.00
•	AATE DEHYDROGENASE (GLDH)		0	
CREATININE: SER		1.09	mg/dL	0.40 - 1.40
	by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		mg/dL	7.0 - 25.0
by CALCULATED, SPECTROPHOTOMETRY		11.8		
BLOOD UREA NITH RATIO: SERUM	ROGEN (BUN)/CREATININE	10.83	RATIO	10.0 - 20.0
	ECTROPHOTOMETRY			
UREA/CREATININ		23.17	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY I	4.7	mg/dL	3.60 - 7.70
by URICASE - OXIDAS		4.7	ing/uL	5.00 - 7.70
CALCIUM: SERUM		9.52	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SE		2.75	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	2.13	Ilig/ uL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		145.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERU		4.3	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		4.3	IIIII01/ L	5.50 - 5.00
CHLORIDE: SERUM	1	108.9	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV FSTIMATED CI ON	/E ELECTRODE) /IERULAR FILTERATION RATE			
	ERULAR FILTERATION RATE	70.3		
(eGFR): SERUM				
by CALCULATED INTERPRETATION:				
	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.

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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	: 01520544			
BARCODE NO.		COLLECTION DAT		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value Ur	nit Biolog	gical Reference interval
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	ass (subnormal creatinine producti tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LE (BUN rises disproportionately mor superimposed on renal disease.	EVELS:	e uropathy).	
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal 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 ESTIMATED GLOMERU G1	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LE (BUN rises disproportionately mor superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. b. creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increat creased BUN/creatinine ratio). apy (interferes with creatinine meat JLAR FILTERATION RATE: DESCRIPTION Normal kidney function	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). in blood). ne) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain mer asurement). GFR (mL/min/1.73m2) n >90	a. thodologies,resulting in no ASSOCIATED FINDINGS No proteinuria	
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal 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 ESTIMATED GLOMERL OKD STAGE	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LE (BUN rises disproportionately mor superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. 2. creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increat creased BUN/creatinine ratio). apy (interferes with creatinine meat JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). in blood). ne) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain me asurement). GFR (mL/min/1.73m2)	a. thodologies,resulting in no ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	5
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal 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 ESTIMATED GLOMERL CKD STAGE	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LE (BUN rises disproportionately mor superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. b. creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increat creased BUN/creatinine ratio). apy (interferes with creatinine meat JLAR FILTERATION RATE: DESCRIPTION Normal kidney function	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). in blood). ne) due to tubular secretion of ureatine tine to creatinine). ease in creatinine with certain metasurement). GFR (mL/min/1.73m2) n >90 >90	a. thodologies,resulting in no ASSOCIATED FINDINGS No proteinuria	5
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal 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 ESTIMATED GLOMERL G1 G2 G3a G3a	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LE (BUN rises disproportionately mor superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. 2. creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increat creased BUN/creatinine ratio). apy (interferes with creatinine meat JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). in blood). ne) due to tubular secretion of urea tine to creatinine). ease in creatinine with certain mer asurement). <u>GFR (mL/min/1.73m2)</u> n >90 <u>>90</u> <u>60 -89</u> FR <u>30-59</u>	a. thodologies,resulting in no ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	5
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal 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 ESTIMATED GLOMERU G1 G2 G3a	tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LE (BUN rises disproportionately mor superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. ad starvation. a. creased urea synthesis. urea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creat eleases muscle creatinine). who develop renal failure. 1: sis (acetoacetate causes false increat creased BUN/creatinine ratio). apy (interferes with creatinine meat JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFR	EVELS: re than creatinine) (e.g. obstructive es out of extracellular fluid). in blood). ne) due to tubular secretion of ureatine cine to creatinine). ease in creatinine with certain merasurement). 0 60 -89 FR 30-59	a. thodologies,resulting in no ASSOCIATED FINDINGS No proteinuria Presence of Protein ,	5





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

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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. SATPAL VERMA		
AGE/ GENDER	: 76 YRS/MALE	PATIENT ID	: 1667852
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012411110016
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 11/Nov/2024 09:02 AM
BARCODE NO.	: 01520544	COLLECTION DATE	: 11/Nov/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 11/Nov/2024 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
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



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

MBBS, MD (PATHOLOGY)

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	Dr. Vinay Che MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD EO & Consultant	(Pathology)
NAME	: Mr. SATPAL VERMA			
AGE/ GENDER	: 76 YRS/MALE	PATIENT	' ID	: 1667852
COLLECTED BY	: SURJESH	REG. NO.	/LAB NO.	:012411110016
REFERRED BY	: CENTRAL PHOENIX CLUB (AN	MBALA CANTT) REGISTR	ATION DATE	: 11/Nov/2024 09:02 AM
BARCODE NO.	: 01520544		ION DATE	: 11/Nov/2024 09:29AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ING DATE	: 11/Nov/2024 10:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATHO	NOCV	
DIVELOAT EVALUAT		UTINE & MICROSCO	PIC EXAMINA	ATION
PHYSICAL EXAMIN		10		
QUANTITY RECIEVE by DIP STICK/REFLECT	LD FANCE SPECTROPHOTOMETRY	10	ml	
COLOUR		AMBER YELLOW		PALE YELLOW
TRANSPARANCY	ANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
-	ANCE SPECTROPHOTOMETRY	1.01		1000 1000
SPECIFIC GRAVITY by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMIN	NATION			
REACTION	ANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	ANCE SPECIFICITIONETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT SUGAR	ANCE SPECTROPHOTOMETRY			NEGATIVE (-ve)
	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
pH	ANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN	ANCE SI LOTION HOTOMETRI	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT NITRITE	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	ANCE SPECTROPHOTOMETRY.			
UROBILINOGEN	ANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT BLOOD	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY			
ASCORBIC ACID by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EXA				
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3





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







Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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AGE/ GENDER	: 76 YRS/MALE		PATIENT ID	: 1667852	
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Test Name		Value	Unit	Biological Reference interval	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	0 - 5	
EPITHELIAL CELLS	S CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT	
CRASTALS		NECATIN	$(-v_{\Theta})$	NECATIVE (-vo)	

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) CASTS 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 ***



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

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