

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mr. DEEPAK NAGI			
AGE/ GENDER	: 49 YRS/MALE		PATIENT ID	: 1649968
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012410220019
REFERRED BY	:		REGISTRATION DATE	: 22/Oct/2024 09:33 AM
BARCODE NO.	: 01519345		COLLECTION DATE	: 22/Oct/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Oct/2024 10:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	SALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA W	VELLNESS PANEL: G	
			LOOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		12.8	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COUNT		4.88	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUM	DCUSING, ELECTRICAL IMPEDENCE E (PCV)	40.8	%	40.0 - 54.0
	JTOMATED HEMATOLOGY ANALYZER	00 (q	00.0.100.0
MEAN CORPUSCULAR by CALCULATED BY AU	(VOLUIVIE (IVICV) JTOMATED HEMATOLOGY ANALYZER	83.6	fL	80.0 - 100.0
MEAN CORPUSCULAR	R HAEMOGLOBIN (MCH)	26.1 ^L	pg	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	31.2 ^L	g/dL	32.0 - 36.0
	UTOMATED HEMATOLOGY ANALYZER ON WIDTH (RDW-CV)	14.7	%	11.00 - 16.00
	JTOMATED HEMATOLOGY ANALYZER	14.7	70	11.00 - 18.00
	ON WIDTH (RDW-SD)	46	fL	35.0 - 56.0
MENTZERS INDEX	JTOMATED HEMATOLOGY ANALYZER	17.13	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	{	25.06	RATIO	BETA THALASSEMIA TRAIT:<= 65.
WHITE BLOOD CELLS	(WBCS)			IRON DEFICIENCY ANEMIA: > 65.0
TOTAL LEUCOCYTE CO		8540	/cmm	4000 - 11000
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		/ drift	
NUCLEATED RED BLO	OD CELLS (nRBCS) <i>T HEMATOLOGY ANALYZER</i>	NIL		0.00 - 20.00
NUCLEATED RED BLO	OD CELLS (nRBCS) %	NIL	%	< 10 %
-				
		40	0/	EQ. 70
NEUTROPHILS	BY SF CUBE & MICROSCOPY	60	%	50 - 70





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







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. DEEPAK NAGI AGE/ GENDER : 49 YRS/MALE **PATIENT ID** :1649968 **COLLECTED BY** : SURJESH :012410220019 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Oct/2024 09:33 AM : **BARCODE NO.** :01519345 **COLLECTION DATE** : 22/Oct/2024 10:08AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Oct/2024 10:37AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 20 - 40 30 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 6 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 4 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 5124 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 2562 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE EOSINOPHIL COUNT** 40 - 440 512^H /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 342 /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) 152000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.21 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 14^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 82000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 54^H % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % 15.0 - 17.0 PLATELET DISTRIBUTION WIDTH (PDW) 16.8 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 22/Oct/2024 03:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)		6.8 ^H	%	4.0 - 6.4
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO	E PLASMA GLUCOSE	148.46 ^H	mg/dL	60.00 - 140.00
by HPLC (HIGH PERFO STIMATED AVERAG by HPLC (HIGH PERFO	E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)			60.00 - 140.00
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D	IABETES ASSOCI	ATION (ADA):	
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u>	E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	IABETES ASSOCI		
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP	IABETES ASSOCI	ATION (ADA): LYCOSYLATED HEMOGLOGIB	
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	IABETES ASSOCI	ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7	
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	IABETES ASSOCI	ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	(HBAIC) in %
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia A D	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	Goals	ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years 5 of Therapy:	(HBAIC) in %
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NON dia A D	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	Goals	ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years s of Therapy: hs Suggested:	(HBAIC) in %
by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NON dia A D	E PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	Goals	ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years 5 of Therapy:	(HBAIC) in %

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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BARCODE NO.	: 01519345	CO	LLECTION DATE	: 22/Oct/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 22/Oct/2024 10:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIME	NTATION RATE (ESF	(5
	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETR	10 Y	mm/1st h	n 0 - 20
as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LON A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to ha 6. Drugs such as dext	be used to monitor disease activi ematosus W ESR in with conditions that inhibit the ifficantly high white blood cell co e cell anaemia) also lower the ES e protein (C-RP) are both markers is not change as rapidly as does C by as many other factors as is ESI ed, it is typically a result of two ty ve a higher ESR, and menstruatio	ty and response to t normal sedimentati unt (leucocytosis) , a SR. of inflammation. RP, either at the star X, making it a better ypes of proteins, glol n and pregnancy can	herapy in both of the al on of red blood cells, su and some protein abnor the of inflammation or as marker of inflammation pulins or fibrinogen. cause temporary eleva	





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CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F)	e interval	012410220019 22/Oct/2024 09:33 AM 22/Oct/2024 10:08AM	. NO./LAB NO. ISTRATION DATE LECTION DATE ORTING DATE	REG. REG COLI REP(), AMBALA CANTT	: SURJESH : : 01519345 : KOS DIAGNOSTIC LAB	COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE.
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CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference inter CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F)	e interval), AMBALA CANTT		
Test Name Unit Biological Reference inter CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F)	e interval	Biological Reference inter	Unit		: 6349/1, NICHOLSON ROAD	CLIENT ADDRESS
CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F)	e interval	Biological Reference inter	Unit	Valuo		
GLUCOSE FASTING (F)				Value		Test Name
					CLII	
GLUCOSE FASTING (F): PLASMA 110.72 ^H mg/dL NORMAL: < 100.0 by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) PREDIABETIC: 100.0 - 125 DIABETIC: > 0R = 126.0		PREDIABETIC: 100.0 - 125	mg/dL	110.72 ^H		



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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		108.62	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSE	UM PHATE OXIDASE (ENZYMATIC)	222.81 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBITI		37.33	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		26.73	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by calculated, spe		71.29	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		44.56	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	440.05	mg/dL	350.00 - 700.00
by CALCOLATED, SPE CHOLESTEROL/HDL F by CALCULATED, SPE	ratio: serum	2.91	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: SER by calculated, spe		0.72	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		5.97 ^H	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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interval

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Test Name		Value	Unit	Biological Reference
	LIV	ER FUNCTION T	EST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	0.63	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM SPECTROPHOTOMETRY	0.17	mg/dL	0.00 - 0.40
	Г (UNCONJUGATED): SERUM естгорнотометгу	0.46	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	30.1	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT P	(RIDOXAL PHOSPHATE	37.8	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.8	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		77.24	U/L	40.0 - 130.0
GAMMA GLUTAMYI by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	20.59	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	6.81	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.03	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	2.78	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.45	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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





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INTERPRETATION





	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mr. DEEPAK NAGI			
AGE/ GENDER	: 49 YRS/MALE	PATIE	INT ID	: 1649968
COLLECTED BY	: SURJESH	REG. N	IO./LAB NO.	: 012410220019
REFERRED BY	:	REGIS	TRATION DATE	: 22/Oct/2024 09:33 AM
BARCODE NO.	: 01519345	COLLE	ECTION DATE	: 22/Oct/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 22/Oct/2024 11:26AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Incre	eased)

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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Test Name		Value	Unit	Biological Reference interval	
	КІІ	DNEY FUNCTIO	N TEST (COMPLETE)		
UREA: SERUM		19.61	mg/dL	10.00 - 50.00	
	ATE DEHYDROGENASE (GLDH)	17.01	ing, at		
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY		1.22	mg/dL	0.40 - 1.40	
BLOOD UREA NITROGEN (BUN): SERUM		9.16	mg/dL	7.0 - 25.0	
by CALCULATED, SPECTROPHOTOMETRY		7.54	RATIO	10.0 - 20.0	
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM		7.51 ^L	KATIO	10.0 - 20.0	
	ECTROPHOTOMETRY				
UREA/CREATININE F	RATIO: SERUM	16.07	RATIO		
by CALCULATED, SPE	ECTROPHOTOMETRY				
URIC ACID: SERUM		6.35	mg/dL	3.60 - 7.70	
<i>by uricase - oxidas</i> CALCIUM: SERUM	DE PERUXIDASE	9.05	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE	CTROPHOTOMETRY	7.00	iiiy/uL	0.00 - 10.00	
PHOSPHOROUS: SEF		2.76	mg/dL	2.30 - 4.70	
-	DATE, SPECTROPHOTOMETRY		Ŭ		
<u>ELECTROLYTES</u>					
sodium: serum		144.2	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV					
POTASSIUM: SERUM by ISE (ION SELECTIV		4.24	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM	E ELEUIKUDE)	108.15	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIV	/E ELECTRODE)	100.15	mimol/L	20.0 - 110.0	
	RULAR FILTERATION RATE				
	RULAR FILTERATION RATE	72.7			
(eGFR): SERUM		12.1			
by CALCULATED					
INTERPRETATION					

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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		Chopra y & Microbiology) onsultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
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Test Name		Value	Unit	Biological	Reference interval
Test Name		value	Unit	Biological	Reference Interval
 Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet and Severe liver diseas Other causes of decision Repeated dialysis Inherited hyperam SIADH (syndrome of Beregnancy) DECREASED RATIO (< Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin the 	nd starvation. e. creased urea synthesis. (urea rather than creatinine d monemias (urea is virtually at of inappropiate antidiuretic ha 10:1) WITH INCREASED CREATII upy (accelerates conversion of eleases muscle creatinine). who develop renal failure.	iffuses out of extracellula osent in blood). rmone) due to tubular se NINE: creatine to creatinine). increase in creatinine w).	ar fluid). cretion of urea.		I ratio when dehydration
CKD STAGE		N GFR (mL/m	in/1 73m2 \ AS	SOCIATED FINDINGS]
G1	Normal kidney fu			No proteinuria	•
G2	Kidney damage			resence of Protein ,	1
	normal or high	GFR		umin or cast in urine	
G3a	Mild decrease in				
G3b	Moderate decrease				
G4	Severe decrease i		29		
	Kidney fellur	10	la l		

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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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