

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





NAME : Mr. ANIL AGE/ GENDER : 50 YRS/MALE PATIENT ID : 1570209		MD (Pathology & Micı Chairman & Consultar		Dr. Yugam MD (CEO & Consultant F	Pathology)
AGE/ GENDER : 50 YRS/MALE PATIENT ID : 1570209	NAME	: Mr. ANIL			
	AGE/ GENDER	: 50 YRS/MALE	P	ATIENT ID	: 1570209
COLLECTED BY : REG. NO./LAB NO. : 012408040035	COLLECTED BY	:	R	EG. NO./LAB NO.	: 012408040035
REFERRED BY : REGISTRATION DATE : 04/Aug/2024 10:08 AM	REFERRED BY	:	R	EGISTRATION DATE	: 04/Aug/2024 10:08 AM
BARCODE NO. : 01514424 COLLECTION DATE : 04/Aug/2024 10:13AM	BARCODE NO.	:01514424	C	OLLECTION DATE	: 04/Aug/2024 10:13AM
CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 04/Aug/2024 11:12AM	CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	:04/Aug/2024 11:12AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT	CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name Value Unit Biological Reference interval	Test Name		Value	Unit	Biological Reference interval
SWASTHYA WELLNESS PANEL: 1.0		CIV/V C.		NESS DANEL 1 0	
COMPLETE BLOOD COUNT (CBC)			APLETE BLOC	OD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES		BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) 15.8 gm/dL 12.0 - 17.0			15.8	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COUNT 6.01 ^H Millions/cmm 3.50 - 5.00		C) COUNT	6.01 ^H	Millions/ci	mm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV) 50.1 % 40.0 - 54.0				0/	10.0 51.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER			50.1	70	40.0 - 34.0
MEAN CORPUSCULAR VOLUME (MCV) 83.4 fL 80.0 - 100.0			83.4	fL	80.0 - 100.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HAEMOGLOBIN (MCH) 26.3 ^L pg 27.0 - 34.0			26.3 ^L	pq	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	by CALCULATED BY AU	UTOMATED HEMATOLOGY ANALYZER			22.0.24.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) 31.5 ^L g/dL 32.0 - 36.0 by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER			31.5 ^L	g/uL	32.0 - 30.0
RED CELL DISTRIBUTION WIDTH (RDW-CV)13.7%11.00 - 16.00by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER666			13.7	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD)43fL35.0 - 56.0by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER56.035.0 - 56.0			43	fL	35.0 - 56.0
MENTZERS INDEX 13.88 RATIO BETA THALASSEMIA TRAIT: < 13.0 by CALCULATED IRON DEFICIENCY ANEMIA: >13.0			13.88	RATIO	
GREEN & KING INDEX 19.02 RATIO BETA THALASSEMIA TRAIT: < =	GREEN & KING INDEX	(19.02	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED 65.0 IRON DEFICIENCY ANEMIA: > 65.0	by CALCULATED				
WHITE BLOOD CELLS (WBCS)	WHITE BLOOD CELLS	<u>(WBCS)</u>			IKON DEI ICIENCI ANEIVIIA. > 03.0
TOTAL LEUCOCYTE COUNT (TLC) 5710 /cmm 4000 - 11000			5710	/cmm	4000 - 11000
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY NUCLEATED RED BLOOD CELLS (nRBCS) NIL 0.00 - 20.00	-		NIL		0.00 - 20.00
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY	by CALCULATED BY AU				
NUCLEATED RED BLOOD CELLS (nRBCS) % NIL % < 10 % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY	NUCLEATED RED BLOC		NIL	%	< 10 %
DIFFERENTIAL LEUCOCYTE COUNT (DLC)		<u>CYTE COUNT (DLC)</u>			



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









Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

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

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Test Name		Value	Unit	Biological Reference interval
NEUTROPHILS		55	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY Y BY SF CUBE & MICROSCOPY	34	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS by FLOW CYTOMETR ABSOLUTE LEUKOCY	Y BY SF CUBE & MICROSCOPY (TFS (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTRO		3141	/cmm	2000 - 7500
ABSOLUTE LYMPHO	CYTE COUNT	1941	/cmm	800 - 4900

ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3141	/cmm
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1941	/cmm
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	228	/cmm
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	400	/cmm
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm
PLATELETS AND OTHER PLATELET PREDICTIVE MARKER	<u>lS.</u>	
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	136000 ^L	/cmm
PLATELETCRIT (PCT)	0.21	%
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE		
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	16 ^H	fL
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence PLATELET LARGE CELL COUNT (P-LCC)	16^H 83000	fL /cmm
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR)		
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	83000	/cmm

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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40 - 440

80 - 880

0 - 110

150000 - 450000

0.10 - 0.36

6.50 - 12.0

11.0 - 45.0

15.0 - 17.0

30000 - 90000

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com





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 Unit
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RECHECKED.



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CLIENT ADDRESS : 6349/1, 3 Test Name ERYTHROCYTE SEDIMENTATION by MODIFIED WESTERGREN AUTON INTERPRETATION: 1. ESR is a non-specific test becau immune disease, but does not tel 2. An ESR can be affected by othe as C-reactive protein 3. This test may also be used to m systemic lupus erythematosus CONDITION WITH LOW ESR A low ESR can be seen with condi (polycythaemia), significantly hig as sickle cells in sickle cell anaem NOTE: 1. ESR and C - reactive protein (C- 2. Generally, ESR does not change 3. CRP is not affected by as many 4. If the ESR is elevated, it is typic 5. Women tend to have a higher E	MALE 24 AGNOSTIC LAB , NICHOLSON ROAD, AMBA NICHOLSON ROAD, AMBA ERYTHROC N RATE (ESR) MATED METHOD use an elevated result ofter	REG. REGIS COLL REPO LA CANTT Value	ENT ID NO./LAB NO. STRATION DATE ECTION DATE RTING DATE Unit ATION RATE (ESR)	: 1570209 : 012408040035 : 04/Aug/2024 09:59 AM : 04/Aug/2024 10:13AM : 04/Aug/2024 12:01PM Biological Reference interval
COLLECTED BY : REFERRED BY : BARCODE NO. : 0151442 CLIENT CODE. : KOS DIAC CLIENT ADDRESS : 6349/1, : Test Name ERYTHROCYTE SEDIMENTATION by MODIFIED WESTERGREN AUTOW INTERPRETATION: 1. ESR is a non-specific test becau mmune disease, but does not tel 2. An ESR can be affected by other as C-reactive protein 3. This test may also be used to m systemic lupus erythematosus CONDITION WITH LOW ESR A low ESR can be seen with condi (polycythaemia), significantly hig as sickle cells in sickle cell anaem NOTE: 1. ESR and C - reactive protein (C- 2. Generally, ESR does not change 3. CRP is not affected by as many 4. If the ESR is elevated, it is typic 5. Women tend to have a higher E 6. Drugs such as dextran, methylo	24 AGNOSTIC LAB , NICHOLSON ROAD, AMBA ERYTHROC N RATE (ESR) <i>MATED METHOD</i> use an elevated result ofter	REG. REGIS COLL REPO LA CANTT Value YTE SEDIMENT	NO./LAB NO. STRATION DATE ECTION DATE RTING DATE Unit	: 012408040035 : 04/Aug/2024 09:59 AM : 04/Aug/2024 10:13AM : 04/Aug/2024 12:01PM
REFERRED BY : BARCODE NO. : 0151442 CLIENT CODE. : KOS DIAG CLIENT ADDRESS : 6349/1, 1 Test Name : ERYTHROCYTE SEDIMENTATION : by MODIFIED WESTERGREN AUTOM : Test is a non-specific test becaumune disease, but does not tell : An ESR is a non-specific test becaumune disease, but does not tell : An ESR can be affected by other : S. This test may also be used to may stemic lupus erythematosus : CONDITION WITH LOW ESR A low ESR can be seen with condition polycythaemia), significantly hig is sickle cells in sickle cell anaem MOTE: : . I. ESR and C - reactive protein (C-2. . Generally, ESR does not change . More tend to have a higher E . Women tend to have a higher E . Drugs such as dextran, methylo .	AGNOSTIC LAB , NICHOLSON ROAD, AMBA ERYTHROC N RATE (ESR) MATED METHOD use an elevated result ofter	REGIS COLL REPO LA CANTT Value YTE SEDIMENT	STRATION DATE ECTION DATE RTING DATE Unit	: 04/Aug/2024 09:59 AM : 04/Aug/2024 10:13AM : 04/Aug/2024 12:01PM
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	gh white blood cell count (le mia) also lower the ESR. -RP) are both markers of inf ge as rapidly as does CRP, ei other factors as is ESR, mak cally a result of two types o ESR, and menstruation and ldopa, oral contraceptives, j	eucocytosis), and flammation. ither at the start o king it a better ma of proteins, globul pregnancy can ca	some protein abnorn f inflammation or as i rker of inflammation. ins or fibrinogen. use temporary elevati	nalities. Some changes in red cell shape (su t resolves.





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Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMISTR	//BIOCHEMISTR	Y
	CLIN	IICAL CHEMISTR GLUCOSE FA		Y

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.
 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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Page 5 of 14







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NAME: Mr. ANILAGE/ GENDER: 50 YRS/MACOLLECTED BY:REFERRED BY:BARCODE NO.: 01514424CLIENT CODE.: KOS DIAGNCLIENT ADDRESS: 6349/1, ND	RE RE CO	TIENT ID 2G. NO./LAB NO. 2GISTRATION DATE 2LLECTION DATE 2PORTING DATE	: 1570209 : 012408040035 : 04/Aug/2024 09:59 AM : 04/Aug/2024 10:13AM : 04/Aug/2024 12:57PM
Test Name	Value	Unit	Biological Reference interval
	LIPID PROFI		
CHOLESTEROL TOTAL: SERUM	154.46		OPTIMAL: < 200.0
by CHOLESTEROL TOTAL: SERUM	104.40	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE	113.25 (ENZYMATIC)	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERU	JM 42.2	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOME	89.61	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 CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOME	112.26	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: SERUM by CALCULATED, SPECTROPHOTOME	22.65	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOME	422.17	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUN by CALCULATED, SPECTROPHOTOME		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: SERUM by CALCULATED, SPECTROPHOTOME	2.12	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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TRIGLYCERIDES/HD		2.68 ^L	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



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

MBBS, MD (PATHOLOGY)

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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

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

NAME	: Mr. ANIL		
AGE/ GENDER	: 50 YRS/MALE	PATIENT ID	: 1570209
COLLECTED BY	:	REG. NO./LAB NO.	: 012408040035
REFERRED BY	:	REGISTRATION DATE	: 04/Aug/2024 09:59 AM
BARCODE NO.	: 01514424	COLLECTION DATE	: 04/Aug/2024 10:13AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 04/Aug/2024 12:57PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
LIV	ER FUNCTION TES	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.57	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.19	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.38	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	48.7 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	111.5 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by calculated, spectrophotometry	0.44	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	85.15	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	42.6	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.93	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.12	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.81	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.47	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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT Test Name





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Test Name	V	alue Unit	Biological Reference interval

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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Test Name	Value	Unit	Biological Reference interval
KIE	ONEY FUNCTION TE	ST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	25.35	mg/dL	10.00 - 50.00
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	1.03	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	11.85	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by calculated, spectrophotometry	11.5	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	24.61	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	4.39	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	10.26	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry ELECTROLYTES	3.18	mg/dL	2.30 - 4.70
SODIUM: SERUM by ise (ion selective electrode)	140.1	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.1	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	105.07	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	88.5		

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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DR.YUGAM CHOPRA

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				: 04/Aug/2024 12:57PM
CLIENT ADDRESS	: 6349/1, NICHOLSO	N ROAD, AMBALA CANT		
Test Name		Value	Unit	Biological Reference interval
burns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle n 9. Certain drugs (e.g INCREASED RATIO (> 2	nction plus ake or production or tiss exia, high fever). n (e.g. ureter colostomy) nass (subnormal creatin tetracycline, glucocorti 20:1) WITH ELEVATED CR	ine production) coids) EATININE LEVELS:	tion, GI bleeding, thyrotoxic nine) (e.g. obstructive uropa	osis, Cushing's syndrome, high protein diet, ithy).
5. Impaired renal fur 6. Excess protein intra burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle n 9. Certain drugs (e.g INCREASED RATIO (> 1. Postrenal azotemia DECREASED RATIO (> 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperan 7. SIADH (syndrome 8. Pregnancy.	nction plus ake or production or tiss exia, high fever). In (e.g. ureter colostomy) hass (subnormal creatin tetracycline, glucocorti 20:1) WITH ELEVATED CR a (BUN rises disproporti superimposed on renal 10:1) WITH DECREASED I rosis. Ind starvation. e. ecreased urea synthesis. (urea rather than creatin monemias (urea is virtu	ine production) coids) EATININE LEVELS: onately more than creatin disease. BUN : nine diffuses out of extra ually absent in blood). etic harmone) due to tub	nine) (e.g. obstructive uropa icellular fluid).	

should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measuremen	IL).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		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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49/1, NICHOLSON ROAD, AMBALA CANTT	Г	
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		49/1, NICHOLSON ROAD, AMBALA CANTT

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



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MICROSCOPIC EXAMINATION



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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (R	RBCs) Centrifuged urinary sediment	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	2-3	/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	ζ, γ		
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			

End Of Report





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