



	Dr. Vinay Chopr MD (Pathology & Mice Chairman & Consulta	robiology)		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. MUKESH SAINI : 45 YRS/MALE : : : 01512782 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMB	ALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1344671 : 012407090010 : 09/Jul/2024 08:01 AM : 09/Jul/2024 08:26AM : 09/Jul/2024 09:15AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.0	
	CON	APLETE BLO	DOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		13.7	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RB		4.4	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUM		42.2	%	40.0 - 54.0
by CALCULATED BY A MEAN CORPUSCULAI	utomated hematology analyzer R VOLUME (MCV)	96	fL	80.0 - 100.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	31.1	pg	27.0 - 34.0
MEAN CORPUSCULA	UTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	32.4	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	utomated hematology analyzer ION WIDTH (RDW-CV)	13.3	%	11.00 - 16.00
RED CELL DISTRIBUT	UTOMATED HEMATOLOGY ANALYZER ION WIDTH (RDW-SD)	47.7	fL	35.0 - 56.0
by CALCULATED BY A MENTZERS INDEX by CALCULATED	UTOMATED HEMATOLOGY ANALYZER	21.82	RATIO	BETA THALASSEMIA TRAIT: < 13.0
GREEN & KING INDE	X	28.98	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u> (WBCS)</u>			
	OUNT (TLC) ' by sf cube & microscopy	5990	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLC	OOD CELLS (nRBCS) % <i>utomated hematology analyzer</i> &	NIL	%	< 10 %



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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Yugam Chopra

MD (Pathology)

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. MUKESH SAINI **AGE/ GENDER** : 45 YRS/MALE **PATIENT ID** :1344671 **COLLECTED BY** :012407090010 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :09/Jul/2024 08:01 AM **BARCODE NO.** :01512782 **COLLECTION DATE** :09/Jul/2024 08:26AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :09/Jul/2024 09:15AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 50 - 70 61 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 30 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % EOSINOPHILS 2 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 7 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 3654 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1797 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 120 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 419 ABSOLUTE MONOCYTE COUNT /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 166000 150000 - 450000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.24 % PLATELETCRIT (PCT) 0.10 - 0.36by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 14^H MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 93000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 56^H % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.9 15.0 - 17.0 %

Dr. Vinay Chopra

MD (Pathology & Microbiology)

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



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AGE/ GENDER	: 45 YRS/MALE	PATIENT ID	: 1344671
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	Biological Reference interval





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NAME :: Mr. MUKESH SAINI AGE/ GENDER :: 45 YES/MALE PATIENT ID :: 1344671 COLLECTED BY :: REG. NO./LAB NO. :: 012407090010 REFERRED BY :: REG.STRATION DATE :: 00/Jul/2024 08:01 AM BARCODE NO. :: 01512782 COLLECTION DATE :: 00/Jul/2024 08:26AM CLIENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE :: 00/Jul/2024 09:34AM CLIENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE :: 09/Jul/2024 09:34AM CLIENT ADDRESS :: 03:49/1, NICHOLSON ROAD. AMBALA CANT EXTHROCYTE SEDIMENTATION RATE (ESR) PATHEORYTE SEDIMENTATION RATE (ESR) REPORTING DATE :: 0.20 WIERPERTATION: INS Rs a non-Specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and auto- Immune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. INS Rs a non-Specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and auto- Immune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. INS Rs a non-Specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and auto- Immune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. A not SS can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as Creative protein (C-RP) are both markers of Inflammation. 1. SM and (L-RP) are both markers of Inflammation. 1. SM and (L-RP) are both markers of Inflammation. 1. SM and (L-RP) are both markers of Inflammation. 3. OPE hord affected by as any other factors as ESR, marking it a better marker of Inflammation. 4. Ut he SSR is abouted. It is typically a resuit of the site resolves.		Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)		(Pathology)
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REFEREED BY : REGISTRATION DATE : 09/Jul/2024 08:01 AM BARCODE NO. : 01512782 COLLECTION DATE : 09/Jul/2024 09:36AM CLIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 09/Jul/2024 09:34AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval Test Name Value Unit Biological Reference interval ERYTHROCYTE SEDIMENTATION RATE (ESR) 9 mm/1st hr 0 - 20 by MODIFIED WESTERGREN AUTOMATED METHOD Intervention Social and the second and the s	AGE/ GENDER	: 45 YRS/MALE		PATIENT ID	: 1344671
ARCODE NO. : 01512782 COLLECTION DATE : 09/Jul/2024 08:26AM CLIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 09/Jul/2024 09:34AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Fest Name Value Unit Biological Reference interval ERYTHROCYTE SEDIMENTATION RATE (ESR) SERVTHROCYTE SEDIMENTATION RATE (ESR) 9 mm/1st hr 0 - 20 by MODIFIED WESTERGREN AUTOMATED METHOD NTERPRETATION: L. SSR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and auto- mmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. 2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such 3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus SONDITION WITH OW ESR Alow ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such sis scike cells in sickle cell anaemia) also lower the ESR. VOTE: . ESR is not change as rapidly as does CRP, either at the start of inflammation or as it resolves. . CRP is not affected by amay other factors as is ESR, making it a better marker of inflammation. . Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations. . Drugs such as dexificant, methyldopa, oral contraceptives, pencillamine procainamide, theophyllice, and vitamin A can increase ESR, while	COLLECTED BY	:		REG. NO./LAB NO.	: 012407090010
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Test Name Value Unit Biological Reference interval ERYTHROCYTE SEDIMENTATION RATE (ESR) by MODIFIED WESTERGREN AUTOMATED METHOD TERPRETATION: LSR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and autommune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such is C-reactive protein An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such is C-reactive protein An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such is C-reactive protein An ESR can be affected by other conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count polycythaemia), significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (such so significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (such so significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (such so significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (such so significantly high	LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Jul/2024 09:34AM
Provide the protein (C-RP) are both markers of inflammation. Or protein diffected by as many other factors as is ESR, making it a better marker of inflammation. Or protein diffected by as many other factors as is ESR, making it a better marker of inflammation. Or protein diffected by a result of two types of proteins, globulins or fibrinogen.	LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
ERYTHROCYTE SEDIMENTATION RATE (ESR) 9 mm/1st hr 0 - 20 by MODIFIED WESTERGREN AUTOMATED METHOD 0 NTERPRETATION: 1 1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and autommune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. 2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such as C-reactive protein 3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus CONDITION WITH LOW ESR Alow ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR. VDTE: 1. ESR and C - reactive protein (C-RP) are both markers of inflammation. 2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves. 3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation. 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen. 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevati	Fest Name		Value	Unit	Biological Reference interval
RYTHROCYTE SEDIMENTATION RATE (ESR) 9 mm/1st hr 0 - 20 <i>by MODIFIED WESTERGREN AUTOMATED METHOD</i> NTERPRETATION: 1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and auto- mmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. 2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such as C-reactive protein 3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as rystemic lupus erythematosus CONDITION WITH LOW ESR Alow ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count polycythaemia), significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR. VOTE: 1. ESR and C - reactive protein (C-RP) are both markers of inflammation. 2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves. 3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation . 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen. 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations. 5. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while		FRYTHR	OCYTE SEDI	MENTATION RATE (ESE	2)
	by MODIFIED WESTER NTERPRETATION: 1. ESR is a non-specifi mmune disease, but 2. An ESR can be affect is C-reactive protein 3. This test may also b condition with LOW A low ESR can be seen polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevated 5. Women tend to hav 5. Drugs such as dext	GREN AUTOMATED METHOD c test because an elevated result of does not tell the health practitione cted by other conditions besides in the used to monitor disease activity ematosus V ESR n with conditions that inhibit the n ificantly high white blood cell cou e cell anaemia) also lower the ESR e protein (C-RP) are both markers of s not change as rapidly as does CR, by as many other factors as is ESR, d, it is typically a result of two typ ve a higher ESR, and menstruation ran, methyldopa, oral contraceptive	often indicates er exactly wher iflammation. Fo y and response ormal sedimer nt (leucocytosis cof inflammation P, either at the making it a bet pes of proteins, and pregnancy	the presence of inflammatie e the inflammation is in the pr this reason, the ESR is typ to therapy in both of the ak ntation of red blood cells, su s), and some protein abnor h. start of inflammation or as tter marker of inflammation globulins or fibrinogen. can cause temporary eleval	on associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such it resolves.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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NAME	: Mr. MUKESH SAINI			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
GLUCOSE FASTING (by GLUCOSE OXIDAS	(F): PLASMA SE - PEROXIDASE (GOD-POD)	GLUCOSE FAST 136.69 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
1. A fasting plasma g 2. A fasting plasma g	ion of 75 gms of glucose) is recon lucose level of above 125 mg/dl i	considered normal. ng/dl is considered as g nmended for all such pa is highly suggestive of d	tients. iabetic state. A repea	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for all atory for diabetic state.





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Test Name		Value	Unit	Biological Reference interval	
		LIPID PROFILE	: BASIC		
CHOLESTEROL TOTA by CHOLESTEROL OX		171.74	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240	
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	123.45	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0	
HDL CHOLESTEROL (by SELECTIVE INHIBIT		64.51	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0	
DL CHOLESTEROL: S by CALCULATED, SPE		82.54	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		107.23	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		24.69	mg/dL	0.00 - 45.00	
TOTAL LIPIDS: SERUI	N	466.93	mg/dL	350.00 - 700.00	
CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	2.66	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0	
DL/HDL RATIO: SER		1.28	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	

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		Chopra ry & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	L RATIO: SERUM ECTROPHOTOMETRY	1.91 ^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





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	Dr. Vinay Cho MD (Pathology & 1 Chairman & Const	Microbiology)		(Pathology)
NAME	: Mr. MUKESH SAINI			
AGE/ GENDER	: 45 YRS/MALE		PATIENT ID	: 1344671
COLLECTED BY	:		REG. NO./LAB NO.	: 012407090010
REFERRED BY	:		REGISTRATION DATE	: 09/Jul/2024 08:01 AM
BARCODE NO.	: 01512782		COLLECTION DATE	: 09/Jul/2024 08:26AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Jul/2024 10:24AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL: SE by DIAZOTIZATION, SP		0.71	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	ONJUGATED): SERUM	0.24	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM CTROPHOTOMETRY	0.47	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	27.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYH	RIDOXAL PHOSPHATE	28.5	U/L	0.00 - 49.00
AST/ALT RATIO: SERU		0.97	RATIO	0.00 - 46.00
ALKALINE PHOSPHAT by para nitropheny propanol	ASE: SERUM /L PHOSPHATASE BY AMINO METHYL	93.56	U/L	40.0 - 130.0
GAMMA GLUTAMYL by szasz, spectrof	TRANSFERASE (GGT): SERUM	56.05 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTROF		7.68	gm/dL	6.20 - 8.00

Vinav

ALBUMIN: SERUM by BROMOCRESOL GREEN **GLOBULIN: SERUM** by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

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)

3.96

3.72^H

1.06





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gm/dL

gm/dL

RATIO

3.50 - 5.50

2.30 - 3.50

1.00 - 2.00



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	Dr. Vinay Chopi MD (Pathology & Mid Chairman & Consulta	crobiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. MUKESH SAINI		
AGE/ GENDER	: 45 YRS/MALE	PATIENT ID	: 1344671
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Test Name		Value 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).

GOOD PROGNOSTIC SIGN 0.3 - 0.6	
POOR PROGNOSTIC SIGN 1.2 - 1.6	



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

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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
NAME	: Mr. MUKESH SAINI			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	KID	NEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		21.41	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN		1.06	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC BLOOD UREA NITRO		10	mg/dL	7.0 - 25.0
by CALCULATED, SPE		10	ing/ dE	7.0 20.0
	GEN (BUN)/CREATININE	9.43 ^L	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
UREA/CREATININE F		20.2	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS		7.35	mg/dL	3.60 - 7.70
CALCIUM: SERUM	SE PERUXIDASE	9.94	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE				
PHOSPHOROUS: SER		2.56	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
Sodium: Serum		141.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	ELECTRODE)	141.3	THINO/L	133.0 - 130.0
POTASSIUM: SERUM	1	4.2	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	(E ELECTRODE)	105 00		00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV	(E ELECTRODE)	105.98	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	88.2		
(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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Chopra v & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)	
NAME	: Mr. MUKESH SAINI				
AGE/ GENDER	: 45 YRS/MALE	РАТ	ENT ID	: 1344671	
COLLECTED BY			NO./LAB NO.	:012407090010	
	:				
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT			
Test Name		Value	Unit	Biological	Reference interval
 Severe liver disease Other causes of de 					
 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 	Acreased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN (by (accelerates conversion of de eleases muscle creatinine). who develop renal failure.	osent in blood). rmone) due to tubular se JINE: creatine to creatinine).	cretion of urea.	aies,resultina in norma	l ratio when dehydratic
 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 their 	Acreased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN (by (accelerates conversion of a eleases muscle creatinine). who develop renal failure. (c) (sis (acetoacetate causes false creased BUN/creatinine ratio) (interferes with creatinine)	osent in blood). rmone) due to tubular se JINE: creatine to creatinine). increase in creatinine wi	cretion of urea.	gies,resulting in norma	l ratio when dehydratio
 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 thei 	Acreased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN (by (accelerates conversion of a eleases muscle creatinine). who develop renal failure. (c) who develop renal failure. (c) (c) (c) (c) (c) (c) (c) (c)	osent in blood). rmone) due to tubular se JINE: creatine to creatinine). increase in creatinine wi e measurement).	cretion of urea. th certain methodolo	gies,resulting in norma SOCIATED FINDINGS	l ratio when dehydratio
 4. Other causes of de 5. Repeated dialysis (5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin their ESTIMATED GLOMERL CKD STAGE G1 	Acreased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN apy (accelerates conversion of a eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false creased BUN/creatinine ratio) rapy (interferes with creatinine JLAR FILTERATION RATE: DESCRIPTION Normal kidney fur	esent in blood). rmone) due to tubular se JINE: creatine to creatinine). increase in creatinine wi e measurement). <u>J GFR (mL/mi</u> nction >9	cretion of urea. th certain methodolo n/1.73m2) AS	SOCIATED FINDINGS	l ratio when dehydratio
 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 their ESTIMATED GLOMERL CKD STAGE 	Acreased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false creased BUN/creatinine ratio) rapy (interferes with creatinine JLAR FILTERATION RATE: DESCRIPTION Normal kidney fur Kidney damage	esent in blood). rmone) due to tubular services JINE: creatine to creatinine). increase in creatinine wi e measurement). <u>J GFR (mL/minction >9</u> with >9	cretion of urea. th certain methodolo h/1.73m2) AS D PI	SOCIATED FINDINGS	l ratio when dehydratio
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 GLOMERI CKD STAGE G1 G2	Acreased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of a eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false creased BUN/creatinine ratio) rapy (interferes with creatinine JLAR FILTERATION RATE: DESCRIPTION Normal kidney fur Kidney damage a normal or high	esent in blood). rmone) due to tubular services JINE: creatine to creatinine). increase in creatinine wi e measurement). J <u>GFR (mL/minction</u> >9 with >9 GFR	cretion of urea. th certain methodolo h/1.73m2)AS DAID	SOCIATED FINDINGS	l ratio when dehydratio
 4. Other causes of de 5. Repeated dialysis (5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin their ESTIMATED GLOMERL CKD STAGE G1 	Acreased urea synthesis. (urea rather than creatinine di monemias (urea is virtually ab of inappropiate antidiuretic har 10:1) WITH INCREASED CREATIN py (accelerates conversion of eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false creased BUN/creatinine ratio) rapy (interferes with creatinine JLAR FILTERATION RATE: DESCRIPTION Normal kidney fur Kidney damage	sent in blood). rmone) due to tubular ser JINE: creatine to creatinine). increase in creatinine wi e measurement). <u>A GFR (mL/mi</u> nction >9 with >9 GFR <u>60 -</u>	cretion of urea. th certain methodolo n/1.73m2) AS D Pr Alb 89	SOCIATED FINDINGS	l ratio when dehydratio

G4 G5

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

Severe decrease in GFR

Kidney failure

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

15-29

<15









	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. MUKESH SAINI		
AGE/ GENDER	: 45 YRS/MALE	PATIENT ID	: 1344671
COLLECTED BY	:	REG. NO./LAB NO.	: 012407090010
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA 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



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	MD (Pa	inay Chopra athology & Microbiology) nan & Consultant Pathologist	Dr. Yugarı MD CEO & Consultant	(Pathology)
NAME	: Mr. MUKESH SAIN	I		
AGE/ GENDER	: 45 YRS/MALE	P	PATIENT ID	: 1344671
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Test Name		Value	Unit	Biological Reference interval
		AM	/LASE	
AMYLASE - SERUM by CNPG 3, SPECTRO INTERPRETATION	PHOTOMETRY	80.89	IU/L	0 - 90

COMMENTS

1.Amylase is produced in the Pancreas and most of the elevation in serum is due to increased rate of Amylase entry into the blood stream / decreased rate of clearance or both.

2.Serum Amylase rises within 6 to 48 hours of onset of Acute pancreatitis in 80% of patients, but is not proportional to the severity of the disease.

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

3.Activity usually returns to normal in 3-5 days in patients with milder edematous form of the disease.
4.Values persisting longer than this period suggest continuing necrosis of pancreas or Pseudocyst formation.
5.Approximately 20% of patients with Pancreatitis have normal or near normal activity.
6.Hyperlipemic patients with Pancreatitis also show spuriously normal Amylase levels due to suppression of Amylase activity by triglyceride.
7.Low Amylase levels are seen in Chronic Pancreatitis, Congestive Heart failure, 2nd & 3rd trimesters of pregnancy, Gastrointestinal cancer & bare fortunes. bone fractures.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Che MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. MUKESH SAINI : 45 YRS/MALE : : : 01512782 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	REGIST COLLE REPOR	NT ID O./LAB NO. FRATION DATE CTION DATE CTING DATE	: 1344671 : 012407090010 : 09/Jul/2024 08:01 AM : 09/Jul/2024 08:26AM : 09/Jul/2024 11:00AM
Test Name		Value	Unit	Biological Reference interval
PHYSICAL EXAMINA		CLINICAL PATH DUTINE & MICROSCO		ION
QUANTITY RECIEVEI by DIP STICK/REFLEC COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY	C TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	10 AMBER YELLOW HAZY <=1.005	mi	PALE YELLOW CLEAR 1.002 - 1.030
REACTION by DIP STICK/REFLEC PROTEIN by DIP STICK/REFLEC SUGAR by DIP STICK/REFLEC PH by DIP STICK/REFLEC BILIRUBIN by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	NEUTRAL Negative Negative 7 Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLEC KETONE BODIES by DIP STICK/REFLEC BLOOD by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY. TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	Normal Negative TRACE NEGATIVE (-ve)	EU/dL	0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)



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

Page 14 of 15





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

NAME	: Mr. MUKESH SAINI			
AGE/ GENDER	: 45 YRS/MALE	PATIENT	ID	: 1344671
	. 45 IK5/ MALE			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
	, ,			
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (RBCs) CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 3
	CENTRIELIGED LIRINARY SEDIMENT	4-5	/HPF	0 - 5
by MICROSCOPY ON EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	4-5 1-2	/HPF /HPF	0 - 5 ABSENT
by MICROSCOPY ON EPITHELIAL CELLS by MICROSCOPY ON CRYSTALS	CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS by MICROSCOPY ON CRYSTALS by MICROSCOPY ON CASTS		1-2		ABSENT

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

NEGATIVE (-ve)

ABSENT

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NEGATIVE (-ve)

ABSENT