



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)		(Pathology)
NAME	: Mr. HIMANSHU SABARWAL			
AGE/ GENDER	: 43 YRS/MALE		PATIENT ID	: 1616907
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409180027
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 18/Sep/2024 09:52 AM
BARCODE NO.	:01517186		COLLECTION DATE	: 18/Sep/2024 09:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Sep/2024 10:04AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWA	STHYA W	ELLNESS PANEL: G	
	CON	MPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (RE	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC		12.7	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC	C) COUNT	4.39	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUM		39.1 <sup>L</sup>	%	40.0 - 54.0
MEAN CORPUSCULAR		89.1	fL	80.0 - 100.0
	HAEMOGLOBIN (MCH)	28.8	pg	27.0 - 34.0
	HEMOGLOBIN CONC. (MCHC)	32.4	g/dL	32.0 - 36.0
	TOMATED HEMATOLOGY ANALYZER	13.3	%	11.00 - 16.00
	ON WIDTH (RDW-SD) ITOMATED HEMATOLOGY ANALYZER	44.3	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		20.3	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED		26.87	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	(WBCS)			
TOTAL LEUCOCYTE CC	DUNT (TLC) by sf cube & microscopy	8620	/cmm	4000 - 11000
	THEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLOG by CALCULATED BY AU DIFFERENTIAL LEUCO	ITOMATED HEMATÓLOGY ANALYZER	NIL	%	< 10 %
NEUTROPHILS by flow cytometry	BY SF CUBE & MICROSCOPY	55	%	50 - 70





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







	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
LYMPHOCYTES		32	%	20 - 40
by FLOW CYTOMETRY EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	7 <sup>H</sup>	%	1 - 6
	Y BY SF CUBE & MICROSCOPY	,	70	1-0
MONOCYTES		6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	Ű	10	
ABSOLUTE LEUKOCY	<u>TES (WBC) COUNT</u>			
ABSOLUTE NEUTROF		4741	/cmm	2000 - 7500
ABSOLUTE LYMPHO	y by sf cube & microscopy CYTE COUNT	2758	/cmm	800 - 4900
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINOP	HIL COUNT Y by sf cube & microscopy	603 <sup>H</sup>	/cmm	40 - 440
ABSOLUTE MONOCY		517	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY	0	100000	0 110
ABSOLUTE BASOPHI	L COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTH	HER PLATELET PREDICTIVE MARKE	<u>RS.</u>		
PLATELET COUNT (PI		325000	/cmm	150000 - 450000
	OCUSING, ELECTRICAL IMPEDENCE	H	%	0.10 - 0.36
PLATELETCRIT (PCT) by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE	0.39 <sup>H</sup>	70	0.10-0.36
MEAN PLATELET VO	LUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	12	fL	6.50 - 12.0
PLATELET LARGE CEL		130000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CEI		40	%	11.0 - 45.0
PLATELET DISTRIBUT	TION WIDTH (PDW)	15.9	%	15.0 - 17.0
	FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Sep/2024 02:24PM
CLIENT ADDRESS			KEI OKIING DATE	. 10/ Sep/ 2024 02.241 M
LIENI ADDRESS	: 6349/1, NICHOLSON ROAD, AM	VIDALA CAN I I		
			Unit EMOGLOBIN (HBA1C)	
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY)			
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE	OSYLATED HA 7.9 <sup>H</sup> 180.03 <sup>H</sup>	EMOGLOBIN (HBA1C) % mg/dL	4.0 - 6.4
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): prmance liquid chromatography) E PLASMA GLUCOSE prmance liquid chromatography)	OSYLATED HA 7.9 <sup>H</sup> 180.03 <sup>H</sup> IABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	OSYLATED HA 7.9 <sup>H</sup> 180.03 <sup>H</sup> IABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL ATION (ADA): YCOSYLATED HEMOGLOGIE <5.7	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI NHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO NTERPRETATION:	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	OSYLATED HA 7.9 <sup>H</sup> 180.03 <sup>H</sup> IABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL ATION (ADA): YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	OSYLATED HA 7.9 <sup>H</sup> 180.03 <sup>H</sup> IABETES ASSOCIA	EMOGLOBIN (HBA1C) % mg/dL ATION (ADA): YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	OSYLATED HA 7.9 <sup>H</sup> 180.03 <sup>H</sup> IABETES ASSOCIA GL	EMOGLOBIN (HBA1C) % mg/dL ATION (ADA): YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 8 (HBAIC) in %
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	OSYLATED HA 7.9 <sup>H</sup> 180.03 <sup>H</sup> IABETES ASSOCIA GL GOals	EMOGLOBIN (HBA1C) % mg/dL ATION (ADA): YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years of Therapy:	4.0 - 6.4 60.00 - 140.00 8 (HBAIC) in %
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE PRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	OSYLATED HA 7.9 <sup>H</sup> 180.03 <sup>H</sup> IABETES ASSOCIA GL GOals	EMOGLOBIN (HBA1C) % mg/dL ATION (ADA): YCOSYLATED HEMOGLOGIE <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 8 (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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	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. HIMANSHU SABARWAL			
AGE/ GENDER	: 43 YRS/MALE	РАТ	IENT ID	: 1616907
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BARCODE NO.	: 01517186	COL	LECTION DATE	: 18/Sep/2024 09:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 18/Sep/2024 10:18AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHR	OCYTE SEDIMEN	TATION RATE (ES	R)
	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	14	mm/1st h	
polycythaemia), sigr	n with conditions that inhibit the n hificantly high white blood cell cour	nt (leucocytosis), ar	n of red blood cells, s nd some protein abno	uch as a high red blood cell count
IOTE: . ESR and C - reactive . Generally, ESR doe . CRP is not affected . If the ESR is elevate . Women tend to ha . Drugs such as dext	e cell anaemia) also lower the ESR e protein (C-RP) are both markers o is not change as rapidly as does CRF <b>by as many other factors as is ESR</b> , ed, it is typically a result of two typ ve a higher ESR, and menstruation a ran, methyldopa, oral contraceptiv d quinine may decrease it	f inflammation. P, either at the start <b>making it a better n</b> es of proteins, glob and pregnancy can d	harker of inflammation ulins or fibrinogen. cause temporary eleva	s it resolves.





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NAME	: Mr. HIMANSHU SABARWAL			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 19/Sep/2024 10:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY/	BIOCHEMISTRY	Y
		GLUCOSE FAST	'ING (F)	
GLUCOSE FASTING ( by glucose oxidas	F): PLASMA E - PEROXIDASE (GOD-POD)	186.98 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
<ol> <li>A fasting plasma g</li> <li>A fasting plasma g</li> <li>test (after consumpti</li> </ol>	on of 75 gms of glucose) is recon	considered normal. ng/dl is considered as g nmended for all such pa	tients.	prediabetic. A fasting and post-prandial blood

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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CLIENT CODE. : KOS	S DIAGNOSTIC LAB	R	EPORTING DATE	: 19/Sep/2024 10:54AM
CLIENT ADDRESS : 634	9/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	FILE : BASIC	
CHOLESTEROL TOTAL: SERU by CHOLESTEROL OXIDASE		200.95 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE C	DXIDASE (ENZYMATIC)	252.86 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT by SELECTIVE INHIBITION	r): SERUM	30.84	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROP		119.54	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: S by CALCULATED, SPECTROP		170.11 <sup>H</sup>	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: SERUI		50.57 <sup>H</sup>	mg/dL	0.00 - 45.00
by CALCULATED, SPECTROP TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPI		654.76	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: by CALCULATED, SPECTROP	SERUM	6.52 <sup>H</sup>	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, SPECTROP	HOTOMETRY	3.88 <sup>H</sup>	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	Br	Ge	opra	

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Page 6 of 13





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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		8.2 <sup>H</sup>	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.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement



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**REPORTING DATE** 

MD (Pathology)

:1616907

:012409180027

:18/Sep/2024 09:52 AM

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:19/Sep/2024 10:54AM

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. HIMANSHU SABARWAL : 43 YRS/MALE **PATIENT ID** : SURJESH REG. NO./LAB NO. : **REGISTRATION DATE COLLECTION DATE** 

**BARCODE NO.** :01517186 CLIENT CODE. : KOS DIAGNOSTIC LAB

**CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name	Value	Unit	Biological Reference interval
LIV	ER FUNCTION TES	T (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.53	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.16	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by Calculated, spectrophotometry	0.37	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	45.3 <sup>H</sup>	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	51.2 <sup>H</sup>	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.88	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	78.5	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	57.31 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.29	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.67	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by Calculated, spectrophotometry	2.62	gm/dL	2.30 - 3.50
	1.4	RATIO	1.00 - 2.00

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)





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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

NAME

AGE/ GENDER

**COLLECTED BY** 

**REFERRED BY** 





	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology) MI	m Chopra D (Pathology) ht Pathologist
NAME	: Mr. HIMANSHU SABARWAL		
AGE/ GENDER	: 43 YRS/MALE	PATIENT ID	: 1616907
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012409180027
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Sep/2024 09:52 AM
BARCODE NO.	:01517186	COLLECTION DATE	: 18/Sep/2024 09:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 19/Sep/2024 10:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT	
			/
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).

PROGNOSTIC	SIGNIFICANCE:

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



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	KI	ONEY FUNCTION TE	EST (COMPLETE)		
UREA: SERUM		14.78	mg/dL	10.00 - 50.00	
by UREASE - GLUTAN CREATININE: SERUN	/ATE DEHYDROGENASE (GLDH) /	0.81	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC		0.01	Thy/dL	0.40 - 1.40	
	OGEN (BUN): SERUM ECTROPHOTOMETRY	6.91 <sup>L</sup>	mg/dL	7.0 - 25.0	
•	GEN (BUN)/CREATININE	8.53 <sup>L</sup>	RATIO	10.0 - 20.0	
RATIO: SERUM		0.00			
by Calculated, SP UREA/CREATININE F	ECTROPHOTOMETRY RATIO: SERLIM	18.25	RATIO		
	ECTROPHOTOMETRY	10.23	KATO		
URIC ACID: SERUM		6.27	mg/dL	3.60 - 7.70	
by URICASE - OXIDASE PEROXIDASE CALCIUM: SERUM		9.61	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE	ECTROPHOTOMETRY		ing/ de	0.00 10.00	
PHOSPHOROUS: SEF		2.92	mg/dL	2.30 - 4.70	
ELECTROLYTES	DATE, SPECTROPHOTOMETRY				
Sodium: serum		141.8	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV	/E ELECTRODE)	11.0		133.0 130.0	
POTASSIUM: SERUM		4.43	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIN CHLORIDE: SERUM	E ELEGIRUDE)	106.35	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIV					
ESTIMATED GLOME	RULAR FILTERATION RATE				
	RULAR FILTERATION RATE	112.2			
(eGFR): SERUM 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





JO JUUT . 2000 0211							
		<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultant		Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist			
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Test Name			Value	Un	it Biologica	al Reference interval	
<ol> <li>Inherited hyperam</li> <li>SIADH (syndrome of 8. Pregnancy.</li> <li>DECREASED RATIO (</li> <li>1. Phenacimide thera</li> <li>2. Rhabdomyolysis (r</li> <li>3. Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>1. Diabetic ketoacido should produce an in</li> </ol>	10:1) WITH DECR rosis. and starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate a 10:1) WITH INCRI apy (accelerates releases muscle o who develop re b; sis (acetoacetat creased BUN/cri rapy (interferes JLAR FILTERATIO	EASED BUN : hthesis. h creatinine diffuses ou is virtually absent in b intidiuretic harmone) d EASED CREATININE: conversion of creatine to creatinine). hal failure. e causes false increase eatinine ratio). with creatinine measure	lood). ue to tubular to creatinine; in creatinine ement).	secretion of urea	hodologies,resulting in norr	nal ratio when dehydration	
G1		mal kidney function		>90	No proteinuria		
G2		dney damage with		>90	Presence of Protein ,	-1	
	n	ormal or high GFR			Albumin or cast in urine		
G3a	Mi	Id decrease in GFR	e	50 -89			

01	i tormar kianoj ranotion	- 10	
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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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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KOS Diagnostic Lab (A Unit of KOS Healthcare)

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Test Name		Value	Unit	Biological Reference interval
	IN	IMUNOPATI	HOLOGY/SEROLOGY	
	RHEUMAT	TOID FACTOR	(RA): QUANTITATIVE - S	SERUM
RHEUMATOID (RA) F SERUM <i>by NEPHLOMETRY</i>	ACTOR QUANTITATIVE:	0.85	IU/mL	NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0
. Over 75% of patien seful although it may . Inflammatory Mark . The titer of RF corr. . The test is useful for <b>HEUMATOID ARTHIR</b> . Rheumatoid Arthir nembrane lining (syr . The disease spreda . The diagnosis of R4 heasurement of RA fa <b>AUTION (FALSE POST</b> . RA factor is not spect . Non rheumatoid an . Patients have a no. . Patients with variou upus erythematosus, . Anti-CCP have been pecific (98%) than RA . Ubto 30 % of patient	s (RF) are antibodies that are din the with rheumatoid arthritis (RJ y not be etiologically related to cers such as ESR & C-Reactive pr elates poorly with disease activit or diagnosis and prognosis of rh <b>ITIS:</b> itis is a systemic autoimmune of novium) joints which ledas to pr is from small to large joints, wit A is primarily based on clinical, actor. <b>ITVE:</b> cific for Rheumatoid arthritis, as d rheumatoid arthritis (RA) popu- nreactive titer and 8% of nonrheumatoid discovered in joints of patients v factor. the with Seronegative Rheumatoi ive value of Anti-CCP antibodies in the service of the service and the service of the service of the service of the service of the service of the service of Anti-CCP antibodies of the service of	A) have an IgM a RA. otein (CRP) are r ity, but those pat neumatoid arthri disease that is mu rogressive joint of h greatest dama radiological & in lit is often presen lations are not clu umatoid patients icterized by chron lis, viral hepatitis, vith RA, but not in id arthiritis also si	ntibody to IgG immunoglob normal in about 60 % of pati ients with high titers tend to itis. ulti-functional in origin and destruction and in most case ge in early phase. nmunological features. The r <i>t</i> in healthy individuals with c early separate with regard to have a positive titer). ic inflammation may have po infectious mononucleosis, ar o other form of joint disease. whow Anti-CCP antibodies.	ulin. This autoantibody (RF) is diagnostically ents with positive RA. b have more severe disease course. is characterized by chronic inflammation of the es to disability and reduction of quality life. most frequent serological test is the other autoimmune diseases and chronic infection: the presence of rheumatoid factor (RF) (15% of sitive tests for RF. These diseases include systemic of influenza. Anti-CCP2 is HIGHLY SENSITIVE (71%) & more
			Report ^ ^ ^	



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