



Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F			athology)
NAME : Mr. AMIT KUMAR			
AGE/ GENDER : 42 YRS/MALE		PATIENT ID	: 1823768
COLLECTED BY : SURJESH		REG. NO./LAB NO.	: 012504090028
REFERRED BY :		REGISTRATION DATE	: 09/Apr/2025 09:49 AM
BARCODE NO. : 01528660		COLLECTION DATE	:09/Apr/2025 10:02AM
CLIENT CODE. : KOS DIAGNOSTIC LAB		REPORTING DATE	:09/Apr/2025 10:44AM
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBAL	A CANTT		
Test Name V	alue	Unit	Biological Reference interval
SWASTH	VA WE	LLNESS PANEL: G	
		OOD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES		002 000112 (020)	
HAEMOGLOBIN (HB)	8.6 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RBC) COUNT	$2.7^{ m L}$	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV)	26 ^L	%	40.0 - 54.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR VOLUME (MCV)	98.9	fL	80.0 - 100.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	32.4	ng	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		pg	
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	32.8	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	16.3 ^H	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	59.7 ^H	fL	35.0 - 56.0
MENTZERS INDEX	36.63	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED			13.0 IRON DEFICIENCY ANEMIA:
			>13.0
GREEN & KING INDEX by CALCULATED	185.39	RATIO	BETA THALASSEMIA TRAIT: <= 74.1
			<= 74.1 IRON DEFICIENCY ANEMIA:
			>= 74.1
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3450 ^L	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PART HEMATOLOGY ANALYZER NUCLEATED RED BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
	1	1	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







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Test Name		Value	Unit	Biological Reference interval
	AUTOMATED HEMATOLOGY ANALYZER EUCOCYTE COUNT (DLC)			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	49 ^L	%	50 - 70
LYMPHOCYTES		38	%	20 - 40
by FLOW CYTOMETR EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6
	Y BY SF CUBE & MICROSCOPY	5	70	r o
MONOCYTES		10	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	0	70	0 - 1
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUT	ROPHIL COUNT Y BY SF CUBE & MICROSCOPY	1691 ^L	/cmm	2000 - 7500
ABSOLUTE LYMP		1311	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSIN	OPHIL COUNT Y BY SF CUBE & MICROSCOPY	104	/cmm	40 - 440
ABSOLUTE MONO		345	/cmm	80 - 880
•	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE BASO	PHIL COUNT 'y by sf cube & microscopy	0	/cmm	0 - 110
	OTHER PLATELET PREDICTIV	<u>E MARKERS.</u>		
PLATELET COUN	T (PLT) FOCUSING, ELECTRICAL IMPEDENCE	49000 ^L	/cmm	150000 - 450000
PLATELETCRIT (I		0.07 ^L	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE		~	
MEAN PLATELET	VOLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	16 ^H	fL	6.50 - 12.0
	E CELL COUNT (P-LCC)	30000 ^L	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE			
	E CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	66.1 ^H	%	11.0 - 45.0
	IBUTION WIDTH (PDW)	15.6	%	15.0 - 17.0





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Test Name		Value	Unit	Biological Reference interval
ADVICE	COCUSING, ELECTRICAL IMPEDENCE	KINI	DLY CORRELATE CLINI	CALLY

RECHECKED.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR'	FING DATE	: 09/Apr/2025 12:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			·
Test Name		Value	Unit	Biological Reference interva
		SYLATED HAEMO	GLOBIN (HBA)	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO	GLYCO HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) CAGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY)	96.8	GLOBIN (HBA % mg/dL	1C) 4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO	HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) RAGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY)	5	% mg/dL	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO	HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) RAGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY)	5 96.8 DIABETES ASSOCIATION (A	% mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION: Non d	HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP iabetic Adults >= 18 years	5 96.8 DIABETES ASSOCIATION (A	% mg/dL DA): ITED HEMOGLOGIB <5.7	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION: Non d	HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) CAGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP iabetic Adults >= 18 years At Risk (Prediabetes)	5 96.8 DIABETES ASSOCIATION (A	% mg/dL DA): ITED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION: Non d	HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) AGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP iabetic Adults >= 18 years	5 96.8 DIABETES ASSOCIATION (A	% mg/dL DA): TED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVER by HPLC (HIGH PERFO INTERPRETATION: Non d	HAEMOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) CAGE PLASMA GLUCOSE DRMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP iabetic Adults >= 18 years At Risk (Prediabetes)	5 96.8 DIABETES ASSOCIATION (A	% mg/dL DA): TED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years py:	4.0 - 6.4 60.00 - 140.00

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.	: 01528660	COLLI	ECTION DATE	: 09/Apr/2025 10:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 09/Apr/2025 11:24AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTHROC	CYTE SEDIMEN'	FATION RATE	(ESR)
by RED CELL AGGRECT INTERPRETATION: 1. ESR is a non-specifi immune disease, but 2. An ESR can be affect as C-reactive protein 3. This test may also I systemic lupus erythe CONDITION WITH LOV 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 elevate 5. Women tend to ha	EDIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY In test because an elevated result of does not tell the health practitioner cted by other conditions besides inf be used to monitor disease activity a matosus V ESR n with conditions that inhibit the no dificantly high white blood cell coun e cell anaemia) also lower the ESR. e protein (C-RP) are both markers of s not change as rapidly as does CRP by as many other factors as is ESR, m ed, it is typically a result of two type ve a higher ESR, and menstruation a	48 ^H ften indicates the pre- exactly where the ir lammation. For this r and response to ther ormal sedimentation t (leucocytosis), and inflammation. , either at the start o naking it a better mai es of proteins, globuli nd pregnancy can cai	mm/1st hi sence of inflammatio flammation is in the eason, the ESR is typ apy in both of the ab of red blood cells, su some protein abnor f inflammation or as ker of inflammation ns or fibrinogen. use temporary elevat	r 0 - 20 on associated with infection, cancer and auto- body or what is causing it. ically used in conjunction with other test such oove diseases as well as some others, such as ich as a high red blood cell count malities. Some changes in red cell shape (such it resolves.
	d quinine may decrease it			

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	PROTH	ROMBIN TIMI	E STUDIES (PT/IN	NR)	
PT TEST (PATIEN		14.9 ^H	SECS	11.5 - 14.5	
PT (CONTROL) by PHOTO OPTICAL C	CLOT DETECTION	12	SECS		
ISI by PHOTO OPTICAL C	CLOT DETECTION	1.1			
INTERNATIONAL by PHOTO OPTICAL C	NORMALISED RATIO (INR)	1.27 ^H		0.80 - 1.20	
PT INDEX by PHOTO OPTICAL C	CLOT DETECTION	80.54	%		
ADVICE		KINDLY CO	RRELATE CLINICA	ALLY	

INTERPRETATION:-

1.INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.

2. Prolonged INR suggests potential bleeding disorder /bleeding complications

3. Results should be clinically correlated.

4. Test conducted on Citrated Plasma

RECOMMENDED THERAPEUTIC RANGE FOR ORAL ANTI-COAGULANT THERAPY (INR)				
		INTERNATIONAL NORMALIZED RA (INR)		
Treatment of venous thrombosis				
Treatment of pulmonary embolism				
Prevention of systemic embolism in tissue heart valves				
Valvular heart disease	Low Intensity		2.0 - 3.0	
Acute myocardial infarction				
Atrial fibrillation				
Bileaflet mechanical valve in aortic position				
Recurrent embolism				
Mechanical heart valve	High Intensity		2.5 - 3.5	



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Test Name		Value	Unit	Biological Reference interval
Antiphospholipid ar	ntibodies ⁺			

COMMENTS:

The prothrombin time (PT) and its derived measures of prothrombin ratio (PR) and international normalized ratio (INR) are measures of the efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway. The common causes of prolonged prothrombin time are :

1.Oral Anticoagulant therapy.

2.Liver disease.

3.Vit K. deficiency.

4.Disseminated intra vascular coagulation. 5.Factor 5, 7, 10 or Prothrombin dificiency



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CLIENT ADDRESS	: 6349/1, NICHOLSON	N ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CI	INICAL CHEMISTRY	/BIOCHEMIST	TRY
		GLUCOSE FAS	TING (F)	
CI LICOSE EASTIN	G (F): PLASMA E - PEROXIDASE (GOD-POI	90.44	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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. 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 ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	FILE : BASIC	
CHOLESTEROL TO	OTAL: SERUM	120.14	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O>	(IDASE PAP			BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES:		67.76	mg/dL	OPTIMAL : < 150.0
by GLYCEROL PHOSF	PHATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTER	DL (DIRECT): SERUM	44.63	mg/dL	LOW HDL: < 30.0
by Selective Inhibit	ION			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTERC		61.96	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CTROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0
NON LIDI, CHOI ES		75 51	TL)	VERY HIGH: $> OR = 190.0$
NON HDL CHOLES by CALCULATED, SPE		75.51	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 CHOLESTER		13.55	mg/dL	0.00 - 45.00
by CALCULATED, SPE		Ţ		250.00 700.00
TOTAL LIPIDS: SE by CALCULATED, SPE		308.04 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HI	DL RATIO: SERUM	2.69	RATIO	LOW RISK: 3.30 - 4.40
WCALCULATED SPE	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0



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BARCODE NO.	:01528660	COLI	ECTION DATE	: 09/Apr/2025 10:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 09/Apr/2025 01:37PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		1.39	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	HDL RATIO: SERUM	1.52 ^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.

 Cow 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 Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)		(Pathology)
NAME	: Mr. AMIT KUMAR			
AGE/ GENDER	: 42 YRS/MALE		PATIENT ID	: 1823768
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012504090028
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 09/Apr/2025 03:23PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interva
	LIVER	FUNCTION	N TEST (COMPLETE)
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	5.07 ^H	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	3.05 ^H	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	2.02 ^H	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	1 RIDOXAL PHOSPHATE	118.8 ^H	U/L	7.00 - 45.00
SGPT/ALT: SERUM		49.8 ^H	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	2.39	RATIO	0.00 - 46.00
ALKALINE PHOSP		508.95 ^H	U/L	40.0 - 130.0
GAMMA GLUTAM	YL TRANSFERASE (GGT): SERUI PHTOMETRY	M 45.13	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO		5.95 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		2.81 ^L	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	Λ	3.14	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	JM .	0.89 ^L	RATIO	1.00 - 2.00
NOTE 2		RESULT	RECHECKED TWICE	
ADVICE		KINDLY	Y CORRELATE CLINIC	ALLY

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)





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Test Name		Value	Unit	Biological Reference interval
CIRRHOSIS			1.4 - 2.0	

CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)
DECDEASED:	

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 interva
	KIDNEY	FUNCTION (ON TEST (COMPLETI	E)
UREA: SERUM		11.26	mg/dL	10.00 - 50.00
by UREASE - GLUTAMA	TE DEHYDROGENASE (GLDH)			
CREATININE: SERU		0.85	mg/dL	0.40 - 1.40
,	OGEN (BUN): SERUM	5.26 ^L	mg/dL	7.0 - 25.0
by CALCULATED, SPEC	CTROPHOTOMETRY			
BLOOD UREA NITR RATIO: SERUM	OGEN (BUN)/CREATININE	6.19 ^L	RATIO	10.0 - 20.0
by CALCULATED, SPEC	CTROPHOTOMETRY			
UREA/CREATININE		13.25	RATIO	
by CALCULATED, SPEC		3.63	mg/dL	3.60 - 7.70
by URICASE - OXIDASE		5.05	Ing/uL	3.00 - 7.70
CALCIUM: SERUM		8.91	mg/dL	8.50 - 10.60
by ARSENAZO III, SPEC PHOSPHOROUS: SE		4.07	mg/dL	2.30 - 4.70
	ATE, SPECTROPHOTOMETRY	4.07	IIIg/uL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		137.8	mmol/L	135.0 - 150.0
by ISE (ION SELECTIVE POTASSIUM: SERUI		4.25	mmol/I	3.50 - 5.00
by ISE (ION SELECTIVE		4.23	mmol/L	5.50 - 5.00
CHLORIDE: SERUM		103.35	mmol/L	90.0 - 110.0
by ISE (ION SELECTIVE FSTIMATED CLON	ELECTRODE) IERULAR FILTERATION RATI	F		
(eGFR): SERUM	ERULAR FILTERATION RATE	111.3		
by CALCULATED				
INTERPRETATION:	en nre- and nost renal azotemia			

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





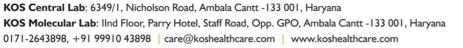
		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)		Yugam Chopra MD (Pathology) Isultant Pathologist	
IAME	: Mr. AMIT	KUMAR				
GE/ GENDER	: 42 YRS/MA	LE		PATIENT ID	: 1823768	
OLLECTED BY	: SURJESH			REG. NO./LAB NO.	:012504090028	8
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LIENT CODE.	: KOS DIAGN	IOSTIC LAB		REPORTING DATI	1	
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LIENI ADDRESS	. 0343/ 1, 10	CHOLSON ROAD, AWDP	ALA CANT I			
est Name			Value	Un	it Biologic	al Reference interval
Prerenal azotemia s ECREASED RATIO (<10 Acute tubular necro Low protein diet an Severe liver disease Other causes of dec Repeated dialysis (u Inherited hyperamr SIADH (syndrome o Pregnancy. ECREASED RATIO (<10 Phenacimide therap Rhabdomyolysis (re Muscular patients v JAPPROPIATE RATIO:	superimposed D:1) WITH DEC Dosis. d starvation. creased urea s urea rather th nonemias (ur f inappropiate D:1) WITH INC Dy (accelerate eleases muscle who develop r	EXERASED BUN : an creatinine diffuses o ea is virtually absent in antidiuretic harmone) o REASED CREATININE: s conversion of creatine e creatinine). renal failure.	out of extrac blood). due to tubu e to creatini	cellular fluid). Ilar secretion of urea ne).		nal ratio when dehydratio
hould produce an inc	reased BUN/ apy (interfere	creatinine ratio). s with creatinine measur			- <u>-</u>	
CKD STAGE		DESCRIPTION	GFR (r	mL/min/1.73m2)	ASSOCIATED FINDINGS	
G1	N	ormal kidney function		>90	No proteinuria	

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









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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



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		Chopra / & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interva
	IMN	MUNOPATHOI	LOGY/SEROLOG	Y
	HEPAT	ITIS C VIRUS (H	CV) ANTIBODY: T	OTAL
	BODY (HCV) TOTAL: SER		S/CO	NEGATIVE: < 1.00 POSITIVE: > 1.00
HEPATITIS C ANT	IBODY (HCV) TOTAL	NON - REA	CTIVE	
RESULT				
by CMIA (CHEMILUMIN	ESCENT MICROPARTICLE IMMUN	DASSAY)		
	SULT (INDEX)		REMARKS	
	< 1.00	Ν	ION - REACTIVE/NOT - DET	ECTED
	> =1.00		MPTOMATIC/INFECTIVE ST	
Hepatitis C (HCV) is a	> =1.00 n RNA virus of Favivirus group	REACTIVE/ASYN o transmitted via bloo atients and rarely from	ION - REACTIVE/NOT - DE MPTOMATIC/INFECTIVE ST d transfusions, transplar n mother to infant. 10 %	

2. Routine screening of low and high prevelance population including blood donors.

NOTE:

1. False positive results are seen in Auto-immune disease, Rheumatoid Factor, HYpergammaglobulinemia, Paraproteinemia, Passive antibody transfer, Anti-idiotypes and Anti-superoxide dismutase.

2. False negative results are seen in early Acute infection, Immunosuppression and Immuno-incompetence.

3. HCV-RNĂ PCR recommended in all reactive results to differentiate between past and present infection.





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Test Name		Value	Unit	Biological Reference interval
	HEPATITIS	B SURFACE	ANTIGEN (HBsAg)	ULTRA
LIEDATITIC D CLID	FACE ANTIGEN (HBsAg):	0.18	S/CO	NEGATIVE: < 1.0 POSITIVE: > 1.0
SERUM	SESCENT MICROPARTICLE IMMUNOAS	SAY)		
SERUM by CMIA (CHEMILUMII HEPATITIS B SUR RESULT by CMIA (CHEMILUMII	NESCENT MICROPARTICLE IMMUNOAS FACE ANTIGEN (HBsAg) NESCENT MICROPARTICLE IMMUNOAS	NON REA	CTIVE	
SERUM by CMIA (CHEMILUMII HEPATITIS B SUR RESULT by CMIA (CHEMILUMII INTERPRETATION:	FACE ANTIGEN (HBsAg)	NON REA		
SERUM by CMIA (CHEMILUMII HEPATITIS B SUR RESULT by CMIA (CHEMILUMII <u>INTERPRETATION:</u> RESU	FACE ANTIGEN (HBsAg)	NON REA	CTIVE REMARKS NEGATIVE (-ve)	

Hepatitis B Virus (HBV) is a member of the Hepadna virus family causing infection of the liver with extremely variable clinical features. Hepatitis B is transmitted primarily by body fluids especially serum and also spread effectively sexually and from mother to baby. In most individuals HBV hepatitis is self limiting, but 1-2 % normal adolescent and adults develop Chronic Hepatitis. Frequency of chronic HBV infection is 5-10% in immunocompromised patients and 80 % neonates. The initial serological marker of acute infection is HBsAg which typically appears 2-3 months after infection and disappears 12-20 weeks after onset of symtoms. Persistence of HBsAg for more than 6 months indicates carrier state or Chronic Liver disease.

*** End Of Report ***





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