



	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F			(Pathology)	
NAME : Mr. MO	OHIT GUPTA				
AGE/ GENDER : 46 YRS/	/MALE		PATIENT ID	: 1674787	
<b>COLLECTED BY</b> : SURJES	H		REG. NO./LAB NO.	:01241118002	2
	AL PHOENIX CLUB (AMBALA			:18/Nov/202410	:37 AM
BARCODE NO. : 015210			COLLECTION DATE	: 18/Nov/2024 10	
	AGNOSTIC LAB , NICHOLSON ROAD, AMBAL		REPORTING DATE	: 18/Nov/2024 11	:38AM
Fact Nome	X	aha	Ti:4	Dialogic	al Deference internal
Test Name	V	alue	Unit	Biologic	al Reference interval
RED BLOOD CELLS (RBCS) (	COMPL		LLNESS PANEL: G OOD COUNT (CBC)		
HAEMOGLOBIN (HB)		14.4	gm/dL	12.0 - 1	7.0
by CALORIMETRIC RED BLOOD CELL (RBC) COU by HYDRO DYNAMIC FOCUSING, E	INT	5.3 <sup>H</sup>	Millions	′cmm 3.50 - 5	.00
PACKED CELL VOLUME (PCV by CALCULATED BY AUTOMATED		45.1	%	40.0 - 5	4.0
MEAN CORPUSCULAR VOLUM	ME (MCV) 8	35.1	fL	80.0 - 1	00.0
MEAN CORPUSCULAR HAEM	OGLOBIN (MCH)	27.2	pg	27.0 - 3	4.0
MEAN CORPUSCULAR HEMC by CALCULATED BY AUTOMATED	GLOBIN CONC. (MCHC) 3	32	g/dL	32.0 - 3	6.0
RED CELL DISTRIBUTION W	IDTH (RDW-CV)	13.7	%	11.00 -	16.00
RED CELL DISTRIBUTION W	IDTH (RDW-SD) 4	43.5	fL	35.0 - 5	6.0
MENTZERS INDEX by CALCULATED		16.06	RATIO	13.0	HALASSEMIA TRAIT: < EFICIENCY ANEMIA:
GREEN & KING INDEX by calculated WHITE BLOOD CELLS (WBC		22.02	RATIO	65.0	HALASSEMIA TRAIT:<= EFICIENCY ANEMIA: >
WILLE DLOOD CELLS (WDC	TLC) 8	3540	/cmm	4000 - 1	1000
FOTAL LEUCOCYTE COUNT (					
FOTAL LEUCOCYTE COUNT ( by flow cytometry by sf cue NUCLEATED RED BLOOD CE by automated 6 part hemato.	LLS (nRBCS)	NIL		0.00 - 2	0.00





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	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)
NAME	: Mr. MOHIT GUPTA			
AGE/ GENDER	: 46 YRS/MALE		PATIENT ID	: 1674787
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012411180022
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBA	ALA CANTT)	REGISTRATION DATE	: 18/Nov/2024 10:37 AM
BARCODE NO.	:01521011		COLLECTION DATE	: 18/Nov/2024 10:44AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Nov/2024 11:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
				/
Test Name		Value	Unit	<b>Biological Reference interval</b>
DIFFERENTIAL LEU	JCOCYTE COUNT (DLC)			
NEUTROPHILS	BY SF CUBE & MICROSCOPY	61	%	50 - 70
LYMPHOCYTES	BT SF COBE & MICROSCOPT	28	%	20 - 40
	BY SF CUBE & MICROSCOPY			
EOSINOPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES		7	%	2 - 12
	BY SF CUBE & MICROSCOPY	0	%	0 1
BASOPHILS by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKO	CYTES (WBC) COUNT			
ABSOLUTE NEUTRO	PHIL COUNT by sf cube & microscopy	5209	/cmm	2000 - 7500
ABSOLUTE LYMPHO		2391	/cmm	800 - 4900
ABSOLUTE EOSINO	BY SF CUBE & MICROSCOPY PHIL COUNT	342	/cmm	40 - 440
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY			
ABSOLUTE MONOCY	YTE COUNT BY SF CUBE & MICROSCOPY	598	/cmm	80 - 880
ABSOLUTE BASOPH	IIL COUNT	0	/cmm	0 - 110
,	BY SF CUBE & MICROSCOPY	MADVEDC		
	THER PLATELET PREDICTIVE		/	150000 450000
PLATELET COUNT (	CUSING, ELECTRICAL IMPEDENCE	255000	/cmm	150000 - 450000
PLATELETCRIT (PC by HYDRO DYNAMIC FO	Γ) DCUSING, ELECTRICAL IMPEDENCE	0.31	%	0.10 - 0.36
MEAN PLATELET VO	DLUME (MPV) DCUSING, ELECTRICAL IMPEDENCE	12	fL	6.50 - 12.0
	ELL COUNT (P-LCC)	108000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE C	ELL RATIO (P-LCR)	42.3	%	11.0 - 45.0
by HYDRO DYNAMIC FO	UTION WIDTH (PDW) DCUSING, ELECTRICAL IMPEDENCE	16	%	15.0 - 17.0
NOTE: TEST CONDUC	CTED ON EDTA WHOLE BLOOD			





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	<b>Biological Reference interval</b>





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 18/Nov/2024 03:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED H	AEMOGLOBIN (HBA1C)	
GLYCOSYLATED HAE			AEMOGLOBIN (HBA1C) %	4.0 - 6.4
WHOLE BLOOD	MOGLOBIN (HbA1c):	COSYLATED H 7.1 <sup>H</sup>		
WHOLE BLOOD	MOGLOBIN (HbA1c):	7.1 <sup>H</sup>		
WHOLE BLOOD by hplc (high perform ESTIMATED AVERAG	MOGLOBIN (HbA1c):		%	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	7.1 <sup>H</sup> 157.07 <sup>H</sup>	% mg/dL	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION:	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE	7.1 <sup>H</sup> 157.07 <sup>H</sup> Betes association	% mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years	7.1 <sup>H</sup> 157.07 <sup>H</sup> Betes association	% mg/dL (ADA): YLATED HEMOGLOGIB (HBAIC) i <5.7	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	7.1 <sup>H</sup> 157.07 <sup>H</sup> Betes association	% mg/dL (ADA): <u>/LATED HEMOGLOGIB (HBAIC) i</u> <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years	7.1 <sup>H</sup> 157.07 <sup>H</sup> Betes association	% mg/dL (ADA): (LATED HEMOGLOGIB (HBAIC) i <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	7.1 <sup>H</sup> 157.07 <sup>H</sup> BETES ASSOCIATION GLYCOST	% mg/dL (ADA): /LATED HEMOGLOGIB (HBAIC) i <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	7.1 <sup>H</sup> 157.07 <sup>H</sup> BETES ASSOCIATION GLYCOS Goals of The	% mg/dL (ADA): /LATED HEMOGLOGIB (HBAIC) i <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: <7.	4.0 - 6.4 60.00 - 140.00 in %
WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGI by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	MOGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	7.1 <sup>H</sup> 157.07 <sup>H</sup> BETES ASSOCIATION GLYCOST	% mg/dL (ADA): /LATED HEMOGLOGIB (HBAIC) i <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: <7.	4.0 - 6.4 60.00 - 140.00 in %

# 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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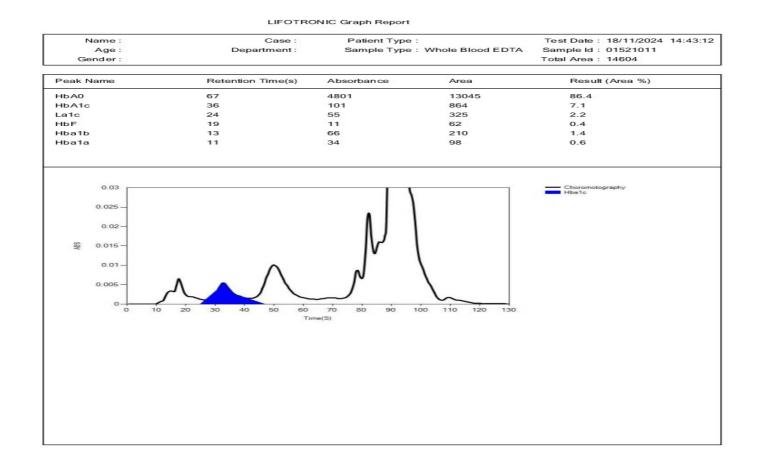


TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 18/Nov/2024 10:37 AM
BARCODE NO.	: 01521011	COLLECTION DATE	: 18/Nov/2024 10:44AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 18/Nov/2024 03:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	
Test Name	Value	Unit	Biological Reference interval





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АМЕ	: Mr. MOHIT GUPTA			
GE/ GENDER	: 46 YRS/MALE		PATIENT ID	: 1674787
OLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012411180022
EFERRED BY	: CENTRAL PHOENIX CLUB (A	MBALA CANTT)	REGISTRATION DATE	: 18/Nov/2024 10:37 AM
ARCODE NO.	:01521011		COLLECTION DATE	: 18/Nov/2024 10:44AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 18/Nov/2024 11:14AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
'est Name		Value	Unit	<b>Biological Reference interval</b>
by RED CELL AGGRE <b>STERPRETATION:</b> . ESR is a non-speci nmune disease, bu . An ESR can be affi s C-reactive protei . This test may also vstemic lupus ervth	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET fic test because an elevated resu t does not tell the health practition ected by other conditions besides be used to monitor disease activities the matosus	9 RY It often indicates t oner exactly where s inflammation. Fo	e the inflammation is in the r this reason, the ESR is ty	hr 0 - 20
by RED CELL AGGRE NTERPRETATION: . ESR is a non-speci nmune disease, bu . An ESR can be affer s C-reactive proteir . This test may also ystemic lupus eryth ONDITION WITH LO low ESR can be ser polycythaemia), sig s sickle cells in sick OTE:	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET fic test because an elevated result t does not tell the health practition ected by other conditions besides be used to monitor disease activity tematosus <b>DV ESR</b> en with conditions that inhibit th nificantly high white blood cell c le cell anaemia) also lower the f	9 RY It often indicates to oner exactly where is inflammation. For vity and response to e normal sediment ount (leucocytosis ESR.	mm/1st he presence of inflammat the inflammation is in the r this reason, the ESR is ty to therapy in both of the a tation of red blood cells, s ) , and some protein abno	hr 0 - 20 ion associated with infection, cancer and auto- body or what is causing it. pically used in conjunction with other test such
by RED CELL AGGRE ITERPRETATION: ESR is a non-speci- mune disease, bu An ESR can be affer is c-reactive protein This test may also restemic lupus eryth DNDITION WITH LC Iow ESR can be served olycythaemia), sig is sickle cells in sick OTE: ESR and C - reactive Generally, ESR dod CRP is not affected If the ESR is eleva Women tend to h. Drugs such as dex	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET fic test because an elevated result t does not tell the health practitie ected by other conditions beside: be used to monitor disease active mematosus W ESR en with conditions that inhibit th inficantly high white blood cell c ile cell anaemia) also lower the fill we protein (C-RP) are both market es not change as rapidly as does d by as many other factors as is Est ted, it is typically a result of two ave a higher ESR, and menstruati	9 RY It often indicates to oner exactly where is inflammation. For vity and response to e normal sediment ount (leucocytosis ESR. rs of inflammation. CRP, either at the SR, making it a bett types of proteins, is on and pregnance of	mm/1st he presence of inflammat the inflammation is in the r this reason, the ESR is ty o therapy in both of the a tation of red blood cells, s ), and some protein abno start of inflammation or a ter marker of inflammation globulins or fibrinogen. can cause temporary eleva	hr 0 - 20 ion associated with infection, cancer and auto- a body or what is causing it. pically 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 s it resolves.
by RED CELL AGGRE ITERPRETATION: ESR is a non-speci- nmune disease, bu An ESR can be affer s C-reactive protein This test may also vstemic lupus eryth ONDITION WITH LC low ESR can be served objycythaemia), sig s sickle cells in sick OTE: ESR and C - reactive Generally, ESR dod CRP is not affected If the ESR is eleva Women tend to h. Drugs such as dex	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET fic test because an elevated result t does not tell the health practitie ected by other conditions beside: be used to monitor disease active nematosus WW ESR en with conditions that inhibit th nificantly high white blood cell c le cell anaemia) also lower the fill we protein (C-RP) are both marker es not change as rapidly as does d by as many other factors as is Est ted, it is typically a result of two ave a higher ESR, and menstruati tran, methyldopa, oral contrace	9 RY It often indicates to oner exactly where is inflammation. For vity and response to e normal sediment ount (leucocytosis ESR. rs of inflammation. CRP, either at the SR, making it a bett types of proteins, is on and pregnance of	mm/1st he presence of inflammat the inflammation is in the r this reason, the ESR is ty o therapy in both of the a tation of red blood cells, s ), and some protein abno start of inflammation or a ter marker of inflammation globulins or fibrinogen. can cause temporary eleva	hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically 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 s it resolves.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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



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		Chopra y & Microbiology) consultant Pathologist	Dr. Yugam ( MD (P CEO & Consultant Pa	Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	ORTING DATE	: 18/Nov/2024 11:49AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLIN	ICAL CHEMISTRY	/BIOCHEMISTR	2Y
		GLUCOSE FAST	ГING (F)	
GLUCOSE FASTING by GLUCOSE OXIDASI	(F): PLASMA E - PEROXIDASE (GOD-POD)	123.84 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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.





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		Chopra & Microbiology) onsultant Pathologis		(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TOT by CHOLESTEROL OX		165.74	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SI by GLYCEROL PHOSP	ERUM HATE OXIDASE (ENZYMATIC)	113.16	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROI by SELECTIVE INHIBITI	L (DIRECT): SERUM	35.51	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		107.6	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 CHOLEST by CALCULATED, SPE		130.23 <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 CHOLESTERC		22.63	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER by CALCULATED, SPE	UM	444.64	mg/dL	350.00 - 700.00
CHOLESTEROL/HD by CALCULATED, SPE	L RATIO: SERUM	4.67 <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



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cł MD (Pathology & Chairman & Cor			(Pathology)
NAME	: Mr. MOHIT GUPTA			
AGE/ GENDER	: 46 YRS/MALE		PATIENT ID	: 1674787
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012411180022
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (A	MBALA CANTT)	<b>REGISTRATION DATE</b>	: 18/Nov/2024 10:37 AM
BARCODE NO.	:01521011		COLLECTION DATE	: 18/Nov/2024 10:44AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 18/Nov/2024 11:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE		3.03 <sup>H</sup>	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM ECTROPHOTOMETRY	3.19	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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	Test Name		Value	Unit	Biological Reference interval
	BILIRUBIN TOTAL:		<b>R FUNCTIO</b> 0.83	<b>N TEST (COMPLETE)</b> mg/dL	INFANT: 0.20 - 8.00
) : :	by DIAZOTIZATION, SPI		0.00	ling/ uL	ADULT: 0.00 - 1.20
	BILIRUBIN DIRECT by DIAZO MODIFIED, SI	(CONJUGATED): SERUM PECTROPHOTOMETRY	0.19	mg/dL	0.00 - 0.40
	BILIRUBIN INDIREC	CT (UNCONJUGATED): SERUM	0.64	mg/dL	0.10 - 1.00
	SGOT/AST: SERUM by IFCC, WITHOUT PYF	RIDOXAL PHOSPHATE	22.89	U/L	7.00 - 45.00
	SGPT/ALT: SERUM by IFCC, WITHOUT PYF	RIDOXAL PHOSPHATE	35.87	U/L	0.00 - 49.00
	AST/ALT RATIO: SE by CALCULATED, SPEC		0.64	RATIO	0.00 - 46.00
	ALKALINE PHOSPH by PARA NITROPHENY PROPANOL	ATASE: SERUM L PHOSPHATASE BY AMINO METHYL	99.92	U/L	40.0 - 130.0
	GAMMA GLUTAMYI by szasz, spectropi	L TRANSFERASE (GGT): SERUM	35.32	U/L	0.00 - 55.0
	TOTAL PROTEINS: S	SERUM	6.8	gm/dL	6.20 - 8.00
	ALBUMIN: SERUM		4.14	gm/dL	3.50 - 5.50
	GLOBULIN: SERUM		2.66	gm/dL	2.30 - 3.50
	A : G RATIO: SERUM		1.56	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

**NOTE:** To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

### **INCREASED:**

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)



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INTERPRETATION





Test Name	Value	Unit	Biological Reference interval
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NAME	: Mr. MOHIT GUPTA		
	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)

#### 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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0 3001 . 2000 CENT						
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	KIDNE	EY FUNCTIO	ON TEST (COMPLETE)			
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	19.43	mg/dL	10.00 - 50.00		
CREATININE: SER	UM	0.91	mg/dL	0.40 - 1.40		
by ENZYMATIC, SPEC	ROGEN (BUN): SERUM	9.08	mg/dL	7.0 - 25.0		
by CALCULATED, SPE	ECTROPHOTOMETRY					
BLOOD UREA NITH RATIO: SERUM	ROGEN (BUN)/CREATININE	9.98 <sup>L</sup>	RATIO	10.0 - 20.0		
by CALCULATED, SPE	ECTROPHOTOMETRY					
UREA/CREATININ by CALCULATED, SPE		21.35	RATIO			
URIC ACID: SERUM		7.55	mg/dL	3.60 - 7.70		
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.6	mg/dL	8.50 - 10.60		
by ARSENAZO III, SPE	CTROPHOTOMETRY	9.0	ling/ uL	8.50 - 10.00		
PHOSPHOROUS: SE	ERUM DATE, SPECTROPHOTOMETRY	2.78	mg/dL	2.30 - 4.70		
ELECTROLYTES	ATE, OF EOTHOR HOTOMETRY					
SODIUM: SERUM by ISE (ION SELECTIV		141.6	mmol/L	135.0 - 150.0		
POTASSIUM: SERU		4.3	mmol/L	3.50 - 5.00		
by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM		106.2	mmol/L	90.0 - 110.0		
by ISE (ION SELECTIV		100.2		30.0 - 110.0		
ESTIMATED GLON	IERULAR FILTERATION RATE					
(eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	105.3				
INTERPRETATION:	and next rend part to a logatoria					

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.

3. GI haemorrhage.



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Test Name		Value	Unit	Bio	logical Reference interv
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b> 1. Postrenal azotemia	tia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine p retracycline, glucocorticoid <b>D:1) WITH ELEVATED CREATI</b> (BUN rises disproportionat	s) NINE LEVELS: ely more than creatinin	e) (e.g. obstructive ι	uropathy).	
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of der 5. Repeated dialysis ( 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients v INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an ind 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine p cetracycline, glucocorticoid: <b>D:1) WITH ELEVATED CREATI</b> (BUN rises disproportionat superimposed on renal dise <b>D:1) WITH DECREASED BUN</b> osis. d starvation. creased urea synthesis. urea rather than creatinine nonemias (urea is virtually f inappropiate antidiuretic f <b>D:1) WITH INCREASED CREA</b> by (accelerates conversion of cleases muscle creatinine). who develop renal failure. is (acetoacetate causes failure reased BUN/creatinine ration apy (interferes with creatinine <b>LAR FILTERATION RATE:</b> <u>DESCRIPTI</u> <u>Normal kidney</u> Kidney damag normal or hig	s) NINE LEVELS: ely more than creatinin ease.  diffuses out of extrace absent in blood). harmone) due to tubula TININE: of creatine to creatinine se increase in creatinine se increase in creatinine o). ine measurement). ON GFR (mL function us with h GFR	Ilular fluid). ar secretion of urea. b). e with certain methor <u>/min/1.73m2 )</u> >90 >90		in ,
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of deu 5. Repeated dialysis ( 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients v INAPPROPIATE RATIO 1. Diabetic ketoacido: should produce an ind 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1 G2 G3a	(e.g. ureter colostomy) ass (subnormal creatinine p cetracycline, glucocorticoid: <b>b:1) WITH ELEVATED CREATI</b> (BUN rises disproportionat superimposed on renal dise <b>b:1) WITH DECREASED BUN</b> osis. d starvation. creased urea synthesis. urea rather than creatinine nonemias (urea is virtually f inappropiate antidiuretic f <b>b:1) WITH INCREASED CREA</b> oy (accelerates conversion of cleases muscle creatinine). who develop renal failure. is (acetoacetate causes failure.	s) NINE LEVELS: ely more than creatinin ease.  diffuses out of extrace absent in blood). harmone) due to tubula TININE: of creatine to creatinine se increase in creatinine se increase in creatinine o). Ine measurement). ON GFR (mL function ye with h GFR in GFR	Ilular fluid). In secretion of urea. P). e with certain methor <u>/min/1.73m2 )</u> >90 >90 60 -89	odologies,resulting in <u>ASSOCIATED FINDIN</u> <u>No proteinuria</u> Presence of Protei	NGS
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of deu 5. Repeated dialysis ( 6. Inherited hyperami 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (re 3. Muscular patients o INAPPROPIATE RATIO 1. Diabetic ketoacidos should produce an ind 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1 G2	(e.g. ureter colostomy) ass (subnormal creatinine p cetracycline, glucocorticoid: <b>D:1) WITH ELEVATED CREATI</b> (BUN rises disproportionat superimposed on renal dise <b>D:1) WITH DECREASED BUN</b> osis. d starvation. creased urea synthesis. urea rather than creatinine nonemias (urea is virtually f inappropiate antidiuretic f <b>D:1) WITH INCREASED CREA</b> by (accelerates conversion of cleases muscle creatinine). who develop renal failure. is (acetoacetate causes failure reased BUN/creatinine ration apy (interferes with creatinine <b>LAR FILTERATION RATE:</b> <u>DESCRIPTI</u> <u>Normal kidney</u> Kidney damag normal or hig	s) NINE LEVELS: ely more than creatinin ease.  diffuses out of extrace absent in blood). harmone) due to tubula TININE: of creatine to creatinine se increase in creatinine se increase in creatinine o). ine measurement). ON GFR (mL function e with h GFR in GFR ase in GFR	Ilular fluid). ar secretion of urea. b). e with certain methor <u>/min/1.73m2 )</u> >90 >90	odologies,resulting in <u>ASSOCIATED FINDIN</u> <u>No proteinuria</u> Presence of Protei	NGS





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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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URINE RO	Value CLINICAL PATH	OLOGY	Biological Reference interval
	CLINICAL PATH	OLOGY	Biological Reference interval
	UTINE & MICROSCO		
<u>'ION</u>		OPIC EXAMINA	ATION
	10		
CE SPECTROPHOTOMETRY	10	ml	
	PALE YELLOW		PALE YELLOW
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY			CLEAR
CE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
<u>FION</u>			
	ACIDIC		
SE SPECIROPHOTOMETRY	Negative		NEGATIVE (-ve)
CE SPECTROPHOTOMETRY			NEGATIVE (-ve)
CE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	6		5.0 - 7.5
	Negative		NEGATIVE (-ve)
CE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
CE SPECTROPHOTOMETRY.			
CE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
	Negative		NEGATIVE (-ve)
CE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
CE SPECTROPHOTOMETRY			
CE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
BCs)	NEGATIVE (-ve)	/HPF	0 - 3
	CE SPECTROPHOTOMETRY CE SPECTROPHOTOMETRY	XON10CE SPECTROPHOTOMETRYPALE YELLOWCE SPECTROPHOTOMETRYCLEARCE SPECTROPHOTOMETRY1.02CE SPECTROPHOTOMETRYACIDICCE SPECTROPHOTOMETRYNegativeCE SPECTROPHOTOMETRY6CE SPECTROPHOTOMETRYNegativeCE SPECTROPHOTOMETRYNEGATIVE (-ve)	10mlCE SPECTROPHOTOMETRY CE SPECTROPHOTOMETRYPALE YELLOWCE SPECTROPHOTOMETRY CE SPECTROPHOTOMETRY1.02CE SPECTROPHOTOMETRY TIONACIDICCE SPECTROPHOTOMETRY CE SPECTROPHOTOMETRYNegativeCE SPECTROPHOTOMETRY CE SPECTROPHOTOMETRY6CE SPECTROPHOTOMETRY CE SPECTROPHOTOMETRYNegativeCE SPECTROPHOTOMETRY CE SPECTROPHOTOMETRYNEGATIVE (-ve)





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Dr. Vinay Chopra

EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. MOHIT GUPTA **PATIENT ID** AGE/ GENDER : 46 YRS/MALE :1674787 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012411180022 **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** : 18/Nov/2024 10:37 AM **BARCODE NO.** :01521011 **COLLECTION DATE** :18/Nov/2024 10:44AM **CLIENT CODE.** : KOS DIAGNOSTIC LAB **REPORTING DATE** :18/Nov/2024 11:36AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT PUS CELLS 2-4/HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT

\*\* End Of Report \*\*\*



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