



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mr. GARVIT				
AGE/ GENDER	: 25 YRS/MALE		PATIENT ID	: 1711288	
<b>COLLECTED BY</b>	:		REG. NO./LAB NO.	: 042412290003	
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 29/Dec/2024 11:08 AM	
BARCODE NO.	: A1260200		COLLECTION DATE	: 29/Dec/2024 04:17PM	
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 29/Dec/2024 04:23PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT			
Test Name		Value	Unit	<b>Biological Refe</b>	rence interval
			LLNESS PANEL: 15. OOD COUNT (CBC)	.0	
	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HI	3)	16	gm/dL	12.0 - 17.0	
RED BLOOD CELL (I	RBC) COUNT DCUSING, ELECTRICAL IMPEDENCE	5.9 <sup>H</sup>	Millions/	/cmm 3.50 - 5.00	
PACKED CELL VOLU	IME (PCV)	52.3	%	40.0 - 54.0	
MEAN CORPUSCULA		88.6	fL	80.0 - 100.0	
MEAN CORPUSCUL	JTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER	27.2	pg	27.0 - 34.0	
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	30.7 <sup>L</sup>	g/dL	32.0 - 36.0	
RED CELL DISTRIBU	JTION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	12.8	%	11.00 - 16.00	
RED CELL DISTRIBU	JTION WIDTH (RDW-SD)	42.6	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		15.02	RATIO	BETA THALAS 13.0 IRON DEFICIE >13.0	SEMIA TRAIT: < NCY ANEMIA:
GREEN & KING IND by CALCULATED	EX	19.28	RATIO	BETA THALAS 65.0	SEMIA TRAIT:<= NCY ANEMIA: >
WHITE BLOOD CEI	LS (WBCS)			00.0	
TOTAL LEUCOCYTE	COUNT (TLC) by sf cube & microscopy	7670	/cmm	4000 - 11000	
NUCLEATED RED B	LOOD CELLS (nRBCS) T HEMATOLOGY ANALYZER	NIL		0.00 - 20.00	
NUCLEATED RED B	LOOD CELLS (nRBCS) % JTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %	





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. GARVIT AGE/ GENDER : 25 YRS/MALE **PATIENT ID** :1711288 **COLLECTED BY** :042412290003 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 29/Dec/2024 11:08 AM **BARCODE NO. COLLECTION DATE** : 29/Dec/2024 04:17PM :A1260200 CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 29/Dec/2024 04:23PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 56 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 33 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 6 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4295 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2531 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 460<sup>H</sup> /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 384 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 336000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.37<sup>H</sup> PLATELETCRIT (PCT) % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE fL 11 6.50 - 12.0

114000<sup>H</sup>

33.8

16.1

MEAN PLATELET VOLUME (MPV) by Hydro Dynamic Focusing, electrical impedence PLATELET LARGE CELL COUNT (P-LCC) by Hydro Dynamic Focusing, electrical impedence PLATELET LARGE CELL RATIO (P-LCR) by Hydro Dynamic Focusing, electrical impedence PLATELET DISTRIBUTION WIDTH (PDW) by Hydro Dynamic Focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

%	

/cmm

~ /



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



30000 - 90000

11.0 - 45.0

15.0 - 17.0

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Test Name	Value	e Unit	Biological Reference interval





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		<b>Chopra</b> y & 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	<b>Biological Reference interval</b>	
	CLIN	NICAL CHEMISTR	Y/BIOCHEMIST	'RY	
		GLUCOSE FA	STING (F)		

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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Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROFILI	E : BASIC	
CHOLESTEROL TOT	TAL: SERUM	166.52	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		0	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
TRIGLYCERIDES: S		206.71 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROI by SELECTIVE INHIBIT	L (DIRECT): SERUM	34.54	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI	ON			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROI		90.64	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 UDI QUOI FO		п	. / 11	VERY HIGH: $> OR = 190.0$
NON HDL CHOLEST by CALCULATED, SPE		131.98 <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	DL: SERUM	41.34	mg/dL	0.00 - 45.00
by CALCULATED, SPE	CTROPHOTOMETRY			
TOTAL LIPIDS: SER by CALCULATED, SPE		539.75	mg/dL	350.00 - 700.00
CHOLESTEROL/HD		4.82 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPE	CTROPHOTOMETRY			AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
				/
Test Name		Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE		2.62	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		5.98 <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

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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A : G RATIO: SERUM 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** 





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Test Name		Value Unit	<b>Biological Reference interval</b>

Test Name	Value	Unit	<b>Biological Reference interval</b>

## **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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	KIDNI	EY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		32.44	mg/dL	10.00 - 50.00
by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERU by ENZYMATIC, SPEC		0.94	mg/dL	0.40 - 1.40
	OGEN (BUN): SERUM	15.16	mg/dL	7.0 - 25.0
by CALCULATED, SPE	CTROPHOTOMETRY			
	COGEN (BUN)/CREATININE	16.13	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	CTROPHOTOMETRY			
UREA/CREATININI	E RATIO: SERUM	34.51	RATIO	
by CALCULATED, SPE		5.04	II / 1	0.00 7.70
URIC ACID: SERUM by URICASE - OXIDAS		5.64	mg/dL	3.60 - 7.70
CALCIUM: SERUM		10.68 <sup>H</sup>	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		0.74		2 20 4 70
PHOSPHOROUS: SE by PHOSPHOMOLYBD	.KUM DATE, SPECTROPHOTOMETRY	3.74	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>				
SODIUM: SERUM		139.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		4.05	mm al/I	2.50 5.00
POTASSIUM: SERUN by ISE (ION SELECTIV		4.05	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	[	104.7	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV				
	ERULAR FILTERATION RATE			
(eGFR): SERUM	ERULAR FILTERATION RATE	115.4		
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.

3. GI haemorrhage.



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CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBA	LA CANTT		
Test Name			Value Ur	nit Biolog	gical Reference interval
8. Reduced muscle m 9. Certain drugs (e.g. <b>INCREASED RATIO (&gt;2</b>	tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed c 0:1) WITH DECR osis.	creatinine production) acocorticoids) ATED CREATININE LEVEL roportionately more th on renal disease.	<b>S:</b> an creatinine) (e.g. obstructiv	e uropathy).	
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DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

Kidney failure

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

<15









	MD (Pathology & Micro	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist		
NAME	: Mr. GARVIT			
AGE/ GENDER	: 25 YRS/MALE	PATIENT ID	: 1711288	
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 042412290003	
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 29/Dec/2024 11:08 AM	
BARCODE NO.	: A1260199	COLLECTION DATE	:29/Dec/2024 04:16PM	
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	<b>REPORTING DATE</b>	: 29/Dec/2024 05:16PM	
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 FR category reported as per KDIGO guideline 2012

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

End Of Report \*\*\*





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

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