



	Dr. Vinay Choj MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD EO & Consultant	(Pathology)
AME	: Mrs. VIMLA RANI			
AGE/ GENDER	: 75 YRS/FEMALE	PATIEN	T ID	: 1619062
<b>COLLECTED BY</b>	:	REG. NO	/LAB NO.	: 012409200005
REFERRED BY	:	REGIST	ATION DATE	: 20/Sep/2024 07:06 AM
BARCODE NO.	:01517298	COLLECT	TION DATE	: 20/Sep/2024 07:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ING DATE	: 20/Sep/2024 12:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN			
Test Name		Value	Unit	Biological Reference interva
GLYCOSYLATED HAEN		HAEMATOLOG DSYLATED HAEMOGL 10 <sup>H</sup>		4.0 - 6.4
GLYCOSYLATED HAEN NHOLE BLOOD <i>by HPLC (HIGH PERFO</i> ESTIMATED AVERAGI	MOGLOBIN (HbA1c): rmance liquid chromatography) E PLASMA GLUCOSE	DSYLATED HAEMOGL	OBIN (HBA1C)	4.0 - 6.4 60.00 - 140.00
SLYCOSYLATED HAEN VHOLE BLOOD <i>by HPLC (HIGH PERFO</i> STIMATED AVERAGI <i>by HPLC (HIGH PERFO</i>	MOGLOBIN (HbA1c): rmance liquid chromatography)	DSYLATED HAEMOGL 10 <sup>H</sup>	OBIN (HBA1C) %	
SLYCOSYLATED HAEN VHOLE BLOOD <i>by HPLC (HIGH PERFO</i> STIMATED AVERAGI <i>by HPLC (HIGH PERFO</i> <u>VTERPRETATION:</u>	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI	DSYLATED HAEMOGL 10 <sup>H</sup> 240.3 <sup>H</sup> IABETES ASSOCIATION (AD	OBIN (HBA1C) % mg/dL A):	60.00 - 140.00
GLYCOSYLATED HAEN VHOLE BLOOD <i>by HPLC (HIGH PERFO</i> STIMATED AVERAGI <i>by HPLC (HIGH PERFO</i> <u>NTERPRETATION:</u>	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP	DSYLATED HAEMOGL 10 <sup>H</sup> 240.3 <sup>H</sup> IABETES ASSOCIATION (AD	OBIN (HBA1C) % mg/dL A): ED HEMOGLOGIB	60.00 - 140.00
SLYCOSYLATED HAEN VHOLE BLOOD by HPLC (HIGH PERFO STIMATED AVERAGI by HPLC (HIGH PERFO NTERPRETATION: F Non dia	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	DSYLATED HAEMOGL 10 <sup>H</sup> 240.3 <sup>H</sup> IABETES ASSOCIATION (AD	OBIN (HBA1C) % mg/dL A): ED HEMOGLOGIB <5.7	60.00 - 140.00
SLYCOSYLATED HAEN VHOLE BLOOD by HPLC (HIGH PERFO STIMATED AVERAGI by HPLC (HIGH PERFO <u>VTERPRETATION:</u> F Non dia At	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	DSYLATED HAEMOGL 10 <sup>H</sup> 240.3 <sup>H</sup> IABETES ASSOCIATION (AD	OBIN (HBA1C) % mg/dL A): ED HEMOGLOGIB <5.7 5.7 - 6.4	60.00 - 140.00
SLYCOSYLATED HAEN VHOLE BLOOD by HPLC (HIGH PERFO STIMATED AVERAGI by HPLC (HIGH PERFO <u>NTERPRETATION:</u> F Non dia At	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years	DSYLATED HAEMOGL 10 <sup>H</sup> 240.3 <sup>H</sup> IABETES ASSOCIATION (AD	OBIN (HBA1C) % mg/dL A): ED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
LYCOSYLATED HAEN /HOLE BLOOD by HPLC (HIGH PERFO STIMATED AVERAGI by HPLC (HIGH PERFO NTERPRETATION: F Non dia At	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	DSYLATED HAEMOGL 10 <sup>H</sup> 240.3 <sup>H</sup> ABETES ASSOCIATION (AD GLYCOSYLAT	OBIN (HBA1C) % mg/dL A): ED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00 (HBAIC) in %
GLYCOSYLATED HAEN VHOLE BLOOD by HPLC (HIGH PERFO STIMATED AVERAGI by HPLC (HIGH PERFO <u>VTERPRETATION:</u> F Non dia At Di	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) tagnosing Diabetes	DSYLATED HAEMOGL 10 <sup>H</sup> 240.3 <sup>H</sup> ABETES ASSOCIATION (AD GLYCOSYLAT	OBIN (HBA1C) % mg/dL A): ED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years y:	60.00 - 140.00 (HBAIC) in % < 7.0
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFO STIMATED AVERAGI by HPLC (HIGH PERFO <u>NTERPRETATION:</u> Non dia At Di	MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DI REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	DSYLATED HAEMOGL 10 <sup>H</sup> 240.3 <sup>H</sup> ABETES ASSOCIATION (AD GLYCOSYLAT	OBIN (HBA1C) % mg/dL A): ED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years y:	60.00 - 140.00 (HBAIC) in %

concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

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.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



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KOS Diagnostic Lab (A Unit of KOS Healthcare)

0 9001 : 2008 CERT	IFIED LAB	1	EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD ( CEO & Consultant	(Pathology)
AME GE/ GENDER OLLECTED BY EFERRED BY	<b>: Mrs. VIMLA RANI</b> : 75 YRS/FEMALE : :	REG.	ENT ID NO./LAB NO. STRATION DATE	: 1619062 <b>: 012409200005</b> : 20/Sep/2024 07:06 AM
ARCODE NO. LIENT CODE. LIENT ADDRESS	: 01517298 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	REPO	ECTION DATE DRTING DATE	: 20/Sep/2024 07:06AM : 20/Sep/2024 10:31AM
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY GLUCOSE RAN		1
GLUCOSE RANDOM by glucose oxidas	(R): PLASMA SE - PEROXIDASE (GOD-POD)	217.04 <sup>H</sup>	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > 0R = 200.0
	an	Jhoop	noi	

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		Chopra y & Microbiology) consultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. VIMLA RANI : 75 YRS/FEMALE : : : 01517298 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	REGIS COLLE REPOI	NT ID 10./LAB NO. 17RATION DATE CTION DATE RTING DATE	: 1619062 <b>: 012409200005</b> : 20/Sep/2024 07:06 AM : 20/Sep/2024 07:06AM : 20/Sep/2024 10:31AM	
Test Name		Value	Unit	Biological Reference interval	
			DAGIO		
CHOLESTEROL TOTAL by CHOLESTEROL OXI		LIPID PROFILE : 149.06	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240	
RIGLYCERIDES: SERI	UM hate oxidase (enzymatic)	241.58 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0	
HDL CHOLESTEROL (E by SELECTIVE INHIBITIC		55.43	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0	
DL CHOLESTEROL: SI by CALCULATED, SPEC		45.31	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0	
NON HDL CHOLESTER by CALCULATED, SPEC		93.63	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0	
VLDL CHOLESTEROL:		48.32 <sup>H</sup>	mg/dL	0.00 - 45.00	
by CALCULATED, SPEC TOTAL LIPIDS: SERUN by CALCULATED, SPEC	1	539.7	mg/dL	350.00 - 700.00	
CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	2.69	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: SERU		0.82	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0	

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Page 3 of 4





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 20/Sep/2024 10:31AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDI	L RATIO: SERUM	4.36	RATIO	3.00 - 5.00

KOS Diagnostic Lab (A Unit of KOS Healthcare)

by CALCULATED, SPECTROPHOTOMETRY

## **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

End Of Report \*\*\*





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