



	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mr. AVTAR SINGH				
AGE/ GENDER	: 52 YRS/MALE	P	ATIENT ID	: 1732236	
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012501230003	
REFERRED BY	:	R	EGISTRATION DATE	: 23/Jan/2025 09:03 AM	
BARCODE NO.	:01524270	C	DLLECTION DATE	: 23/Jan/2025 09:05AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 23/Jan/2025 01:33PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY	280.48 ^H	% mg/dL	4.0 - 6.4 60.00 - 140.00	
	AS PER AMERICA	N DIABETES ASSOCIAT	ΙΟΝ (ΔΠΔ)·		
	REFERENCE GROUP		OSYLATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years		<5.7		
	At Risk (Prediabetes) Diagnosing Diabetes		5.7 - 6.4		
D	lagnosing Diabetes	-	>= 6.5 Age > 19 Years		
			Therapy:	< 7.0	
Therapeut	ic goals for glycemic control	Actions S	uggested:	>8.0	
		Goal of	Age < 19 Years therapy:	<7.5	
2.Since Hb1c reflects lo concentration of HbAl 3.Target goals of < 7.0	ng term fluctuations in blood gluc c. Converse is true for a diabetic pl % may be beneficial in patients w	nly monitoring done to ose concentration, a d reviously under good c ith short duration of di	o assess compliace with th iabetic patient who has re ontrol but now poorly com abetes, long life expectanc	nerapeutic regimen in diabetic patients. cently under good control may still have high	

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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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 23/Jan/2025 01:53PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	DAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMISTI	RY/BIOCHEMIST	'RY
		GLUCOSE FA	ASTING (F)	
		307.6 ^H	mg/dL	NORMAL: < 100.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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. 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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AGE/ GENDER : 52 Y COLLECTED BY : REFERRED BY : BARCODE NO. : 0152	AVTAR SINGH RS/MALE 24270 DIAGNOSTIC LAB	1	PATIENT ID REG. NO./LAB NO.	: 1732236
COLLECTED BY : REFERRED BY : BARCODE NO. : 0153	24270 DIAGNOSTIC LAB	1		
REFERRED BY : BARCODE NO. : 0152	DIAGNOSTIC LAB	J	REG. NO./LAB NO.	04050400000
BARCODE NO. : 0152	DIAGNOSTIC LAB			: 012501230003
	DIAGNOSTIC LAB	(REGISTRATION DATE	: 23/Jan/2025 09:03 AM
CLIENT CODE. : KOS			COLLECTION DATE	: 23/Jan/2025 09:05AM
]	REPORTING DATE	: 23/Jan/2025 11:24AM
CLIENT ADDRESS : 634	9/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TOTAL: SE	RUM	137.13	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIDASE F		157.15	ilig/ uL	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
RIGLYCERIDES: SERUM		174.72 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSPHATE O	XIDASE (ENZYMATIC)	174.78	0	BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> 0R = 500.0$
IDL CHOLESTEROL (DIRI	ECT): SERUM	42.96	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITION				BORDERLINE HIGH HDL: 30.0
				60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERU	JM	59.23	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPECTROPH	IOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.
				BORDERLINE HIGH: 130.0 - 159.0
				HIGH: 160.0 - 189.0
			(15	VERY HIGH: $> OR = 190.0$
NON HDL CHOLESTEROL: by CALCULATED, SPECTROPH		94.17	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.
·, · · · · · · · · · · · · · · · · · ·				BORDERLINE HIGH: 160.0 -
				189.0
				HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
/LDL CHOLESTEROL: SER	CUM	34.94	mg/dL	0.00 - 45.00
by CALCULATED, SPECTROPH	IOTOMETRY	110.00		050.00 700.00
FOTAL LIPIDS: SERUM by CALCULATED, SPECTROPH	IOTOMETRY	448.98	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RAT	IO: SERUM	3.19	RATIO	LOW RISK: 3.30 - 4.40
by CALCULATED, SPECTROPH	IOTOMETRY			AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0
				$\begin{array}{l} \text{MODERATE RISK: 7.10 - 11.0} \\ \text{HIGH RISK: > 11.0} \end{array}$
	24	Λ	1	



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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.38	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		4.07	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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AME : Mr. AVTAR SINGH GE/ GENDER : 52 YRS/MALE PATIENT ID : 1732236 OLLECTED BY : N2 REG. NO./LAB NO. : 012501230003 EEFERRED BY : REGISTRATION DATE : 23/Jan/2025 09:03 AM ARCODE NO. : 01524270 COLLECTION DATE : 23/Jan/2025 09:05AM LIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 23/Jan/2025 11:24AM LIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference interval UREA IREA: SERUM 28.63 mg/dL 10.00 - 50.00			Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
UREA: SERUM 28.63 mg/dL 10.00 - 50.00	GE/ GENDER OLLECTED BY EFERRED BY ARCODE NO. LIENT CODE.	: 52 YRS/MALE : : : 01524270 : KOS DIAGNOSTIC LAB	REG. N REGIS COLLE REPOI	O./LAB NO. FRATION DATE CTION DATE	: 012501230003 : 23/Jan/2025 09:03 AM : 23/Jan/2025 09:05AM
JREA: SERUM 28.63 mg/dL 10.00 - 50.00	Test Name		Value	Unit	Biological Reference interval





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	A B Dr. Vinay Cl		Dr. Yugam	
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REFERRED BY :		REGIS	FRATION DATE	: 23/Jan/2025 09:03 AM
BARCODE NO. : 0152	4270	COLLE	CTION DATE	: 23/Jan/2025 09:05AM
	DIAGNOSTIC LAB		TING DATE	: 23/Jan/2025 11:24AM
CLIENT ADDRESS : 6349	/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CREATINI	NE	
CREATININE: SERUM by ENZYMATIC, SPECTROPHOT	OMETRY	1.04	mg/dL	0.40 - 1.40
		*** End Of Report	* * *	





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