



	MD (Patho	<b>y Chopra</b> logy & Microbiology) & Consultant Pathologist	Dr. Yugam MD ( CEO & Consultant I	Pathology)
NAME	: Mr. GOVINDER PAL SI	NGH		
AGE/ GENDER	: 65 YRS/MALE	PATI	ENT ID	: 1540346
COLLECTED BY	:	REG.	NO./LAB NO.	: 012407060043
REFERRED BY	:	REGI	STRATION DATE	: 06/Jul/2024 02:16 PM
BARCODE NO.	:01512636	COLL	ECTION DATE	: 06/Jul/2024 02:17PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 06/Jul/2024 02:54PM
CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOGLOBIN (HB)		HAEMOGLOB 11.5 <sup>L</sup>	IN (HB) gm/dL	12.0 - 17.0
by CALORIMETRIC		11.5-	gin, az	12.0 17.0
tissues back to the lu A low hemoglobin lev <b>ANEMIA (DECRESED H</b> 1) Loss of blood (trau 2) Nutritional deficier 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemoglo <b>POLYCYTHEMIA (INCR</b> 1) People in higher al 2) Smoking (Secondar 3) Dehydration produ 4) Advanced lung dise 5) Certain tumors	ngs. el is referred to as ANEMIA <b>HAEMOGLOBIN):</b> matic injury, surgery, blee- ncy (iron, vitamin B12, fola lems (replacement of bone l blood cell synthesis by ch obin structure (sickle cell a <b>EASED HAEMOGLOBIN):</b> lititudes (Physiological) ry Polycythemia)	or low red blood count. ding, colon cancer or stomac te) marrow by cancer) emotherapy drugs nemia or thalassemia).	h ulcer)	dys tissues and returns carbon dioxide from t

## NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	<b>Dr. Vinay Cho</b> MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugan MD EO & Consultant	(Pathology)
NAME	: Mr. GOVINDER PAL SINGH			
AGE/ GENDER	: 65 YRS/MALE	PATIENT	T ID	: 1540346
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CLIENT CODE.			ING DATE	. 00/ jui/ 2024 03.34F W
CLIENI ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMDALA CAN I I		
Test Name		Value	Unit	Biological Reference interval
	GL	COSYLATED HAEMOGLO	) DBIN (HBA1C)	
GLYCOSYLATED HAEM		7.4 <sup>H</sup>	%	4.0 - 6.4
WHOLE BLOOD				
ESTIMATED AVERAGE	MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE	165.68 <sup>H</sup>	mg/dL	60.00 - 140.00
	MANCE LIQUID CHROMATOGRAPHY)	103.00	<b>g</b>	
INTERPRETATION:				
		ETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED HEN		n %
	etic Adults >= 18 years		5.7	
	Risk (Prediabetes)		- 6.4	
Dia	gnosing Diabetes		= 6.5	
			19 Years	
		Goals of Therapy:	< 7.0	
		Actions Suggested:	>8.0	
Therapeutic	goals for glycemic control			,
Therapeutic	goals for glycemic control		<b>19 Years</b>	

## 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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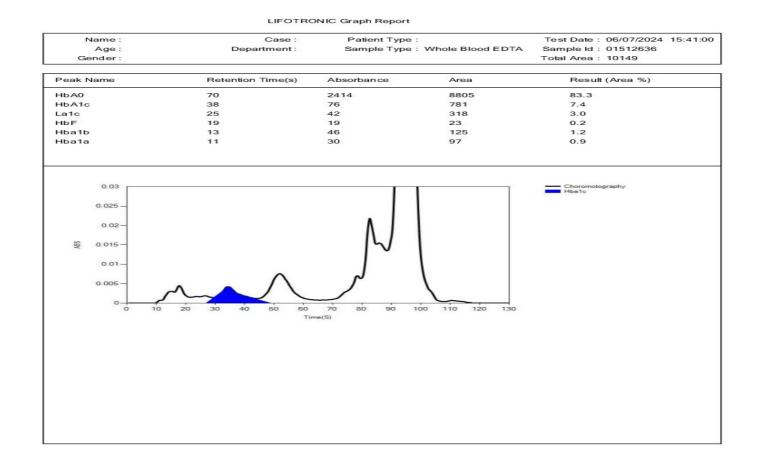


TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Test Name		Value Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT	
	ANA /1 NICHOLCON DOAD AND		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 06/Jul/2024 03:54PM
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	Dr. Vinay Chop	ra I Dr. Yugai	n Chopra





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BARCODE NO.	:01512636		COLLECTION DATE	: 06/Jul/2024 02:17PM
CLIENT CODE.	: KOS DIAGNOSTI	C LAB	REPORTING DATE	: 06/Jul/2024 04:40PM
CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMIST	RY/BIOCHEMISTR	Y
		LIPID PRO	FILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OX		135.1	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SER by GLYCEROL PHOSE		<u>чматіс)</u> 467.32 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL ( by SELECTIVE INHIBIT		29.87 <sup>L</sup>	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		NOT CALCU	LATED 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
VLDL CHOLESTEROL: by calculated, spe		NOT CALCU	LATED mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN	N	NOT CALCU	LATED mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE		4.52 <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
LDL/HDL RATIO: SER by Calculated, spe		NOT CALCU	LATED RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL		15.65 <sup>H</sup>	RATIO	3.00 - 5.00
by CALCULATED, SPE NOTE 2	CIROPHOTOMETRY	WHEN TRIG	SLYCERIDES VALUE >400	mg/dL THE CALCULATED VALUES OF LDL AND

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT	
Test Name		Value Unit	Biological Reference interval
		VLDL ARE NOT RELIABLE	

## **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

## RECHECKED.



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SO 9001:2008 CERT		EXCEL	LENCE IN HEALTHCARE	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL/	A CANTT		
Test Name	Va	alue	Unit	Biological Reference interval
		UREA		
UREA: SERUM	4 IATE DEHYDROGENASE (GLDH)	0.91	mg/dL	10.00 - 50.00
		Juopra		
OS Molecular Lab: IInd	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY , Nicholson Road, Ambala Cantt -133 001, Har Floor, Parry Hotel, Staff Road, Opp. GPO, Amb	yana bala Cantt -133 001, Hary	DGY)	
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CLIENT CODE.	: 6349/1, NICHOLSON ROAD		AING DATE	. 00/ Jul/ 2024 04.55r M	
Test Name		Value	Unit	Biological Reference interv	val
L		CREATINI	<b>VF</b>		
CREATININE: SERUN by enzymatic, spec		1.95 <sup>H</sup>	mg/dL	0.40 - 1.40	
by ENZTMATIC, SPEC	IROPHOTOMETRY				
		Λ			
	Bor	yhops	<i>a</i> ,		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
Test Marile		Value	onne	biological Reference interva
		CLINICAL PATH		
	MICROAL		OLOGY	
MICROALBUMIN: RA	ANDOM URINE	CLINICAL PATH	OLOGY	
MICROALBUMIN: R. by spectrophotol CREATININE: RANDO	ANDOM URINE METRY OM URINE	CLINICAL PATH BUMIN/CREATININE R	OLOGY ATIO - RANDOM	URINE
MICROALBUMIN: RA by spectrophotol CREATININE: RANDO by spectrophoton	ANDOM URINE METRY OM URINE METRY	CLINICAL PATH BUMIN/CREATININE R 297.42 <sup>H</sup> 73.36	OLOGY ATIO - RANDOM mg/L	URINE 0 - 25
MICROALBUMIN: R by spectrophotol CREATININE: RAND by spectrophotol MICROALBUMIN/CI RANDOM URINE by spectrophotol	ANDOM URINE METRY OM URINE METRY REATININE RATIO -	CLINICAL PATH BUMIN/CREATININE R 297.42 <sup>H</sup>	OLOGY ATIO - RANDOM mg/L mg/dL	URINE 0 - 25 20 - 320
MICROALBUMIN: R by spectrophotol CREATININE: RAND by spectrophotol MICROALBUMIN/CI RANDOM URINE by spectrophotol	ANDOM URINE METRY OM URINE METRY REATININE RATIO -	CLINICAL PATH BUMIN/CREATININE R 297.42 <sup>H</sup> 73.36	OLOGY ATIO - RANDOM mg/L mg/dL	URINE 0 - 25 20 - 320
MICROALBUMIN: R by spectrophotol CREATININE: RAND by spectrophotol MICROALBUMIN/CI RANDOM URINE by spectrophotol INTERPRETATION:-	ANDOM URINE METRY OM URINE METRY REATININE RATIO - METRY NORMAL: mg/L	CLINICAL PATH BUMIN/CREATININE R 297.42 <sup>H</sup> 73.36	OLOGY ATIO - RANDOM mg/L mg/dL mg/g	URINE 0 - 25 20 - 320

Long standing un-treated Diabetes and Hypertension can lead to renal dysfunction. 2. Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure. 3. Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients. 4. Microalbuminuria is the condition when urinary albumin excre tion is between 30-300 mg & above this it is called as macroalbuminuria, the presence of which indicates particular disease disease.

 5. Microalbuminuria is the condition when dimary abdition excrements between so-sooning & above this it is called as macroalbuminuria, the presence of which indicates serious kidney disease.
 5. Microalbuminuria is not only associated with kidney disease but of cardiovascular disease in patients with dibetes & hypertension.
 6. Microalbuminuria reflects vascular damage & appear to be a marker of of early arterial disease & endothelial dysfunction.
 NOTE:- IF A PATIENT HAS = 1+ PROTEINURIA (30 mg/dl OR 300 mg/L) BY URINE DIPSTICK (URINEANALYSIS), OVERT PROTEINURIA IS PRESENT AND TESTING FOR MICROALBUMIN IS INAPPROPIATE. IN SUCH A CASE, URINE PROTEIN:CREATININE RATIO OR 24 HOURS TOTAL URINE MICROPROTEIN IS Appendiate. APPROPIATE

Rechecked

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





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