





LABORATORY TEST REPORT

Patient Name Mr AVTAR SINGH Age: 54 Year(s) Gender: Male

Sample ID : 20531067

Sample Type : WB EDTA Patient ID : 2345899

Ref. Doctor : NA Ref. Customer : NA

Lab Code : CPL-HR-221

Sample Collection Date : 2024-09-10 00:00

Registration Date : 2024-09-11 07:47

Approved Date :

CLINICAL BIOCHEMISTRY

1	Test Description	Result	Units	Biological Reference Ranges				
O	HbA1c (Glycated Haemoglobin) (Method: HPLC)							
	Glycated Haemoglobin (A1c)	5.4	%	< 6 : Non Diabetic 6-7 : Good Control 7-8 : Weak Control >8 : Poor Control				
	Estimated average glucose (eAG)	108.28	mg/dL	70 - 136				

INTERPRETATION

Reference Group	HbA1c in %	HbA1c (%)	
Non diabetic adults >=18 years	< 5.7	4	
At risk (Prediabetes)	5.7 - 6.4	5	
Diagnosing Diabetes	>= 6.5	6	
Therapeutic goals for glycemic	Age > 19 years	7	
control	Goal of therapy: < 7.0	8	
	Action suggested: > 8.0	9	
	Age < 19 years	10	
	Goal of therapy: < 7.5	11	
		12	

HbA1c (%)	Mean Plasma Glucose (mg/dL)
4	68
5	97
6	126
7	154
8	183
9	212
10	240
11	269
12	298

Note:

HbA1c provides an index of average blood glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

--End of Report--





Dr Sapna Vyakaranam MD Biochemist

Since HbA1c reflects long term fluctuations in the blood glucose concentration, a diabetic patient who is recently under good control may still have a high concentration of HbA1c. Converse is true for a diabetic previously under good control but now poorly controlled.

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, targeting a goal of < 7.0 % may not be appropriate.
 Comments







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Advise

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HEMATOLOGY

Test Description	Result	Units	Biological Reference Ranges			
Hemogram						
Hemoglobin (Method: SLS/Photometric)	<u>11.2</u>	gms%	13.0-17.0			
Erythrocyte Count (RBC Count) (Method: Hydrodynamically focused DC detection method)	<u>4.0</u>	mil/cumm	4.5-5.5			
PCV-Packed Cell Volume (Hematocrit) (Method: RBC pulse height detection method)	<u>34.1</u>	%	40-50			
Platelet Count (Method: Hydrodynamically focused DC detection method/ Microscopy)	1.69	lakh/Cumm	1.50-4.10			
Erythrocyte Indices (Method: Calculated/Automated 5 Part Coulter)						
Mean Corpuscular Volume(MCV) (Method: Calculated)	84.4	FL	83-101			
Mean Corpuscular Hemoglobin(MCH) (Method: Calculated)	27.6	pg	27-32			
Mean Corpuscular Hemoglobin Concentration(MCHC) (Method: Calculated)	32.7	gm%	31.5-34.5			
Red blood cell Distribution Width(RDW-CV) (Method: Calculated)	<u>16.7</u>	%	11.6-14.0			
Total Leukocyte & Differential Count (Method: Flowcytometry method/ Microscopy)						
Total Leucocyte Count(WBC) (Method: Cell Counter/Miccroscopy)	6350	cells/Cumm	4000-10000			
Neutrophils (Method: Cell Counter/Miccroscopy)	70	%	40-80			
Lymphocytes (Method: Cell Counter/Miccroscopy)	24	%	20-40			
Eosinophils (Method: Cell Counter/Miccroscopy)	02	%	01-06			
Monocytes (Method: Cell Counter/Miccroscopy)	04	%	02-10			
Basophils (Method: Cell Counter/Miccroscopy)	00	%	00-01			
MICROSCOPIC BLOOD PICTURE						
RBC Morphology	Normocytic Normochromic Cells Normal in Morphology Adequate Normal Study					
WBC Morphology						
Platelet Morphology						
Impression						

--End of Report--



Correlate Clinically

mm/Hour

21



12

Erythrocyte Sedimentation Rate (ESR)

(Method: Modified Westergren's method)







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HEMATOLOGY

Test Description Result Units Biological Reference Ranges



