



MD (ay Chopra ology & Microbiology) & Consultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
NAME	: Mrs. LATIKA CHOPRA	l l		
AGE/ GENDER	: 36 YRS/FEMALE	PATI	ENT ID	: 1677897
COLLECTED BY	: SURJESH	REG. I	NO./LAB NO.	: 012411210016
REFERRED BY	:	REGIS	STRATION DATE	: 21/Nov/2024 09:24 AM
BARCODE NO.	:01521187	COLL	ECTION DATE	: 21/Nov/2024 09:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 21/Nov/2024 10:10AM
CLIENT ADDRESS	: 6349/1, NICHOLSON F	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
tissues back to the lur A low hemoglobin leve	ngs. el is referred to as ANEMI.	od cells that carries oxygen fror A or low red blood count.	m the lungs to the bo	odys tissues and returns carbon dioxide from t
 2) Nutritional deficier 3) Bone marrow probl 4) Suppression by red 5) Kidney failure 6) Abnormal hemoglo 	matic injury, surgery, blee icy (iron, vitamin B12, fol- ems (replacement of bone blood cell synthesis by cl bin structure (sickle cell a	e marrow by cancer) hemotherapy drugs	n ulcer)	
 People in higher al Smoking (Secondar Dehydration produ Advanced lung dise Certain tumors 			oconcentration	
7) Abuse of the drug e	rythropoetin (Epogen) by production of red blood	athletes for blood doping purp	ooses (increasing the	amount of oxygen available to the body by

KOS Diagnostic Lab (A Unit of KOS Healthcare)

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cho MD (Pathology & 1 Chairman & Const	Microbiology)	Dr. Yugan MD CEO & Consultant	(Pathology)
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BARCODE NO.	: 01521187	СО	LLECTION DATE	: 21/Nov/2024 09:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 21/Nov/2024 01:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HA			IOGLOBIN (HBA1)	C)
WHOLE BLOOD by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE	5.4 108.28	% mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY) IGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	108.28	mg/dL	
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVERA by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) IGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN E	108.28 DIABETES ASSOCIATIO	mg∕dL DN (ADA):	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVERA by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) IGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN E REFERENCE GROUP	108.28 DIABETES ASSOCIATIO	mg/dL DN (ADA): DSYLATED HEMOGLOGIB	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVERA by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN E REFERENCE GROUP abetic Adults >= 18 years	108.28 DIABETES ASSOCIATIO	mg/dL DN (ADA): DSYLATED HEMOGLOGIB <5.7	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVERA by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN E REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	108.28 DIABETES ASSOCIATIO	mg/dL DN (ADA): DSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVERA by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN E REFERENCE GROUP abetic Adults >= 18 years	108.28 DIABETES ASSOCIATIO	mg/dL DN (ADA): DSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVERA by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN E REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	108.28 DIABETES ASSOCIATIO	mg/dL DN (ADA): DSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVERA by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN E REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	108.28 DIABETES ASSOCIATIO	mg/dL DN (ADA): DSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years Therapy: uggested:	60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFO. ESTIMATED AVERA by HPLC (HIGH PERFO. INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN E REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) biagnosing Diabetes	108.28 DIABETES ASSOCIATIO GLYCO Goals of	mg/dL DN (ADA): DSYLATED HEMOGLOGIB <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years Therapy: Iggested: Age < 19 Years	60.00 - 140.00 (HBAIC) in %

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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





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BARCODE NO.					
CLIENT CODE.					
CLIENT ADDRESS	: 6349/1, NICHOLS	SON ROAD, AMBALA CANTT			
Test Name	_	Value	Unit	Biological Reference interval	
		CLINICAL CHEMIST	RY/BIOCHEMIST	'RY	
		GLUCOSE F	ASTING (F)		
GLUCOSE FASTIN	G (F): PLASMA Se - peroxidase (god-i	91.17 POD)	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0	

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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Fest Name		Value	Unit	Biological Reference interval
		VITAM	IINS	
	V	ITAMIN D/25 HYDI	ROXY VITAMIN D	3
	DROXY VITAMIN D3): SEI escence immunoassay)	RUM 38.1	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
NTERPRETATION:				TOXICITY: > 100.0
DEFI	CIENT:	< 20	n	
DEFI	FICIENT:	21 - 29	n	TOXICITY: > 100.0 g/mL
INSUFI PREFFERI INTOXI I.Vitamin D compour	FICIENT: ED RANGE: CATION:	21 - 29 30 - 100 > 100 <i>y</i> ergocalciferol (from plan	n n n ts, Vitamin D2), or cho	TOXICITY: > 100.0





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Page 4 of 5





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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Fest Name		Value	Unit	Biological Reference interval	
<u>NTERPRETATION:-</u> INCREAS	SED VITAMIN B12	DECREASED VITAMIN B12			
1.Ingestion of Vitan	nin C	1.Pregnancy			
2.Ingestion of Estro		2.DRUGS: Aspirin, Anti-convulsants, Colchicine		, Colchicine	
3.Ingestion of Vitamin A		3.Ethanol Igestion			
4.Hepatocellular injury		4. Contraceptive Harmones			
5.Myeloproliferative disorder		5.Haemodialysis 6. Multiple Myeloma			
6.Uremia .Vitamin B12 (cobalamin) is necessary for hematopoies					
2.In humans, it is obt	tained only from animal protein	s and requires intrinsic fa	actor (IF) for absorp	ition. n and returning it to the liver; very little is	
excreted.		, ,			
	ency may be due to lack of IF sec I intestinal diseases).	retion by gastric mucosa	(eg, gastrectomy, g	astric atrophy) or intestinal malabsorption (e	
		tic anemia, glossitis, perij	oheral neuropathy,	weakness, hyperreflexia, ataxia, loss of	
proprioception, poor	coordination, and affective beh	avioral changes. These m	nanifestations may	occur in any combination; many patients have	
	ts without macrocytic anemia.	a ana alao alaurata dia 19	main D10 defieles		
	nic acid and homocysteine level			states. al cause of vitamin B12 malabsorption.	
				B12. The most sensitive test for vitamin B12	

NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.

*** End Of Report ***





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