



	<b>Dr. Vinay Ch</b> MD (Pathology & Chairman & Con		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. MANJEET KAUR BAGG	4		
AGE/ GENDER	: 35 YRS/FEMALE	PA	TIENT ID	: 1760329
COLLECTED BY	: SURJESH	RE	G. NO./LAB NO.	: 012502170052
REFERRED BY		RF	GISTRATION DATE	: 17/Feb/2025 05:18 PM
BARCODE NO.	: 01525676		LLECTION DATE	: 17/Feb/2025 05:21PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 17/Feb/2025 06:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAE WHOLE BLOOD	MOGLOBIN (HbA1c):	5.1	<b>IOGLOBIN (HBA1C)</b> %	4.0 - 6.4
•		99.67	mg/dL	60.00 - 140.00
ESTIMATED AVERAG	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)			60.00 - 140.00
ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION:	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA	A):	
ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP	ETES ASSOCIATION (ADA		
ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA	A): ED HEMOGLOGIB (HBAIC) ii	
ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years	ETES ASSOCIATION (ADA	A): ED HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5	
ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA GLYCOSYLATE	A): ED HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	n %
ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	ETES ASSOCIATION (ADA GLYCOSYLATE Goals of Therapy	A): ED HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years /: < 7.0	n %
ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia	E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years Risk (Prediabetes)	ETES ASSOCIATION (ADA GLYCOSYLATE	A): ED HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years /: < 7.0	n %

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 appropiate. 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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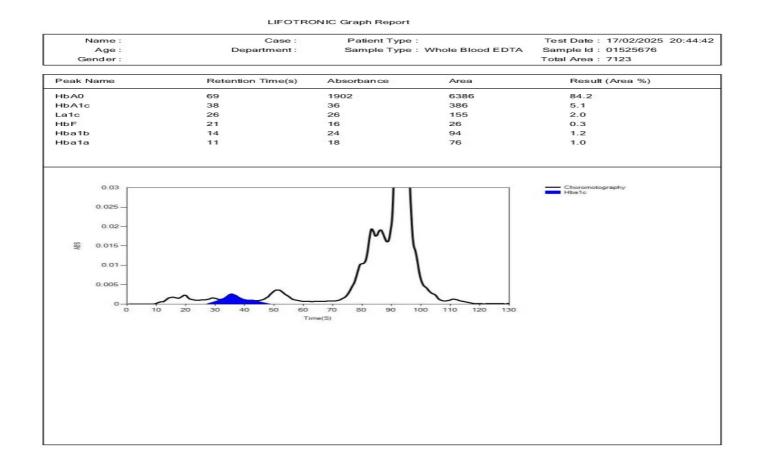
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	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value Unit	Biological Reference interval	







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLIN	ICAL CHEMIST	<b>RY/BIOCHEMIST</b>	'RY
		<b>GLUCOSE POST</b>	PRANDIAL (PP)	
	ANDIAL (PP): PLASMA	123.8	mg/dL	NORMAL: < 140.00

**IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:** 1. A post-prandial plasma glucose level below 140 mg/dl is considered normal. 2. A post-prandial glucose level between 140 - 200 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 post-prandial plasma glucose level of above 200 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD, AMBA	Value	Unit	Biological Reference interval
		ENDOCE		
	THM		RINOLOGY	
		DID FUNCT	TION TEST: TOTAL	
	NE (T3): SERUM			0.35 - 1.93
by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCT	TION TEST: TOTAL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) SERUM IESCENT MICROPARTICLE IMMUNOASSAY) ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCT 1.19	<b>FION TEST: TOTAL</b> ng/mL	
THYROXINE (T4): 5 by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) SERUM IESCENT MICROPARTICLE IMMUNOASSAY) ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	910 FUNCT 1.19 9.37	<b>FION TEST: TOTAL</b> ng/mL μgm/dL	4.87 - 12.60

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

## LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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Test Name		Value Unit	t	<b>Biological Reference interva</b>		
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECO	OMMENDATIONS OF TSH LE	VELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

## **INCREASED TSH LEVELS:**

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester

\*\*\* End Of Report \*





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