



	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam MD CEO & Consultant	(Pathology)
IAME	: Mrs. JASBIR KAUR			
AGE/ GENDER	: 55 YRS/FEMALE	PATI	ENT ID	: 1642447
COLLECTED BY	:	REG.	NO./LAB NO.	: 012410140032
REFERRED BY	:	REGI	STRATION DATE	: 14/Oct/2024 10:31 AM
BARCODE NO.	: 01518875	COLI	ECTION DATE	: 14/Oct/2024 10:32AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		DRTING DATE	: 14/Oct/2024 03:54PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	HAEMATOI VCOSYLATED HAEMO		
GLYCOSYLATED HAEMOGLOBIN (HbA1c): NHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)		5.6	%	4.0 - 6.4
ESTIMATED AVERAGE P by HPLC (HIGH PERFORM INTERPRETATION:	PLASMA GLUCOSE IANCE LIQUID CHROMATOGRAPHY)	114.02	mg/dL	60.00 - 140.00
<u>internet net net net net net net net net net </u>	AS PER AMERICAN DIAF	BETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in		1 %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)		5.7 - 6.4	
Diaç	gnosing Diabetes		>= 6.5	
			ge > 19 Years	
Therapeutic	goals for glycemic control	Goals of Therapy: Actions Suggested:	< 7.0	
merupeutic	gouis for gryceniie control		ge < 19 Years	
		Goal of therapy: <7.5		

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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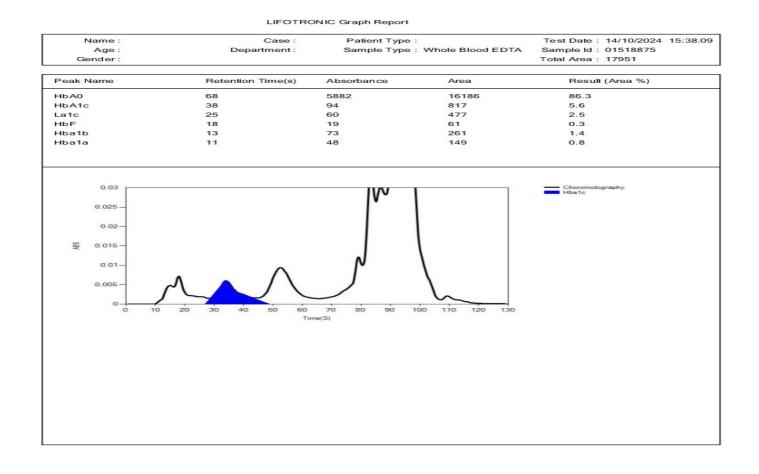
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			/
Test Name		Value Unit	Biological Reference interval







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	MD (Pathology & Mi	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n <b>Chopra</b> (Pathology) : Pathologist
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 14/Oct/2024 12:05PM
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD, AM	Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	TH	(ROID FUNG	CTION TEST: TOTAL	
TRIIODOTHYRONINE (T3): SERUM 0.785 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			ng/mL	0.35 - 1.93
THYROXINE (T4): SERUM 6.21 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels bet	tween 2-4 a.m an imulates the pro	duction and secretion of the me	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of the tabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

CLINICAL CONDITION	T3	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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, 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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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<b>REFERRED BY</b>	:			<b>REGISTRATION DAT</b>	<b>FE</b> : 14/Oct/20	024 10:31 AM
BARCODE NO.	:0151887	õ		COLLECTION DATE	:14/0ct/20	024 10:32AM
CLIENT CODE.	: KOS DIAC	GNOSTIC LAB		REPORTING DATE	:14/0ct/20	024 12:05PM
CLIENT ADDRESS	: 6349/1, 1	NICHOLSON ROAD,	AMBALA CANTT			
Test Name			Value	Unit	Bi	ological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	

0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
RECOM	MENDATIONS OF TSH LE	VELS DURING PREGN	IANCY ( µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.35 - 1.93 0.35 - 1.93 RECOMI 1st Trimester 2nd Trimester	0.35 - 1.9311 - 19 Years0.35 - 1.93> 20 Years (Adults)RECOMMENDATIONS OF TSH LE1st Trimester2nd Trimester2nd Trimester	0.35 - 1.93         11 - 19 Years         4.87 - 13.20           0.35 - 1.93         > 20 Years (Adults)         4.87 - 12.60           RECOMMENDATIONS OF TSH LEVELS DURING PREGN           1st Trimester         2nd Trimester	0.35 - 1.93         11 - 19 Years         4.87 - 13.20         11 - 19 Years           0.35 - 1.93         > 20 Years (Adults)         4.87 - 12.60         > 20 Years (Adults)           RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY ( μIU/mL)           1st Trimester         0.10 - 2.50           2nd Trimester         0.20 - 3.00	

## 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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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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