

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		& Microbiology) nsultant Pathologist	MD CEO & Consultant	(Pathology) : Pathologist
VAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. JAI PAL</b> : 65 YRS/MALE : SURJESH : : 01516537 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	REG. I REGIS COLLI REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE RTING DATE	: 1605984 <b>: 012409080021</b> : 08/Sep/2024 09:00 AM : 08/Sep/2024 09:05AM : 08/Sep/2024 09:29AM
Test Name		Value	Unit	Biological Reference interval
RH FACTOR TYPE by SLIDE AGGLUTINAT	TON	POSITIVE		



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	MD (Pathology &	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n <b>Chopra</b> (Pathology) t Pathologist
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AGE/ GENDER	: 65 YRS/MALE	]	PATIENT ID	: 1605984
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<b>REFERRED BY</b>	:	]	<b>REGISTRATION DATE</b>	:08/Sep/202409:00 AM
BARCODE NO.	:01516537		COLLECTION DATE	: 08/Sep/2024 09:05AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	]	REPORTING DATE	: 08/Sep/2024 01:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLY	COSYLATED HA	EMOGLOBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD	NOGLOBIN (HbA1c):	5.3	%	4.0 - 6.4
ESTIMATED AVERAGE		105.41	mg/dL	60.00 - 140.00
	AS PER AMERICAN			
REFERENCE GROUP		GL	YCOSYLATED HEMOGLOGIB	(HBAIC) in %
Non diabetic Adults >= 18 years		/	<5.7	
At Risk (Prediabetes) Diagnosing Diabetes			<u>5.7 - 6.4</u> >= 6.5	
U		-	Age > 19 Years	
		Goals	of Therapy:	< 7.0
Therapeut	ic goals for glycemic control		Suggested:	>8.0
			Age < 19 Years	
		Goal o	of therapy:	<7.5

## 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
Test Name		Value ENDOCRINO		Biological Reference interval	
Test Name			DLOGY	Biological Reference interval	
TRIIODOTHYRONIN		ENDOCRING THYROID FUNCTION 0.972	DLOGY	Biological Reference interval	
TRIIODOTHYRONIN by CMIA (CHEMILUMIR	NESCENT MICROPARTICLE IMMUNO.	ENDOCRING THYROID FUNCTION 0.972 ASSAY)	DLOGY N TEST: TOTAL ng/mL	0.35 - 1.93	
TRIIODOTHYRONINI by cmia (chemilumit THYROXINE (T4): SE	NESCENT MICROPARTICLE IMMUNO.	ENDOCRING THYROID FUNCTION 0.972 ASSAY) 6.78	DLOGY N TEST: TOTAL		
TRIIODOTHYRONINI by cmia (chemilumii THYROXINE (T4): SE by cmia (chemilumii THYROID STIMULAT	NESCENT MICROPARTICLE IMMUNO. RUM VESCENT MICROPARTICLE IMMUNO. TING HORMONE (TSH): SERUM	ENDOCRING THYROID FUNCTION 0.972 ASSAY) 6.78 ASSAY) 3.568	DLOGY N TEST: TOTAL ng/mL	0.35 - 1.93	
TRIIODOTHYRONINI by cmia (chemilumii THYROXINE (T4): SE by cmia (chemilumii THYROID STIMULAT	NESCENT MICROPARTICLE IMMUNO, RUM NESCENT MICROPARTICLE IMMUNO, TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNO,	ENDOCRING THYROID FUNCTION 0.972 ASSAY) 6.78 ASSAY) 3.568	DLOGY N TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60	

overproduction(hyperthyroidism) of T4 and/or T3.

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 levies 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 Name		Value Unit	Biological Reference int			
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	
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	MMENDATIONS OF TSH L	EVELS 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, 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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