



GE/ GENDER : 6 OLLECTED BY : 5 EFERRED BY : ARCODE NO. : 6 LIENT CODE. : 1 LIENT ADDRESS : 6	<b>Mr. P.S MATTA</b> 35 YRS/MALE 5URJESH 01513168 KOS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAD, A	F F C F	ATIENT ID EEG. NO./LAB NO. EEGISTRATION DATE COLLECTION DATE EEPORTING DATE	: 1549124 <b>: 012407150022</b> : 15/Jul/2024 09:06 AM : 15/Jul/2024 09:26AM : 15/Jul/2024 02:39PM
COLLECTED BY       : S         REFERRED BY       :         BARCODE NO.       : C         CLIENT CODE.       : H         CLIENT ADDRESS       : C	SURJESH 01513168 KOS DIAGNOSTIC LAB	F F C F	EG. NO./LAB NO. EGISTRATION DATE OLLECTION DATE	<b>: 012407150022</b> : 15/Jul/2024 09:06 AM : 15/Jul/2024 09:26AM
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	3349/1, NICHOLSON ROAD, A	AMBALA CANTT		. 1 J/ JUI/ 2024 02.39F WI
Test Name				
		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION:		6.7 <sup>H</sup> 145.59 <sup>H</sup>	% mg/dL	4.0 - 6.4 60.00 - 140.00
	AS PER AMERICAN DIABI			
	NCE GROUP	GLYCOSYL	ATED HEMOGLOGIB (HBAIC) i	n %
	Adults >= 18 years		<5.7	
,	At Risk (Prediabetes)		5.7 - 6.4	
Diagnos	ing Diabetes		>= 6.5	
			Age > 19 Years	
Thorapoutic goal	s for alucomic control	Goals of Thera		
merapeutic goals	s for glycemic control	Actions Sugges		)
		Goal of thera	Age < 19 Years	

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.

appropriate. 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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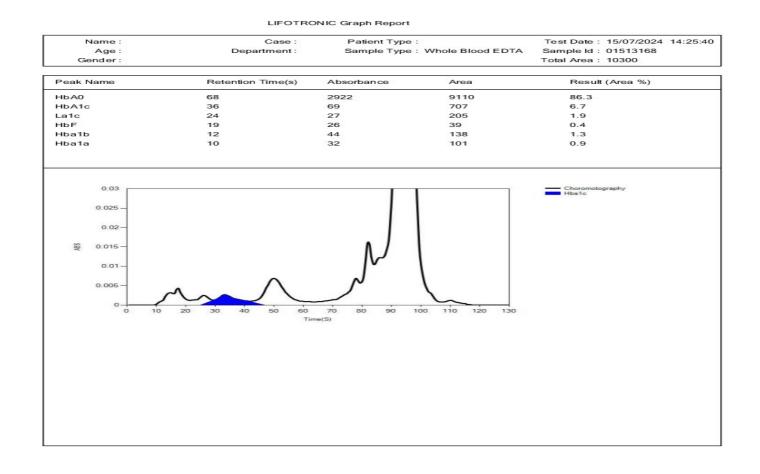








	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mr. P.S MATTA		
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1549124
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT	
Test Name		Value Unit	<b>Biological Reference interval</b>







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CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>		: 15/Jul/2024 01:00PM	
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Test Name		Value	Unit	Biological Reference interval	
	CLIN	ICAL CHEMISTR	Y/BIOCHEMISTR	Y	
	GLUCOS	E FASTING (F) AN	D POST PRANDIAL	(PP)	
		04.77			
GLUCOSE FASTING (I by GLUCOSE OXIDAS	F): PLASMA E - PEROXIDASE (GOD-POD)	91.77	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0	
by GLUCOSE OXIDAS	E - PEROXIDASE (GOD-POD)	91.77 147.52 <sup>H</sup>	mg/dL mg/dL	PREDIABETIC: 100.0 - 125.0	

## IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

 A fasting plasma glucose below 100 mg/dL and post-prandial plasma glucose level below 140 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl and post-prandial plasma glucose level between 140 - 200 mg/dL is considered as glucose intolerant or pre diabetic. 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 and post-prandial plasma glucose level 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





	MD (Pathology & I	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n <b>Chopra</b> (Pathology) Pathologist
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Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	TH	HYROID FUNC	TION TEST: TOTAL	
TRIIODOTHYRONINE (T3): SERUM 0.97 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		0.978 SAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM NESCENT MICROPARTICLE IMMUNOASS	8.06 SAY)	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	circadian variation, reaching peak levels b measured serum TSH concentrations.TSH	netween 2-4 a.m an stimulates the pro	duction and secretion of the me	0.35 - 5.50 m. The variation is of the order of 50%. Hence time of a etabolically 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 Name			Value		:	Biological Reference interva
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	
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PREC	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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