



AGE/ GENDER COLLECTED BY	: 35 YRS/FEMALE					
		PATI	ENT ID	: 1707286		
FFFDDED DV	:	<b>REG. NO./LAB NO.</b>		: 012412240004		
KEFEKKED BY	FERRED BY		STRATION DATE	: 24/Dec/2024 08:52 AM		
BARCODE NO.	: 01522908	COLI	ECTION DATE	: 24/Dec/2024 09:02AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 24/Dec/2024 02:16PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT				
Test Name		Value	Unit	<b>Biological Reference interval</b>		
		НАЕМАТО	LOGY			
	GLYCO	DSYLATED HAEMO				
NACONAL AREP TIC						
	EMOGLOBIN (HbA1c):	5.8	%	4.0 - 6.4		
WHOLE BLOOD		5.8	%	4.0 - 6.4		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA( by HPLC (HIGH PERFOR	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	5.8 119.76	% mg/dL	4.0 - 6.4 60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA( by HPLC (HIGH PERFOR	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)		mg/dL			
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR INTERPRETATION: R	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	119.76 DIABETES ASSOCIATION	mg/dL (ADA): /LATED HEMOGLOGIB	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR <u>NTERPRETATION:</u> R Non dia	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	119.76 DIABETES ASSOCIATION	mg/dL (ADA): /LATED HEMOGLOGIB <5.7	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR INTERPRETATION: R Non dia At	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	119.76 DIABETES ASSOCIATION	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR INTERPRETATION: R Non dia At	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	119.76 DIABETES ASSOCIATION	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR INTERPRETATION: R Non dia At	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	119.76 DIABETES ASSOCIATION GLYCOS	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR INTERPRETATION: R Non dia At Di	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	119.76 DIABETES ASSOCIATION	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy:	60.00 - 140.00 (HBAIC) in %		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR INTERPRETATION: R Non dia At Di	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	119.76 DIABETES ASSOCIATION GLYCOS Goals of The	mg/dL (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: ested: Age < 19 Years	60.00 - 140.00 (HBAIC) in %		

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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		y & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
IAME	: Mrs. PREETI			
AGE/ GENDER	: 35 YRS/FEMALE	PATI	ENT ID	: 1707286
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REFERRED BY	:	REGI	STRATION DATE	: 24/Dec/2024 08:52 AM
BARCODE NO.	: 01522908	COLI	ECTION DATE	: 24/Dec/2024 09:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	: 24/Dec/2024 02:54PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY	/BIOCHEMIST	RY
		GLUCOSE FAS	ГING (F)	

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.

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	MD (Pathology	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		<b>m Chopra</b> D (Pathology) nt Pathologist
NAME	: Mrs. PREETI			
AGE/ GENDER	: 35 YRS/FEMALE		PATIENT ID	: 1707286
COLLECTED BY	:		REG. NO./LAB NO.	:012412240004
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 24/Dec/2024 08:52 AM
BARCODE NO.	: 01522908		COLLECTION DATE	: 24/Dec/2024 09:02AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 24/Dec/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT'	Т	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	Т	HYROID FUN	CTION TEST: TOTAI	
TRIIODOTHYRONII	NE (T3): SERUM	1.29 DASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S	SERUM SESCENT MICROPARTICLE IMMUNO	7.98 DASSAY)	µgm/d	L 4.87 - 12.60
	TING HORMONE (TSH): SE		µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT. <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the i triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the p	roduction and secretion of the	pm. The variation is of the order of 50%.Hence time of th metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or
CLINICAL CONDITION	Т3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lo	ow Normal	Normal or Low Normal	High

## LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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)		THYROX	INE (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	

Increased

Normal or High Normal





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Test Name		Value	Unit		<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	
	RECON	/MENDATIONS OF TSH	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, 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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