PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

🔽 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

CE / CENDED						
AGE/ GENDER	NDER : 65 YRS/FEMALE PATIENT		PATIENT ID	: 1659853		
DLLECTED BY :			REG. NO./LAB NO.	: 122411040003		
EFERRED BY			REGISTRATION DATE	: 04/Nov/2024 08:44 AM		
ARCODE NO. : 12505419			COLLECTION DATE	: 04/Nov/2024 08:53AM		
CLIENT CODE.		R JAIN HEALTHCARE INSTITUTE REPORTING DATE RPUR, HISSAR ROAD, AMBALA CITY - HARYANA		: 04/Nov/2024 05:34PM		
CLIENT ADDRESS				.04/N0V/202405.54PM		
Test Name		Value	Unit	Biological Reference interva		
		HAEM	ATOLOGY			
	GLYCO	SYLATED HA	AEMOGLOBIN (HBA1	1C)		
GLYCOSYLATED HAI	GLYCO EMOGLOBIN (HbA1c):	SYLATED HA 6.5 ^H	AEMOGLOBIN (HBA1 %	1C) 4.0 - 6.4		
WHOLE BLOOD	EMOGLOBIN (HbA1c):					
WHOLE BLOOD by HPLC (HIGH PERFOR	EMOGLOBIN (HbA1c):	6.5 ^H	%	4.0 - 6.4		
WHOLE BLOOD by hplc (high perfor ESTIMATED AVERAG	EMOGLOBIN (HbA1c):					
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	6.5^H 139.85	% mg/dL	4.0 - 6.4		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA(by HPLC (HIGH PERFOR NTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE	6.5 ^H 139.85	% mg/dL ATION (ADA):	4.0 - 6.4 60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA(by HPLC (HIGH PERFOR NTERPRETATION: R	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D	6.5 ^H 139.85	% mg/dL	4.0 - 6.4 60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA(by HPLC (HIGH PERFOR NTERPRETATION: R R Non dia	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP	6.5 ^H 139.85	% mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGI	4.0 - 6.4 60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR NTERPRETATION: R R Non dia At	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP betic Adults >= 18 years	6.5 ^H 139.85	% mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGI <5.7	4.0 - 6.4 60.00 - 140.00		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR NTERPRETATION: R R Non dia At	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP betic Adults >= 18 years Risk (Prediabetes)	6.5 ^H 139.85 NABETES ASSOCI	% mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGI <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 B (HBAIC) in %		
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERAG by HPLC (HIGH PERFOR NTERPRETATION: R Non dia At Di	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D EFERENCE GROUP betic Adults >= 18 years Risk (Prediabetes) agnosing Diabetes	6.5 ^H 139.85 DIABETES ASSOCI	% mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGI <5.7 5.7 – 6.4 >= 6.5 Age > 19 Years 5 of Therapy:	4.0 - 6.4 60.00 - 140.00 B (HBAIC) in %		
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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.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)**





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NAME	: Mrs. PREM BALA JAIN					
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CLIENT CODE.	CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE		DRTING DATE	:04/Nov/202402:00PM		
CLIENT ADDRESS	NT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA		A			
Test Name						
Test Name		Value	Unit	Biological Reference interva		
Test Name		Value ENDOCRIN		Biological Reference interva		
Test Name		ENDOCRIN		Biological Reference interva		
FRIIODOTHYRONIN	THYRO	ENDOCRIN	OLOGY	Biological Reference interva 0.35 - 1.93		
TRIIODOTHYRONIN by CMIA (CHEMILUMINI THYROXINE (T4): S	THYRO NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRIN(OLOGY N TEST: TOTAL	U		
TRIIODOTHYRONIN by cmia (chemilumini THYROXINE (T4): S by cmia (chemilumini THYROID STIMULA	THYRO NE (T3): SERUM escent microparticle immunoassay) ERUM escent microparticle immunoassay) TING HORMONE (TSH): SERUM escent microparticle immunoassay)	ENDOCRIN DID FUNCTION 1.31	OLOGY N TEST: TOTAL ng/mL	0.35 - 1.93		

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and triiodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or 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 (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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Fest Name		Value	Unit	t	Biological Reference interval	
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 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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