



	Dr. Vinay Cl MD (Pathology & Chairman & Cor			(Pathology)	
NAME	: Mrs. ANU NAYYAR				
AGE/ GENDER	: 38 YRS/FEMALE		PATIENT ID	: 1619064	
COLLECTED BY	:		REG. NO./LAB NO.	: 012409200007	
REFERRED BY		REGISTRATION DATE		: 20/Sep/2024 07:16 AM	
BARCODE NO.	ARCODE NO. : 01517300		COLLECTION DATE	: 20/Sep/2024 07:20AM	
CLIENT CODE.	LIENT CODE. : KOS DIAGNOSTIC LAB		REPORTING DATE : 20/Sep/2024 10:32AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLIN	IICAL CHEMIS	STRY/BIOCHEMISTR	Y	
		GLUCOSE	E FASTING (F)		
	F): PLASMA	96.53	mg/dL	NORMAL: < 100.0	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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.
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.



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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	MD (Pathology & Mi	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n Chopra (Pathology) : Pathologist	
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Test Name		Value	Unit	Biological Reference interval	
	IHY	ROIDFUN	ICTION TEST: TOTAL		
TRIIODOTHYRONINE (T3): SERUM 0.521			ng/mL	0.35 - 1.93	
by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) THYROXINE (T4): SERUM 9.56 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	ween 2-4 a.m mulates the p	roduction and secretion of the m	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of the etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or	

CLINICAL CONDITION	Т3	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 Unit	Biological Reference interval
	74 2 40 6 12 Months		

lest Name		value	Onit		Biological Reference	
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	VELS DURING PREG	SNANCY (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 **





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

