



	Dr. Vinay Cł MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)		
NAME	: Mrs. SAPNA					
AGE/ GENDER	: 39 YRS/FEMALE	РАТ	TENT ID	: 1602668		
COLLECTED BY	:	REG	. NO./LAB NO.	: 012409050043		
REFERRED BY	:	REG	ISTRATION DATE	: 05/Sep/2024 11:17 AM		
BARCODE NO.	:01516346	COL	LECTION DATE	:05/Sep/2024 11:20AM		
2.11.002201				:05/Sep/202401:19PM		
	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 05/Sep/2024 01:19PM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,		ORTING DATE	: 05/Sep/2024 01:19PM		
CLIENT CODE.			ORTING DATE	: 05/Sep/2024 01:19PM Biological Reference interval		
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT	Unit	Biological Reference interval		
CLIENT CODE. CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit //BIOCHEMISTR	Biological Reference interval		

(after consumption of 75 gms of glucose) is recommended for all such patients.
3. A random glucose level of 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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	MD (Pathology & M	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		n Chopra (Pathology) : Pathologist	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Sep/2024 01:26PM	
Test Name	: 6349/1, NICHOLSON ROAD, AN	Value	Unit	Biological Reference interval	
		ENDO	CRINOLOGY		
	TH	YROID FUN	ICTION TEST: TOTAL		
TRIIODOTHYRONINI	E (T3): SERUM VESCENT MICROPARTICLE IMMUNOASS	0.827 <i>ay</i>)	ng/mL	0.35 - 1.93	
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM NESCENT MICROPARTICLE IMMUNOASS,	9.19 4 <i>y</i>)	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 be	e <i>tween 2-4 a.m a</i> stimulates 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	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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NAME



(A Unit of KOS Healthcare)	EXCELLENCE IN HEALTHCARE & DIAGNOSTICS
Dr. Vinay Chopra 1D (Pathology & Microbiology) Chairman & Consultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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Test Name				Unit		Biological Reference interval
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	NANCY (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.

Dr. Vinay Cho MD (Pathology & N Chairman & Consu

: Mrs. SAPNA

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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