



	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)	
NAME	: Mr. ABHAY WADHWA				
AGE/ GENDER	: 36 YRS/MALE	I	PATIENT ID	: 1544225	
COLLECTED BY	:	I	REG. NO./LAB NO.	: 042407100002	
REFERRED BY	:	REGISTRATION DATE		: 10/Jul/2024 10:11 AM	
BARCODE NO.	: A0524925	COLLECTION DATE		: 10/Jul/2024 03:32PM	
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	I	REPORTING DATE	: 10/Jul/2024 05:14PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		ENDOCR	RINOLOGY		
	TH	YROID FUNCT	TION TEST: TOTAL		
TRIIODOTHYRONINE	(T3): SERUM escent microparticle immunoassa	1.021	ng/mL	0.35 - 1.93	
THYROXINE (T4): SEF		6.08	μgm/dL	4.87 - 12.60	
	ING HORMONE (TSH): SERUM VESCENT MICROPARTICLE	6.952 ^H	μlU/mL	0.35 - 5.50	
by CMIA (CHEMILUMII IMMUNOASSAY)					

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 (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





KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com

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

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

KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana





Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist					
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Test Name			Value	Uni	it 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		
RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (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)

