



	Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho	gy) MD	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. AKHIL GOEL				
AGE/ GENDER	: 38 YRS/MALE	PATIENT ID	: 1550644		
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012407160040		
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CAN	TT) REGISTRATION DATE	: 16/Jul/2024 11:54 AM		
BARCODE NO.	: 01513253	<b>COLLECTION DATE</b>	: 16/Jul/2024 12:03PM : 16/Jul/2024 01:25PM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT			
Test Name	Value	e Unit	Biological Reference interval		
	ENI	DOCRINOLOGY			
	THYROID F	UNCTION TEST: TOTAL			
	TRIIODOTHYRONINE (T3): SERUM 0.693		0.05 1.00		
		3 ng/mL	0.35 - 1.93		
<i>by CMIA (CHEMILUMIN</i> THYROXINE (T4): SE	NESCENT MICROPARTICLE IMMUNOASSAY)	β ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60		

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 levies 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	





**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





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. AKHIL GOEL		
AGE/ GENDER	: 38 YRS/MALE	PATIENT ID	: 1550644
<b>COLLECTED BY</b>	: SURJESH	REG. NO./LAB NO.	: 012407160040
<b>REFERRED BY</b>	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	<b>REGISTRATION DATE</b>	: 16/Jul/2024 11:54 AM
BARCODE NO.	: 01513253	COLLECTION DATE	: 16/Jul/2024 12:03PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 16/Jul/2024 01:25PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		
Test Name	Value	Unit	<b>Biological Reference interval</b>

rest warne			value	Unit		Biological Rele	erence int
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	EVELS DURING PREG	NANCY ( µIU/mL)	·		
1st Trimester			0.10 - 2.50				
2nd Trimester		0.20 - 3.00					
3rd Trimester				0.30 - 4.10			
2nd Trimester				0.20 - 3.00			

## 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)

