



	Dr. Vinay Chc MD (Pathology & I Chairman & Const	Microbiology)	M	am Chopra 1D (Pathology) :ant Pathologist		
NAME	: Ms. CHONSEE B.MARAK					
AGE/ GENDER	: 32.10 YRS/FEMALE		PATIENT ID	: 1769790		
COLLECTED BY	:		REG. NO./LAB NO.	:042503130002		
REFERRED BY	:		REGISTRATION DATE	: 13/Mar/2025 10:40 AM		
BARCODE NO.	: A1260652		COLLECTION DATE	: 13/Mar/2025 02:56PM		
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD		REPORTING DATE	: 13/Mar/2025 05:05PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A DOB: 08-May-1992	MBALA CANTT				
Test Name		Value	Unit	Biological Refe	rence interval	
			TION TEST: TOTAL			
TRIIODOTHYRONINE (T3): SERUM		0.956	ng/mL	0.35 - 1.93		
THYROXINE (T4): S	IESCENT MICROPARTICLE IMMUNOASS SERUM IESCENT MICROPARTICLE IMMUNOASS	8.16	µgm/d	L 4.87 - 12.60		
by CMIA (CHEMILUMIN	TING HORMONE (TSH): SERUN		µIU/m	L 0.35 - 5.50		
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE					
TSH levels are subject to a day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak levels b measured serum TSH concentrations. TSH lure at any level of regulation of the hyp rroidism) of T4 and/or T3.	stimulates the pro	oduction and secretion of the	metabolically active hormones, thyr	oxine (T4)and	
CLINICAL CONDITION	T3		T4	TSH	1	
Primary Hypothyroidis			Reduced	Increased (Significantly)]	
Subclinical Hypothyroi	dism: Normal or Low N	lormal	Normal or Low Normal	High		
Primary Hyperthyroidis	sm: Increased		Increased	Reduced (at times undetectable)]	
				D. L. L	1	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

LIMITATIONS:-

Subclinical Hyperthyroidism:

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.

Normal or High Normal

Reduced

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	

Normal or High Normal





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

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







	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist						
NAME	: Ms. CHON	SEE B.MARAK					
AGE/ GENDER	: 32.10 YRS/	/FEMALE		PATIENT ID	::	1769790	
COLLECTED BY	:	:		REG. NO./LAB NO.		: 042503130002	
REFERRED BY	· .			REGISTRATION DATE		: 13/Mar/2025 10:40 AM	
BARCODE NO.	: A1260652			COLLECTION DATE		: 13/Mar/2025 02:56PM	
CLIENT CODE.	: KOS DIAGI	NOSTIC SHAHBAD		REPORTING DATE		: 13/Mar/2025 05:05PM	
CLIENT ADDRESS	,	ICHOLSON ROAD, AN B: 08-May-1992	MBALA CANTT				
Test Name			Value	Uni	it	Biolo	gical Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.5	0	1
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.5	0	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.5	0	
		MMENDATIONS OF TSH L	EVELS DURING PRI	EGNANCY (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 ***





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

