



		v & Microbiology) onsultant Pathologist		m Chopra D (Pathology) nt Pathologist	
NAME	: Master. PHARKHAR				
AGE/ GENDER	: 07 YRS/MALE	P	ATIENT ID	: 1720769	
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	:012501100019	
REFERRED BY	:	R	EGISTRATION DATE	: 10/Jan/2025 11:52 AM	
BARCODE NO.	:01523716	C	OLLECTION DATE	: 10/Jan/2025 12:11PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 10/Jan/2025 02:11PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference inter	rval
		ENDOCR	INOLOGY		
	1	HYROID FUNCT	ION TEST: TOTAL		
TRIIODOTHYRONINE (T3): SERUM 1.2 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			ng/mL	0.35 - 2.28	
THYROXINE (T4): SERUM 8.56 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			µgm/d	L 6.00 - 13.80	
	ATING HORMONE (TSH): SE NESCENT MICROPARTICLE IMMUNG RASENSITIVE		µIU/ml	0.60 - 5.50	
TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the produ	iction and secretion of the	<i>pm. The variation is of the order of 50%.Hence time</i> metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or	
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis	m: Reduced		Reduced	Increased (Significantly)	

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 (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	





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





		Dr. Vinay Ch MD (Pathology & Chairman & Con			gam Chopra MD (Pathology) ıltant Pathologist	
NAME	: Master.	PHARKHAR				
AGE/ GENDER	: 07 YRS/N	IALE		PATIENT ID	: 172076	39
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	: 01250	01100019
REFERRED BY	:			REGISTRATION DAT	FE : 10/Jan	/2025 11:52 AM
BARCODE NO.	:0152371	6		COLLECTION DATE	: 10/Jan	/2025 12:11PM
CLIENT CODE.	: KOS DIA	GNOSTIC LAB		REPORTING DATE	: 10/Jan	/2025 02:11PM
CLIENT ADDRESS	S : 6349/1, 1	NICHOLSON ROAD,	AMBALA CANTT			
Test Name			Value	Unit	Z	Biological Reference interval
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, 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)

