



	MD (Pathology & Micro	r. Vinay Chopra D (Pathology & Microbiology) airman & Consultant Pathologist		Chopra Pathology) Pathologist
NAME	: Mr. JASHMEET KHURANA			
AGE/ GENDER	: 42 YRS/MALE	PATIE	NT ID	: 1508557
COLLECTED BY	:	REG. N	[0./LAB NO.	: 042504040001
REFERRED BY	:	REGIS	TRATION DATE	: 04/Apr/2025 12:30 PM
BARCODE NO.	: A1260786	COLLE	CTION DATE	: 04/Apr/2025 02:46PM
CLIENT CODE.	: KOS DIAGNOSTIC SHAHBAD	REPO	RTING DATE	:04/Apr/202504:19PM
Test Name		Value	Unit	Biological Reference interval
	F	NDOCRINO	LOGY	
			TEST: TOTAL	
	THYROI		TEST: TOTAL ng/mL	0.35 - 1.93
by CMIA (CHEMILUMIN THYROXINE (T4):	THYROI INE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	D FUNCTION		0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): by CMIA (CHEMILUMIN THYROID STIMUL	THYROD INE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) SERUM	D FUNCTION 0.865	ng/mL	
THYROXINE (T4): by CMIA (CHEMILUMIN THYROID STIMUL	THYROI INE (T3): SERUM iescent microparticle immunoassay) SERUM iescent microparticle immunoassay) ATING HORMONE (TSH): SERUM iescent microparticle immunoassay)	D FUNCTION 0.865 8.29	ng/mL µgm/dL	4.87 - 12.60

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	





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DR.YUGAM CHOPRA

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Test Name			Value	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 LI	EVELS DURING PRE	GNANCY (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 **





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