



	Dr. Vinay Chc MD (Pathology & I Chairman & Consu	Microbiology)	Dr. Yugam MD ( CEO & Consultant I	Pathology)	
NAME	: Ms. DILPREET KAUR				
AGE/ GENDER	: 28 YRS/FEMALE	PATIH	ENT ID	: 1567579	
COLLECTED BY	:	REG. N	NO./LAB NO.	: 012408010049	
REFERRED BY	:	<b>REGISTRATION DATE</b>		: 01/Aug/2024 02:25 PM	
BARCODE NO.	: 01514265	COLLECTION DATE		: 01/Aug/2024 02:50PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>		: 01/Aug/2024 06:39PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
Test Name		Value		Biological Reference interval	
Test Name	TH		LOGY	Biological Reference interval	
TRIIODOTHYRONIN		ENDOCRINO HYROID FUNCTION 0.733	LOGY	Biological Reference interval	
TRIIODOTHYRONIN <i>by cmia (chemilumi</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASS	ENDOCRINO HYROID FUNCTION 0.733 SAY) 4.89	LOGY TEST: TOTAL		
TRIIODOTHYRONIN by cmia (chemilumi THYROXINE (T4): SE by cmia (chemilumi THYROID STIMULA	E (T3): SERUM <i>nescent microparticle immunoass</i> RUM	ENDOCRINO HYROID FUNCTION 0.733 SAY) 4.89	DLOGY TEST: TOTAL ng/mL	0.35 - 1.93	

day has influence on the measured serum TSH concentrations.TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3).Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	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)		THYROXI	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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	MD (Pathology & Microbiology)		<b>ugam Chopra</b> MD (Pathology) sultant Pathologist	
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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 LE	EVELS DURING PREC	SNANCY ( 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 \*\*\*





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