



	MD (Pat	n <b>ay Chopra</b> hology & Microbiology) n & Consultant Pathologi	MI	m Chopra D (Pathology) nt Pathologist	
NAME	: Mrs. NEELAM				
AGE/ GENDER	: 58 YRS/FEMALE		PATIENT ID	: 1658491	
COLLECTED BY	:		REG. NO./LAB NO.	:042411020005	
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	:02/Nov/2024 11:47 AM	
BARCODE NO.	: A0465851		COLLECTION DATE	: 02/Nov/2024 02:54PM	
CLIENT CODE.	: KOS DIAGNOSTIC SH	AHBAD	<b>REPORTING DATE</b>	:02/Nov/202404:19PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON	I ROAD, AMBALA CANTT			
Test Name		Value	Unit	Biological Referen	nce interval
		THYROID FUN	<b>CRINOLOGY</b> CTION TEST: TOTAL		
TRIIODOTHYRONI by CMIA (CHEMILUMIN	NE (T3): SERUM iescent microparticle i	0.771 MMUNOASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASS		9.32 MMUNOASSAY)	µgm/d	L 4.87 - 12.60	
	TING HORMONE (TSH		µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE				
TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	measured serum TSH concent	<i>rations</i> . TSH stimulates the p	oduction and secretion of the	pm. The variation is of the order of 50%. metabolically active hormones, thyroxi her underproduction (hypothyroidism)	ne (T4)and
overproduction(hyperthy		T3	T4	TSH	
CLINICAL CONDITION					
CLINICAL CONDITION Primary Hypothyroidis	m: F	Reduced	Reduced	Increased (Significantly)	
CLINICAL CONDITION	m: F dism: Norn	Reduced nal or Low Normal	Reduced Normal or Low Normal	Increased (Significantly) High Reduced (at times undetectable)	

## 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	





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Test Name		Value	Unit		<b>Biological Reference interval</b>	
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	
	RECO	VIMENDATIONS OF TSH L	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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