



		Chopra ogy & Microbiology) Consultant Pathologis	M	m Chopra D (Pathology) nt Pathologist		
NAME	: Mr. DALIP SINGH					
AGE/ GENDER	: 71 YRS/MALE		PATIENT ID	: 1656209		
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012410290017		
REFERRED BY	:		REGISTRATION DATE	: 29/Oct/2024 09:46 AM		
BARCODE NO.	:01519744		COLLECTION DATE	: 29/Oct/2024 09:49AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 29/Oct/2024 11:01AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON RC	AD, AMBALA CANTT				
Test Name		Value	Unit	Biological Reference in	ıterval	
		ENDOC	RINOLOGY			
		THYROID FUNC	TION TEST: TOTAL			
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		0.625 NOASSAY)	ng/mL	0.35 - 1.93		
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		8.85 NOASSAY)	µgm/d	L 4.87 - 12.60		
THYROID STIMULATING HORMONE (TSH): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			µIU/m	L 0.35 - 5.50		
3rd GENERATION, ULT INTERPRETATION:						
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentratio	ns. TSH stimulates the pro	oduction and secretion of the	9 pm. The variation is of the order of 50%.Hence metabolically active hormones, thyroxine (T4) ther underproduction (hypothyroidism) or		
CLINICAL CONDITION	T3		T4	TSH		
Primary Hypothyroidis			Reduced	Increased (Significantly)		
Subclinical Hypothyroi	dism: Normal o	r Low Normal	Normal or Low Normal	High		

LIMITATIONS:-

Primary Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

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

Increased

Normal or High Normal





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NAME	: Mr. DALIP SINGH		
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Test Name		Value Unit		t	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	
	RECO	MMENDATIONS OF TSH LI	VELS 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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