

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	M		hopra & Microbiology) onsultant Pathologist	ME	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. NAVJOT	KAUR			
AGE/ GENDER	: 30 YRS/FEMA	LE		PATIENT ID	: 1767862
COLLECTED BY	:			REG. NO./LAB NO.	: 012502240033
REFERRED BY	:			<b>REGISTRATION DATE</b>	: 24/Feb/2025 10:33 AM
BARCODE NO.	:01526076			COLLECTION DATE	: 24/Feb/2025 10:34AM
CLIENT CODE.	: KOS DIAGNOS	TIC LAB		<b>REPORTING DATE</b>	: 24/Feb/2025 11:59AM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAE	), AMBALA CANTT		
Test Name			Value	Unit	Biological Reference interval
		CLINI		TRY/BIOCHEMIS	IRY
				IC ACID	
JRIC ACID: SERUM by URICASE - OXIDAS			4.02	mg/dL	2.50 - 6.80
1.Polycythemai vera 5.Psoriasis. 5.Sickle cell anaemia <b>B).DUE TO DECREASE</b>	etc.				
1.Alcohol ingestion.					
2.Thiazide diuretics. 3.Lactic acidosis.					
4.Aspirin ingestion (le 5.Diabetic ketoacido		per day ).			
6.Renal failure due to					
DECREASED:- (A).DUE TO DIETARY [	DEFICIENCY				
1.Dietary deficiency of	of Zinc, Iron and m				
2.Fanconi syndrome 3.Multiple sclerosis .		Э.			
4.Syndrome of inappi	ropriate antidiure	tic hormone (	SIADH) secretion &	low purine diet etc.	
<b>(B).́DUE TO INCREÄ́SĖ</b> I 1.Drugs:-Probenecid	, sulphinpyrazone	, aspirin dose	es (more than 4 gra	ms per day), corticosterro	oids and ACTH, anti-coagulants and estrogens et
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KOS Diagnostic Lab (A Unit of KOS Healthcare)



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	Dr. Vinay Chc MD (Pathology & I Chairman & Const	Microbiology)	M	am <b>Chopra</b> D (Pathology) ant Pathologist	
NAME	: Mrs. NAVJOT KAUR				
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 24/Feb/2025 01:06PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	r		
Test Name		Value	Unit	Biological Reference interval	
		ENDO	CRINOLOGY		
	THY	(ROID FUN	CTION TEST: TOTAL	L	
TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		0.851 SAY)	ng/mI	0.35 - 1.93	
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			μgm/c	IL 4.87 - 12.60	
THYROID STIMULATING HORMONE (TSH): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			μIU/m	L 0.35 - 5.50	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :		5A I)			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. TSH	l stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 50%.Hence time of th emetabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or	
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Low N	iormal	Normal or Low Normal	High	

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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)		THYROX	INE (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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Test Name	V	alue Unit	Biological Reference interval

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	
	RECON	/IMENDATIONS 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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