



	Dr. Vinay Cho MD (Pathology & N Chairman & Consu			am Chopra ID (Pathology) ant Pathologist	
NAME	: Mr. S.S SEHGAL				
AGE/ GENDER	: 69 YRS/MALE		PATIENT ID	: 1603805	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409060020	
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 06/Sep/2024 09:20 AM	
BARCODE NO.	: 01516403		<b>COLLECTION DATE</b>	: 06/Sep/2024 09:46AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 06/Sep/2024 10:53AM	
Test Name				Biological Reference interval	
			CTION TEST: TOTAL		
	E (T3): SERUM iescent microparticle immunoass	0.868	ng/mL	0.35 - 1.93	
THYROXINE (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		6.47	μgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels b	e <i>tween 2-4 a.m a</i> stimulates the pr	oduction and secretion of the m	0.35 - 5.50 <i>m. The variation is of the order of 50%.Hence time of th</i> etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or	

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 (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)		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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT







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			/

Test Name			Value	Unit	t	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	
	RECON	MENDATIONS OF TSH LE	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, 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





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







		y & Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
	PRO ANTIGEN (PSA) - TOTAL:	STATE SPECIFIC ANTIG	EN (PSA) - 1017	<b>AL</b> 0.0 - 4.0
INTERPRETATION: NOTE: 1. This is a recomme 2. False negative / po 3. PSA levels may app 4. Immediate PSA te needle biopsy of pro 5. PSA values regardl correlated with clini 6. Sites of Non-prost 7. Physiological decrese sexual activity 8. The concentration in assay methods, ca <b>RECOMMENDED TEST</b> 1. Preoperatively (Ba 2. 2-4 Days Post ope 3. Prior to discharge	ositive results are observed in pear consistently elevated / de sting following digital rectal ex state is not recommended as t less of levels should not be into cal findings and results of othe ratic PSA production are breas ease in PSA level by 18% has b of PSA in a given specimen, de alibration, and reagent specific <b>TING INTERVALS</b> aseline) ratively	patients receiving mouse meterssed due to the interfere kamination, ejaculation, pro- hey falsely elevate levels erpreted as absolute evidence er investigations t epithelium, salivary glands been observed in hospitalized etermined with assays from c city.	onoclonal antibodi ence by heterophili static massage, ind ce of the presence , peri-urethral & ai d / sedentary patie	ion (DRE) in males above 50 years of age. lies for diagnosis or therapy ic antibodies & nonspecific protein binding dwelling catheterization, ultrasonography and e or absence of disease. All values should be anal glands, cells of male urethra & breast mill ents either due to supine position or suspende urers, may not be comparable due to difference
· · · · ·	POST SURGERY	FREC	QUENCY OF TESTING	G
	1st Year		Every 3 Months	
2 <sup>nd</sup> Year			Lucau ( Manthe -	
	3 <sup>rd</sup> Year Onwards		Every 4 Months Every 6 Months	

and in those with two or more affected first degree relatives.

2. Followup and management of Prostate cancer patients.

3. Detect metastatic or persistent disease in patients following surgical or medical treatment of Prostate cancer

KOS Diagnostic Lab (A Unit of KOS Healthcare)

**INCREASED LEVEL:** 

1. Prostate cancer

2. Benign Prostatic Hyperplasia

3. Prostatitis



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Test Name	Value	Unit	<b>Biological Reference interval</b>

Test Name

4. Genitourinary infections

End Of Report



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