



		ogy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SUSHMA DEVI			
AGE/ GENDER	: 42 YRS/FEMALE	PATI	ENT ID	: 1700047
COLLECTED BY	:	REG.	NO./LAB NO.	: 012412160022
REFERRED BY	:	REGI	STRATION DATE	: 16/Dec/2024 10:11 AM
BARCODE NO.	:01522510	COLL	ECTION DATE	: 16/Dec/2024 11:37AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 16/Dec/2024 11:35AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
			Unit	
Test Name		Value	UIII	Biological Reference interval
Test Name	CLI	Value NICAL CHEMISTRY.		
Test Name	CLI		BIOCHEMIST	

NATIONAL LIPID ASSOCIATION RECOMMENDATIONS (NLA-2014)	CHOLESTEROL IN ADULTS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dL)
DESIRABLE	< 200.0	< 170.0
BORDERLINE HIGH	200.0 - 239.0	171.0 - 199.0
HIGH	>= 240.0	>= 200.0

NOTE:

 Molection
 Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.
 As per National Lipid association - 2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol. high total cholesterol is recommended.





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NAME	: Mrs. SUSHMA DEVI				
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COLLECTED BY	:		REG. NO./LAB NO.	:012412160022	
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 16/Dec/2024 11:32 AM	
BARCODE NO.	:01522510		<b>COLLECTION DATE</b>	: 16/Dec/2024 11:37AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 17/Dec/2024 10:47AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT	г		
Test Name		Value	Unit	Biological Reference	e interval
		ENDO	CRINOLOGY		
		THYROID FUN	CTION TEST: TOTA	L	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUN	1.302 OASSAY)	ng/ml	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle immun	8.28 OASSAY)	μgm/c	1L 4.87 - 12.60	
	ATING HORMONE (TSH): SE		µIU/m	0.35 - 5.50	
3rd GENERATION, ULT					
INTERPRETATION:					
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations	. TSH stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 50%.He e metabolically active hormones, thyroxine ther underproduction (hypothyroidism) or	(T4)and
CLINICAL CONDITION	T3		T4	TSH	
Primary Hypothyroidis	m: Reduce	d	Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or I	ow Normal	Normal or Low Normal	High	

111	ΛΙΤΑ	τιο	NS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	v	alue Unit	Biological Reference interval

		Value	Unit		Biological Reference interval
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
RECO	MMENDATIONS OF TSH LF	EVELS DURING PRE	GNANCY ( µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.35 - 1.93 0.35 - 1.93 RECO 1st Trimester 2nd Trimester	0.35 - 1.9311 - 19 Years0.35 - 1.93> 20 Years (Adults)RECOMMENDATIONS OF TSH LE1st Trimester2nd Trimester	0.35 - 1.93         11 - 19 Years         4.87 - 13.20           0.35 - 1.93         > 20 Years (Adults)         4.87 - 12.60           RECOMMENDATIONS OF TSH LEVELS DURING PRE           1st Trimester         2nd Trimester	0.35 - 1.93         11 - 19 Years         4.87 - 13.20         11 - 19 Years           0.35 - 1.93         > 20 Years (Adults)         4.87 - 12.60         > 20 Years (Adults)           RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µIU/mL)           1st Trimester         0.10 - 2.50           2nd Trimester         0.20 - 3.00	0.35 - 1.93         11 - 19 Years         4.87 - 13.20         11 - 19 Years         0.50 - 5.50           0.35 - 1.93         > 20 Years (Adults)         4.87 - 12.60         > 20 Years (Adults)         0.35 - 5.50           RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY ( μIU/mL)           1st Trimester         0.10 - 2.50           2nd Trimester         0.20 - 3.00

#### **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





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Dr. Vinay Chopra

MD (Pathology & Microbiology)



Dr. Yugam Chopra MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** 

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	

# **CYTOLOGY**

### FINE NEEDLE ASPIRATION CYTOLOGY (FNAC) OF THYROID GLAND

#### **TEST NAME:**

### FINE NEEDLE ASPIRATION CYTOLOGY (FNAC) OF THYROID GLAND

**CLINICAL HISTORY (IF ANY** 

### SITE:

Rt. thyroid swelling

### NATURE OF SWELLING:

Vague, Firm & ill-defined.

## **MATERIAL ASPIRATED**

Scanty

# **MICROSCOPIC EXAMINATION:**

FNAC rt. thyroid show a few scattered benign looking spindle cells mainly discretely.Occ. muscle fragments also noted.





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1			

# **INTERPRETATION/RESULT:**

Correlate clinically.

\*\*\* End Of Report \*\*\*



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