



	MD (F	<b>/inay Chopra</b> /athology & Microbiology) nan & Consultant Pathologist	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Mrs. SEEMA			
AGE/ GENDER	: 54 YRS/FEMALE	PATI	IENT ID	: 1673397
COLLECTED BY	:	REG.	NO./LAB NO.	:012411160010
REFERRED BY	:	REG	ISTRATION DATE	: 16/Nov/2024 08:12 AM
BARCODE NO.	:01520886	COLI	LECTION DATE	: 16/Nov/2024 08:18AM
CLIENT CODE.	: KOS DIAGNOSTIC	LAB <b>REP</b> O	ORTING DATE	: 16/Nov/2024 10:22AM
CLIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		CLINICAL CHEMISTRY	/BIOCHEMISTI	RY
		GLUCOSE FAS	TING (F)	
GLUCOSE FASTING	G (F): PLASMA Se - peroxidase (god-p	99.61	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

**IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:** 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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**DR.YUGAM CHOPRA** CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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NAME	: Mrs. SEEMA				
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BARCODE NO.	: 01520886		LLECTION DATE	: 16/Nov/2024 08:18AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 16/Nov/2024 12:19PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			. 10, 100, 2021 12.101 M	
Test Name		Value	Unit	Biological Refere	nce interval
		UROID FUNCTIO	<b>DN TEST: TOTAL</b> ng/mL	0.35 - 1.93	
THYROXINE (T4): S		7.63	µgm/dI	4.87 - 12.60	
THYROID STIMULA	TING HORMONE (TSH): SER	UM 5.836 <sup>H</sup>	µIU/mL	0.35 - 5.50	
TSH levels are subject to o day has influence on the r triiodothyronine (T3).Fail	measured serum TSH concentrations. T	SH stimulates the product	ion and secretion of the r	om. The variation is of the order of 50% netabolically active hormones, thyroxi er underproduction (hypothyroidism)	ne (T4)and
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidisr				Increased (Significantly)	
Subclinical Hypothyroid		Normal Norm	nal or Low Normal	High	
Primary Hyperthyroidis				Reduced (at times undetectable)	
Subclinical Hyperthyro	idism: Normal or Hig	n Normal Norm	nal 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 (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		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 LI	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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