



		Chopra / & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. SONIA			
AGE/ GENDER	: 40 YRS/FEMALE	PATI	ENT ID	: 1690605
COLLECTED BY	:	REG.	NO./LAB NO.	: 012412040047
REFERRED BY	:	REGI	STRATION DATE	: 04/Dec/2024 02:05 PM
BARCODE NO.	: 01521974	COLI	ECTION DATE	:04/Dec/202402:11PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	:04/Dec/202403:16PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT Value	Unit	Biological Reference interval
		Value	/BIOCHEMIST	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

A random plasma glucose level below 140 mg/dl is considered normal.
A random glucose level between 140 - 200 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prnadial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
A random glucose level of above 200 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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COLLECTED BY	:		REG. NO./LAB NO.	:012412040047	
REFERRED BY	:		REGISTRATION DATE	: 04/Dec/2024 02:05 PM	
BARCODE NO.	:01521974		COLLECTION DATE	:04/Dec/202402:11PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:04/Dec/202403:34PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTI	г		
Test Name		Value	Unit	Biological Refere	nce interval
	Т		CRINOLOGY CTION TEST: TOTAI		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNC	0.752	ng/mL	0.35 - 1.93	
THYROXINE (T4): S		7.12	µgm/d	L 4.87 - 12.60	
	ATING HORMONE (TSH): SEI		µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE				
TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the pr	roduction and secretion of the) pm. The variation is of the order of 50% metabolically active hormones, thyroxi ther underproduction (hypothyroidism)	ne (T4)and
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis			Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: Normal or Lo	ow ivormal	Normal or Low Normal	High	

LIMI	TAT	IONS	S:-

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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	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path		(Pathology)
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Test Name			Value	alue Unit		Biological Reference interva	
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 I	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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