



		hopra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. NEERAJ PASSI			
AGE/ GENDER	: 24 YRS/MALE	PA	TIENT ID	: 1662791
COLLECTED BY	: SURJESH	RI	EG. NO./LAB NO.	: 012411060025
<b>REFERRED BY</b>	:	RI	EGISTRATION DATE	:06/Nov/2024 10:12 AM
BARCODE NO.	:01520213	CO	DLLECTION DATE	:06/Nov/2024 10:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	:06/Nov/2024 11:36AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	CAL CHEMISTE GLUCOSE FA	RY/BIOCHEMIST ASTING (F)	'nY
GLUCOSE FASTING by GLUCOSE OXIDAS	G (F): PLASMA E - PEROXIDASE (GOD-POD)	121.74 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	М	r. Vinay Chopra D (Pathology & Microbio nairman & Consultant Pa		M	m Chopra D (Pathology) nt Pathologist	
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CLIENT CODE.	: KOS DIAGNOS	FIC LAB	REPORTIN	G DATE	:06/Nov/2024 11:47AM	
CLIENT ADDRESS	: 6349/1, NICH	DLSON ROAD, AMBALA	CANTT			
Test Name		Va	lue	Unit	Biological Reference inter	rval
		E	NDOCRINOLO	GY		
		THYROID	FUNCTION TES	T: TOTAL		
TRIIODOTHYRONI			013	ng/mL	0.35 - 1.93	
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		8. FICLE IMMUNOASSAY)	1	µgm/d	L 4.87 - 12.60	
THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT	IESCENT MICROPAR		146	µIU/m	L 0.35 - 5.50	
INTERPRETATION; ULT	RADENDITIVE					
day has influence on the	<i>measured serum TSH</i> lure at any level of re	<i>oncentrations</i> . TSH stimulat gulation of the hypothalam	es the production and s	ecretion of the	pm. The variation is of the order of 50%.Hence time metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or	
CLINICAL CONDITION		T3	T4		TSH	
Primary Hypothyroidis	m:	Reduced	Reduced		Increased (Significantly)	

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 (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		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		
	RECO	MMENDATIONS 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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