



		Chopra y & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. KAVITA NEGI			
AGE/ GENDER	: 33 YRS/FEMALE	P	ATIENT ID	: 1572226
COLLECTED BY	: SURJESH	R	EG. NO./LAB NO.	: 012408060043
REFERRED BY	:	R	EGISTRATION DATE	: 06/Aug/2024 12:09 PM
BARCODE NO.	: 01514591	C	OLLECTION DATE	:06/Aug/2024 12:15PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 06/Aug/2024 01:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMIST	RY/BIOCHEMISTR	Y
		GLUCOSE F	ASTING (F)	
		79.9	mg/dL	NORMAL: < 100.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 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.
 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





	MD (Pathology &	Dr. Vinay Chopra Dr. Yugam 1D (Pathology & Microbiology) MD (Chairman & Consultant Pathologist CEO & Consultant		(Pathology)	
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		:06/Aug/202401:18PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
				Biological Reference interval	
		ENDOCRIN			
			IOLOGY		
TRIIODOTHYRONIN	E (T3): SERUM	ENDOCRIN THYROID FUNCTIC 0.968	IOLOGY	0.35 - 1.93	
TRIIODOTHYRONIN <i>by cmia (chemilumii</i> THYROXINE (T4): SE	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOA	ENDOCRIN THYROID FUNCTIC 0.968 SSAY) 7.39	IOLOGY DN TEST: TOTAL		
TRIIODOTHYRONIN by cmia (chemilumi THYROXINE (T4): SE by cmia (chemilumi THYROID STIMULAT	E (T3): SERUM <i>NESCENT MICROPARTICLE IMMUNOA</i> RUM	ENDOCRIN THYROID FUNCTIC 0.968 SSAY) 7.39 SSAY) 1.503	IOLOGY ON TEST: TOTAL ng/mL	0.35 - 1.93	
TRIIODOTHYRONIN by cmia (chemilumii THYROXINE (T4): SE by cmia (chemilumii THYROID STIMULAT	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOA RUM NESCENT MICROPARTICLE IMMUNOA FING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOA	ENDOCRIN THYROID FUNCTIC 0.968 SSAY) 7.39 SSAY) 1.503	IOLOGY ON TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60	

trilodothyronine (T3).Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

 CLINICAL CONDITION
 T3
 T4
 TSH

 Primary Hypothyroidism:
 Reduced
 Increased (Significantly)

 Subclinical Hypothyroidism:
 Normal or Low Normal
 Hinds

	10		1011
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 Name			Value	Unit		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	
	RECO	MMENDATIONS 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, 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

*** End Of Report **





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