



	MD (Patho	y Chopra logy & Microbiology) & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. VEENA			
AGE/ GENDER	: 43 YRS/FEMALE	1	PATIENT ID	: 1638651
COLLECTED BY	:]	REG. NO./LAB NO.	: 012410090002
REFERRED BY	:]	REGISTRATION DATE	: 09/Oct/2024 07:09 AM
BARCODE NO.	: 01518559	(COLLECTION DATE	:09/Oct/202407:10AM
CLIENT CODE. : KOS DIAGNOSTIC LAB		1	REPORTING DATE	: 09/Oct/2024 10:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON F	OAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
L		CLINICAL CHEMIST	RY/BIOCHEMISTR	Y
			RY/BIOCHEMISTR FASTING (F)	Y

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.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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CLIENT CODE.	: KOS DIAGNOSTIC LA	B REP	ORTING DATE	: 09/Oct/2024 10:06AM
CLIENT ADDRESS	: 6349/1, NICHOLSON	I ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CHOLESTEROI	.: SERUM	
CHOLESTEROL TOTA by cholesterol or		164.52	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
INTERPRETATION: NATIONAL LI	PID ASSOCIATION	CHOLESTEROL IN ADUL	TS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dL)

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:

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 is recommended.





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BARCODE NO. : CLIENT CODE. : CLIENT ADDRESS :	KOS DIAGNOSTIC LAB	CO RE	LLECTION DATE	
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CLIENT ADDRESS :			PORTING DATE	
	6349/1, NICHOLSON ROAD, AM	IBALA CANTT		:09/Oct/2024 10:06AM
Test Name				
		Value	Unit	Biological Reference interval
		URIC A	CID	
URIC ACID: SERUM		4.3	mg/dL	2.50 - 6.80
by URICASE - OXIDASE F	PEROXIDASE	1.0	ing/ de	2.00 0.00
 3.Cytolytic treatment of 4.Polycythemai vera & 1 5.Psoriasis. 6.Sickle cell anaemia et (B).DUE TO DECREASED I 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis. 4.Aspirin ingestion (less 5.Diabetic ketoacidosis 6.Renal failure due to an DECREASED:- (A).DUE TO DIETARY DEF 1.Dietary deficiency of Z 2.Fanconi syndrome & 3.Multiple sclerosis. 	nes (organ meats,legumes,ancho f malignancies especially leukem myeloid metaplasia. c. EXCREATION (BY KIDNEYS) e than 2 grams per day). or starvation. ny cause etc. FICIENCY Zinc, Iron and molybdenum. Wilsons disease.	ais & lymphomas.		
 Syndrome of inapprop 	priate antidiuretic hormone (SIAE XCREATION Uphinpyrazone, aspirin doses (m			ds and ACTH, anti-coagulants and estrogens e





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CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD, AMI	Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	ТНҮ		NCTION TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY	0.856 Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SEI	RUM iescent microparticle immunoassa	5.48 Y)	μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :			µIU/mL and at a minimum between 6-10 p	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of t

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 (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
(10 Mantha 0			7.00

					Biological Reference in	
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	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREG	NANCY (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 **





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

