



	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. PUSHPA			
AGE/ GENDER	: 50 YRS/FEMALE	PATI	ENT ID	: 1619077
COLLECTED BY	:	REG. NO./		: 012409200013
REFERRED BY	:	REGI	STRATION DATE	: 20/Sep/2024 08:18 AM
BARCODE NO.	:01517306	COLL	ECTION DATE	: 20/Sep/2024 08:24AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	REPORTING DATE : 20/Sep/2	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CLIN	Value		
Test Name			/BIOCHEMISTR	4
GLUCOSE FASTING (GLUCOS	IICAL CHEMISTRY	/BIOCHEMISTR	4
GLUCOSE FASTING (by GLUCOSE OXIDAS GLUCOSE POST PRAI	GLUCOS F): PLASMA SE - PEROXIDASE (GOD-POD)	IICAL CHEMISTRY	/BIOCHEMISTR POST PRANDIAL	Y (PP) NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

 A fasting plasma glucose below 100 mg/dL and post-prandial plasma glucose level below 140 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl and post-prandial plasma glucose level between 140 - 200 mg/dL is considered as glucose intolerant or pre diabetic. 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 and post-prandial plasma glucose level 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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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Test Name		Value	Unit	Biological Reference interval
UREA: SERUM by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)	UREA 22.67	mg/dL	10.00 - 50.00

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



0 9 0 0 1 : 2 0 0 8 CERT	IFIED LAB	1	EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
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Test Name		Value	Unit	Biological Reference interval
		CREATINI	NF	
by ENZYMATIC, SPEC	CTROPHOTOMETRY			
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST	DR.YUGAM CHO CONSULTANT F		

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 20/Sep/2024 10:35AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		URIC AC	D	
URIC ACID: SERUM		6.62	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE	0.02	mg/ de	2.00 0.00
3.Cytolytic treatmen	urines (organ meats,legumes,an t of malignancies especially leuk & myeloid metaplasia. etc. ED EXCREATION (BY KIDNEYS)	cnovies, etc). emais & lymphomas.		
(B).DUE TO DECREASE 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis. 4.Aspirin ingestion (I 5.Diabetic ketoacido 6.Renal failure due to DECREASED:- (A).DUE TO DIETARY I 1.Dietary deficiency of 2.Fanconi syndrome 3.Multiple sclerosis	ess than 2 grams per day). sis or starvation. o any cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease.			





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	TIC LAB REPORTING DATE		: 20/Sep/2024 12:04PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRINOL	OGY		
	ТНҮГ	ROID FUNCTION T	EST: TOTAL		
TRIIODOTHYRONINE	E (T3): SERUM iescent microparticle immunoassay)	0.757	ng/mL	0.35 - 1.93	
	RUM	6.27	μgm/dL	4.87 - 12.60	
THYROXINE (T4): SEI	IESCENT MICROPARTICLE IMMUNOASSAY)				
THYROXINE (T4): SEI by CMIA (CHEMILUMIN THYROID STIMULAT	IESCENT MICROPARTICLE IMMUNOASSAY) ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE	17.097 ^H	μIU/mL	0.35 - 5.50	

day has influence on the measured serum TSH concentrations.TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and 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	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.

TDIIODOTUN	(RONINE (T3)	THYROX			LATING HORMONE (TSH)
	ROMINE (13)	INTROA	INE (14)		
Age	Refferance	Age	Refferance	Age	Reference Range
	Range (ng/mL)		Range (µg/dL)		(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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			· · · · · · · · · · · · · · · · · · ·

6 - 12 Months	7.10 - 16.16	6 - 12 Months	0 70 7 00	
4 40.14			0.70 - 7.00	
1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
ECOMMENDATIONS OF TSH LE	EVELS DURING PRE	GNANCY (µIU/mL)	•	
ter		0.10 - 2.50		
ster		0.20 - 3.00		
ster		0.30 - 4.10		
	> 20 Years (Adults)	> 20 Years (Adults) 4.87 - 12.60 ECOMMENDATIONS OF TSH LEVELS DURING PREC ter ster	> 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) ECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) ter 0.10 - 2.50 ster 0.20 - 3.00	> 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 ECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μU/mL) ter 0.10 - 2.50 ster 0.20 - 3.00 0.20 - 3.00

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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