



	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)	
NAME	: Mr. JARNAIL SINGH				
AGE/ GENDER	: 60 YRS/MALE	РАТ	IENT ID	: 1600486	
COLLECTED BY	:	REG	. NO./LAB NO.	: 012409030034	
REFERRED BY	:	REG	ISTRATION DATE	: 03/Sep/2024 12:35 PM	
BARCODE NO. : 01516239 CLIENT CODE. : KOS DIAGNOSTIC LAB		COL	LECTION DATE	: 03/Sep/2024 12:39PM	
		REPORTING DATE		:03/Sep/2024 01:39PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLIN	ICAL CHEMISTRY	/BIOCHEMISTR	Y	
	CLIN	ICAL CHEMISTRY GLUCOSE FAS		Ŷ	

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		URIC ACI			
URIC ACID: SERUM		6.81	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS	SE PEROXIDASE	0.01	ing, at		
 3.Cytolytic treatmen 4.Polycythemai vera 5.Psoriasis. 6.Sickle cell anaemia (B).DUE TO DECREASE 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis. 	ED EXCREATION (BY KIDNEYS) ess than 2 grams per day).	emais & lymphomas.			
5.Diabetic ketoacido 6.Renal failure due to DECREASED:- (A).DUE TO DIETARY I	o any cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease.				





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RNAIL SINGH /MALE 39 AGNOSTIC LAB , NICHOLSON ROAD, AMBALA	REG. REGE COLL REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE PRTING DATE	: 1600486 : 012409030034 : 03/Sep/2024 12:35 PM : 03/Sep/2024 12:39PM : 03/Sep/2024 02:17PM
39 AGNOSTIC LAB	REG. REGE COLL REPO	NO./LAB NO. STRATION DATE ECTION DATE	: 012409030034 : 03/Sep/2024 12:35 PM : 03/Sep/2024 12:39PM
AGNOSTIC LAB	REGE COLL REPO	STRATION DATE ECTION DATE	: 03/Sep/2024 12:35 PM : 03/Sep/2024 12:39PM
AGNOSTIC LAB	COLL REPO	ECTION DATE	: 03/Sep/2024 12:39PM
AGNOSTIC LAB	REPO		1
		RTING DATE	:03/Sep/202402:17PM
, NICHOLSON ROAD, AMBALA	CANTT		
Va	lue	Unit	Biological Reference interval
E	NDOCRINC	DLOGY	
THYROII	D FUNCTION	TEST: TOTAL	
TRIIODOTHYRONINE (T3): SERUM 0. by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			0.35 - 1.93
THYROXINE (T4): SERUM 8.38 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)			4.87 - 12.60
CROPARTICLE IMMUNOASSAY)	202	µIU/mL	0.35 - 5.50
	E THYROII UM 0.1 CROPARTICLE IMMUNOASSAY) CROPARTICLE IMMUNOASSAY) 10NE (TSH): SERUM 2.1 CROPARTICLE IMMUNOASSAY) VE iation, reaching peak levels between 2 rum TSH concentrations.TSH stimulate	THYROID FUNCTION UM 0.965 CROPARTICLE IMMUNOASSAY) 8.38 CROPARTICLE IMMUNOASSAY) 2.202 MONE (TSH): SERUM 2.202 CROPARTICLE IMMUNOASSAY) 2.202 VE 2.202 iation, reaching peak levels between 2-4 a.m and at a m rum TSH concentrations.TSH stimulates the production evel of regulation of the hypothalamic-pituitary-thyroi	ENDOCRINOLOGY THYROID FUNCTION TEST: TOTAL UM 0.965 ng/mL CROPARTICLE IMMUNOASSAY) 8.38 µgm/dL CROPARTICLE IMMUNOASSAY) MONE (TSH): SERUM 2.202 µIU/mL CROPARTICLE IMMUNOASSAY) VE

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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		

		value	Value		biological Reference	
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 **





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