



	MD	: Vinay Chopra 9 (Pathology & Microbio airman & Consultant Pat		Dr. Yugam MD (1 CEO & Consultant F	Pathology)
NAME	: Mr. AMIT				
AGE/ GENDER	: 43 YRS/MALE		PATIEN	ГID	: 1766021
COLLECTED BY	:		REG. NO	./LAB NO.	: 012502220025
REFERRED BY	:		REGISTI	RATION DATE	: 22/Feb/2025 09:29 AM
BARCODE NO.	: 01525945		COLLEC	FION DATE	: 22/Feb/2025 09:35AM
CLIENT CODE.	: KOS DIAGNOST	IC LAB	REPORT	ING DATE	: 22/Feb/2025 11:06AM
CLIENT ADDRESS	: 6349/1, NICHO	LSON ROAD, AMBALA	CANTT		
Test Name		Val	ue	Unit	Biological Reference interval
tissues back to the lu A low hemoglobin lev	ings. /el is referred to as /	ed blood cells that carri ANEMIA or low red bloc	50	he lungs to the boo	dys tissues and returns carbon dioxide from
2) Nutritional deficie 3) Bone marrow prok 4) Suppression by re 5) Kidney failure	umatic injury, surge ncy (iron, vitamin B blems (replacement d blood cell synthes obin structure (sick REASED HAEMOGLO Ititudes (Physiologi ry Polycythemia) uces a falsely rise in	of bone marrow by can is by chemotherapy dru le cell anemia or thalas BIN):	cer) ugs ssemia).		





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NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

Page 1 of 4





		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam C MD (Pa CEO & Consultant Pa	athology)
IAME	: Mr. AMIT			
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REFERRED BY	:	REGI	STRATION DATE	: 22/Feb/2025 09:29 AM
BARCODE NO.	: 01525945	COLL	ECTION DATE	: 22/Feb/2025 09:35AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 22/Feb/2025 11:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMISTRY GLUCOSE FAS		Y
GLUCOSE FASTING	G (F): PLASMA SE - PEROXIDASE (GOD-POD)	108.99 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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.



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NAME	: Mr. AMIT				
AGE/ GENDER	: 43 YRS/MALE		PATIENT ID	: 1766021	
COLLECTED BY	:		REG. NO./LAB NO.	:012502220025	
REFERRED BY	:		REGISTRATION DATE	: 22/Feb/2025 09:29 AM	
BARCODE NO.	:01525945		COLLECTION DATE	: 22/Feb/2025 09:35AM	
CLIENT CODE.	: KOS DIAGNOSTIC I	AB	REPORTING DATE	: 22/Feb/2025 12:15PM	
CLIENT ADDRESS	: 6349/1, NICHOLSC	ON ROAD, AMBALA CANT	r		
Test Name		Value	Unit	Biological Reference	e interval
		ENDO	CRINOLOGY		
		THYROID FUN	CTION TEST: TOTA	L	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE	1.31 IMMUNOASSAY)	ng/ml	0.35 - 1.93	
THYROXINE (T4): S	SERUM IESCENT MICROPARTICLE	7.5 IMMUNOASSAY)	μgm/c	1L 4.87 - 12.60	
	TING HORMONE (TS		µIU/m	L 0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH conce	<i>ntrations</i> . TSH stimulates the p	roduction and secretion of the	0 pm. The variation is of the order of 50%.He metabolically active hormones, thyroxine ther underproduction (hypothyroidism) or	
CLINICAL CONDITION		T3	T4	TSH	
Primary Hypothyroidis		Reduced	Reduced	Increased (Significantly)	
Subclinical Hypothyroi	dism: No	rmal or Low Normal	Normal or Low Normal	High	

111	<i>ι</i> ιτΔ	TIO	NS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

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

Increased

Normal or High Normal





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Reduced (at times undetectable)

Reduced

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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50 9001 : 2008 CERT	IFIED LAD		a DIAGNOSTICS
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Test Name			Value	Unit	Biological Reference interva	
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 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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