



	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	crobiology)		(Pathology)
NAME	: Miss. AARYANA YADAV			
AGE/ GENDER	: 20 YRS/FEMALE		PATIENT ID	: 1583063
COLLECTED BY	:		REG. NO./LAB NO.	: 012408190010
REFERRED BY	:		REGISTRATION DATE	: 19/Aug/2024 09:06 AM
BARCODE NO.	: 01515293		COLLECTION DATE	: 19/Aug/2024 09:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Aug/2024 10:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCI	RINOLOGY	
	ТНҮ	ROID FUNC	TION TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM iescent microparticle immunoassa	0.796	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM iescent microparticle immunoassa	8.31 1	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	4.072	μIU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :				
day has influence on the trilodothyronine (T3).Fai		mulates the proc	duction and secretion of the me	m. The variation is of the order of 50%. Hence time of etabolically active hormones, thyroxine (T4)and er 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 levies 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





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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology)
NAME	: Miss. AARYANA YADAV		
AGE/ GENDER	: 20 YRS/FEMALE	PATIENT ID	: 1583063
COLLECTED BY	:	REG. NO./LAB NO.	: 012408190010
REFERRED BY	:	REGISTRATION DATE	: 19/Aug/2024 09:06 AM
BARCODE NO.	: 01515293	COLLECTION DATE	: 19/Aug/2024 09:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 19/Aug/2024 10:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval

Test Name			Value	Unit		Biological Reference inte
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	
	RECON	IMENDATIONS 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





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







	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Miss. AARYANA YADAV			
AGE/ GENDER	: 20 YRS/FEMALE	PAT	TENT ID	: 1583063
COLLECTED BY	:	REG	. NO./LAB NO.	: 012408190010
REFERRED BY			ISTRATION DATE	: 19/Aug/2024 09:06 AM
BARCODE NO.	: 01515293		LECTION DATE	0
				: 19/Aug/2024 09:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 19/Aug/2024 10:27AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
VITAMIN B12/COBA		VITAMIN B12/0 195	pg/mL	190.0 - 890.0
	ESCENT MICROPARTICLE IMMUNOAS	SAY)	pg/m2	170.0 070.0
INTERPRETATION:-	ESCENT MICROPARTICLE IMMUNOAS	SAY)	DECREASED VITAMIN	
INTERPRETATION:- INCREAS 1.Ingestion of Vitam	ED VITAMIN B12	1.Pregnancy	DECREASED VITAMIN	IB12
INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	ED VITAMIN B12 nin C gen	1.Pregnancy 2.DRUGS:Asp	DECREASED VITAMIN	IB12
INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	ED VITAMIN B12 nin C gen in A	1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	DECREASED VITAMIN	IB12
INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular in	ED VITAMIN B12 nin C gen nin A jury	1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep	DECREASED VITAMIN	IB12
INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia	ED VITAMIN B12 nin C gen nin A jury	1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracep 5.Haemodia 6. Multiple M	DECREASED VITAMIN Dirin, Anti-convulsants estion tive Harmones ysis tyeloma	IB12

the neurologic defects without macrocytic anemia. 6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

NoTE:A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 does not rule out tissue deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.

*** End Of Report ***



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

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

