



MD (Patho				n Chopra 9 (Pathology) 1 Pathologist	
NAME	: Miss. DIVYA				
AGE/ GENDER	: 23 YRS/FEMALE	PATI	ENT ID	: 1665762	
COLLECTED BY	:		NO./LAB NO.	: 012411080055	
REFERRED BY	:	REGI	STRATION DATE	: 08/Nov/2024 04:06 PM	
BARCODE NO.	: 01520385		ECTION DATE	: 08/Nov/2024 05:40PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 08/Nov/2024 04:45PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	<b>Biological Reference interval</b>	
ANEMIA ( DÉCRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemogle POLYCYTHEMIA (INCE POLYCYTHEMIA (INCE 1) People in higher a 2) Smoking (Secondau 3) Dehydration produ	rel is referred to as ANEMIA or le HAEMOGLOBIN): Imatic injury, surgery, bleeding ncy (iron, vitamin B12, folate) Iems (replacement of bone mar d blood cell synthesis by chemo obin structure (sickle cell anem REASED HAEMOGLOBIN): Ititudes (Physiological) ry Polycythemia) uces a falsely rise in hemoglobin	, colon cancer or stomac row by cancer) therapy drugs ia or thalassemia). n due to increased haeme			
<ul> <li>b) Certain tumors</li> <li>b) A disorder of the b</li> <li>c) Abuse of the drug</li> <li>c) Abuse of the drug</li> <li>c) Abuse and the drug</li> </ul>	ease (for example, emphysema) one marrow known as polycyth erythropoetin (Epogen) by athle e production of red blood cells <b>FED ON EDTA WHOLE BLOOD</b>	emia rubra vera, etes for blood doping pur	poses (increasing the	amount of oxygen available to the body by	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Ch MD (Pathology & Chairman & Con	nopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	<b>Biological Reference interval</b>
		PLATELET COU	NT (P/C)	
PLATELET COUNT by HYDRO DYNAMIC I MICROSCOPY	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	260000	/cmm	150000 - 450000





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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.



	Chairman & Co	v & Microbiology) onsultant Pathologist	MD CEO & Consultant	(Pathology) Pathologist
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Miss. DIVYA : 23 YRS/FEMALE : : : 01520385 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD	REG. 1 REGIS COLLI REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE RTING DATE	: 1665762 <b>: 012411080055</b> : 08/Nov/2024 05:14 PM : 08/Nov/2024 05:40PM : 08/Nov/2024 05:42PM
Test Name		Value	Unit	Biological Reference interva
by SLIDE AGGLUTINAT		POSITIVE		
	ł.	Juop		







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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:08/Nov/202405:50PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference inte	rval
		ENDOCRINO	DLOGY		
	TH	ENDOCRINO IYROID FUNCTION			
TRIIODOTHYRONI		IYROID FUNCTION 1.155		0.35 - 1.93	
TRIIODOTHYRONI by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM iescent microparticle immunoa	IYROID FUNCTION 1.155 ISSAY) 8.55	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM iescent microparticle immunoa SERUM iescent microparticle immunoa ATING HORMONE (TSH): SERU	IYROID FUNCTION 1.155 ISSAY) 8.55 ISSAY) UM 0.512	T <b>EST: TOTAL</b> ng/mL		
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOA SERUM IESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SERU IESCENT MICROPARTICLE IMMUNOA	IYROID FUNCTION 1.155 ISSAY) 8.55 ISSAY) UM 0.512	T <b>EST: TOTAL</b> ng/mL μgm/dL	4.87 - 12.60	
TRIIODOTHYRONII by CMIA (CHEMILUMI THYROXINE (T4): S by CMIA (CHEMILUMI THYROID STIMULA by CMIA (CHEMILUMI 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to a day has influence on the triiodothyronine (T3).Fai	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOA SERUM IESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SERU IESCENT MICROPARTICLE IMMUNOA RASENSITIVE circadian variation, reaching peak level	IVROID FUNCTION 1.155 (SSAY) 8.55 (SSAY) UM 0.512 (SSAY) (SSAY) (Souther State of the st	TEST: TOTAL ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 . <i>The variation is of the order of 50%.Hence tim</i> tabolically active hormones, thyroxine (T4)and	e 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 (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





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Test Name		Value Unit		Biological Reference inter		
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	
	RECO	VIMENDATIONS 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, 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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