



		Chopra v & Microbiology) onsultant Pathologis		(Pathology)
NAME	: Mrs. VANDANA DANG			
AGE/ GENDER	: 40 YRS/FEMALE		PATIENT ID	: 1816229
<b>COLLECTED BY</b> : SURJESH		REG. NO./LAB NO.		: 012504030015
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 03/Apr/2025 09:51 AM
BARCODE NO.	: 01528271		<b>COLLECTION DATE</b>	:03/Apr/2025 10:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 03/Apr/2025 10:23AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
HAEMOGLOBIN (H	IB)	11.8 <sup>L</sup>	gm/dL	12.0 - 16.0
by CALORIMETRIC INTERPRETATION:-				
tissues back to the lu A low hemoglobin lev <b>ANEMIA (DECRESED</b> 1) Loss of blood (trat 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by re 5) Kidney failure	Ings. /el is referred to as ANEMIA or	low red blood cour g, colon cancer or s nrrow by cancer) otherapy drugs	nt. stomach ulcer)	odys tissues and returns carbon dioxide from t
POLYCYTHEMIA (INČI 1) People in higher a 2) Smoking (Seconda 3) Dehydration prod	REASED HAEMOGLOBIN): Ititudes (Physiological)	in due to increased		
6) A disorder of the k	oone marrow known as polycyt erythropoetin (Epogen) by athl	hemia rubra vera, letes for blood dopi	ing purposes (increasing the	e amount of oxygen available to the body by

KOS Diagnostic Lab (A Unit of KOS Healthcare)

/) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the amount of oxygen available chemically raising the production of red blood cells).

## NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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	MD (Pathology & Micro	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		r <b>Chopra</b> (Pathology) Pathologist	
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Test Name			Unit	Biological Reference interval	
			KINOLOG Y TION TEST: TOTAL		
	THYROI	DIUNC			
		0.425	ng/mL	0.35 - 1.93	
THYROXINE (T4):	INE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)			0.35 - 1.93 4.87 - 12.60	

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	





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			/
Test Name	Value	Unit	<b>Biological Reference interval</b>

Test Name		Value	Unit		<b>Biological Reference interval</b>	
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 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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