



		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. SANTOSH			
AGE/ GENDER	: 50 YRS/FEMALE	PA	TIENT ID	: 1806733
COLLECTED BY	:	RI	EG. NO./LAB NO.	: 012503260032
<b>REFERRED BY</b>	:	RI	EGISTRATION DATE	: 26/Mar/2025 09:37 AM
BARCODE NO.	:01527792	CC	<b>LLECTION DATE</b>	: 26/Mar/2025 09:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 26/Mar/2025 10:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
HAEMOCI ORIN (H	(B)	HAEMOGL		12.0 - 16.0
HAEMOGLOBIN (H	IB)	11.8 <sup>L</sup>	gm/dL	12.0 - 16.0
tissues back to the lu	ings. /el is referred to as ANEMIA or	50	from the lungs to the b	odys tissues and returns carbon dioxide from t
<ol> <li>Loss of blood (trat</li> <li>Nutritional deficie</li> <li>Bone marrow prob</li> </ol>	Imatic injury, surgery, bleedin ncy (iron, vitamin B12, folate) plems (replacement of bone m d blood cell synthesis by chem	arrow by cancer)	nach ulcer)	
5) Kidney failure 6) Abnormal hemogl POLYCYTHEMIA (INCI	obin structure (sickle cell ane REASED HAEMOGLOBIN):	15 0		
<ol> <li>People in higher a</li> <li>Smoking (Seconda</li> <li>Dehydration production</li> </ol>	Ititudes (Physiological)	bin due to increased ha	emoconcentration	
6) A disorder of the b	oone marrow known as polycy erythropoetin (Epogen) by ath	themia rubra vera, lletes for blood doping	ourposes (increasing the	e amount of oxygen available to the body by

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

## NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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







150 9001 : 2008 CERTI	KOS Diagno (A Unit of KOS	<b>Stic Lab</b> Healthcare)	EXCELLENCE IN HEALTHCARE		
	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SANTOSH : 50 YRS/FEMALE : : : 01527792 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM	REG REG COL REP	IENT ID . NO./LAB NO. ISTRATION DATE LECTION DATE ORTING DATE	: 1806733 <b>: 012503260032</b> : 26/Mar/2025 09:41 AM : 26/Mar/2025 09:45AM : 26/Mar/2025 10:12AM	
Test Name		Value	Unit	Biological Reference interval	
MICROSCOPY		PLATELET CO 170000	DUNT (P/C) /cmm		
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIO		T PATHOLOGIST		

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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CI IENT CODE	: KOS DIAGNOSTIC LAB	DFD	ORTING DATE	: 26/Mar/2025 11:51AM
CLIENT CODE.	. NOS DIAGNOSTIC LAD	KEF	ONTING DATE	
	: 6349/1, NICHOLSON ROA			
CLIENT CODE. CLIENT ADDRESS Test Name			Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT	Unit Y/BIOCHEMIS	Biological Reference interval

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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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CLIENT CODE.	: KOS DIAGNOSTIC LAB	]	REPORTING DATE	:26/Mar/2025 11:10AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		URIC	CACID	
URIC ACID: SERUN by URICASE - OXIDAS		4.4	mg/dL	2.50 - 6.80





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BARCODE NO.	: 01527792		COLLECTION DATE	: 26/Mar/2025 09:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 26/Mar/2025 11:36AM
Test Name		Value ENDOC	Unit	Biological Reference interva
Test Name	THY	ENDOC	Unit RINOLOGY TION TEST: TOTAL	Biological Reference interva
TRIIODOTHYRON		ENDOC ROID FUNC 0.811	RINOLOGY	<b>Biological Reference interva</b> 0.35 - 1.93
THYROXINE (T4):	INE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASS	ENDOC ROID FUNC 0.811 SAY) 6.7	RINOLOGY TION TEST: TOTAL	

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.

TRIIODOTH	(RONINE (T3)	THYROX	INE (T4)	THYROID STIMUL	ATING 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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist		(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name			Value	Unit	t	<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	
	RECO	MMENDATIONS 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





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NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SANTOSH : 50 YRS/FEMALE : : : 01527792 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	AMBALA CANTT	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1806733 <b>: 012503260032</b> : 26/Mar/2025 09:37 AM : 26/Mar/2025 09:45AM : 27/Mar/2025 10:03AM
Test Name		Value	Unit	<b>Biological Reference interval</b>
RHEUMATOID (RA			DLOGY/SEROLOG RA): QUANTITATIVE IU/mL	
2. Over 75% of patien useful although it may	s (RF) are antibodies that are dire	ected against the ) have an IgM an RA.	tibody to IgG immunoglobu	Ilin. This autoantibody (RF) is diagnostically
<ol> <li>The titer of RF corrections.</li> <li>The test is useful for RHEUMATOID ARTHIRI</li> <li>Rheumatoid Arthirimembrane lining (synthematoid Arthirimembrane lining (synthematoid Arthirimembrane lining).</li> <li>The disease spredations of RA measurement of RA factor is not specific to the synthematoid Arthirimembrane lining.</li> </ol>	elates poorly with disease activit or diagnosis and prognosis of rh ITIS: itis is a systemic autoimmune di iovium) joints which ledas to pro s from small to large joints, with A is primarily based on clinical, r ictor. TVE):- cific for Rheumatoid arthiritis, as i	ty, but those pati- eumatoid arthrit isease that is mu ogressive joint do n greatest damag radiological & im it is often present	ents with high titers tend to is. Iti-functional in origin and i estruction and in most case e in early phase. munological features.The m <i>in healthy individuals with o</i>	have more severe disease course. s characterized by chronic inflammation of the s to disability and reduction of quality life. nost frequent serological test is the ther autoimmune diseases and chronic infections
RA patients have a nor 3. Patients with variou lupus erythematosus, 4. Anti-CCP have been specific (98%) than RA 5. Upto 30 % of patien	nreactive titer and 8% of nonrheu is nonrheumatoid diseases,charac polymyositis, tuberculosis, syphili discovered in joints of patients w	Imatoid patients I cterized by chronic s, viral hepatitis, I ith RA, but not in d arthiritis also shi	nave a positive titer). c inflammation may have pos infectious mononucleosis, an other form of joint disease.A ow Anti-CCP antibodies.	nti-CCP2 is HIGHLY SENSITIVE (71%) & more
			labor	



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CLIENT ADDRESS	$\cdot 6349/1$ NICHOI SON RO	ΔΟ ΔΜΒΔΙΔ ΓΔΝΤΤ		
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT Value	Unit	Biological Reference interval
				Biological Reference interval
Test Name	W PHI O	Value		<b>Biological Reference interval</b> 1 : 80
Test Name SALMONELLA TY by SLIDE AGGLUTINA	<b>W</b> РНІ О <i>тіон</i> РНІ Н	Value IDAL SLIDE AGGLU	TINATION TEST	
Test Name SALMONELLA TY by SLIDE AGGLUTINA SALMONELLA TY	W PHI O <i>tion</i> PHI H <i>tion</i> RATYPHI AH	Value IDAL SLIDE AGGLU 1 : 20	TINATION TEST TITRE	1:80

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## **INTERPRETATION:**

1. Titres of 1:80 or more for "O" agglutinin is considered significant.

2. Titres of 1:160 or more for "H" agglutinin is considered significant.

#### LIMITATIONS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Agglutinins usually appear by 5th to 6th day of illness of enteric fever, hence a negative result in early stage is inconclusive. The titre then rises till 3rd or 4th week, after which it declines gradually.

2.Lower titres may be found in normal individuals.

3.A single positive result has less significance than the rising agglutination titre, since demonstration of rising titre four or more in 1st and 3rd week is considered as a definite evidence of infection.

4.A simultaneous rise in H agglutinins is suggestive of paratyphoid infection.

### NOTE:

1. Individuals with prior infection or immunization with TAB vaccine may develop an ANAMNESTIC RESPONSE (False-Positive) during an unrelated fever *i.e.* High titres of antibodies to various antigens. This may be differentiated by repitition of the test after a week.

2. The anamnestic response shows only a transient rise, while in enteric fever rise is sustained.

3.H agglutinins tend to persist for many months after vaccination but O agglutinins tend to disappear sooner i.e within 6 months. Therefore rise in Oagglutinins indicate recent infection.

# \*\*\* End Of Report \*\*\*





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