



	MD (Path	ay Chopra ology & Microbiology) & Consultant Pathologist	Dr. Yugam MD (F CEO & Consultant P	Pathology)
NAME	: Mrs. SITA RANI			
AGE/ GENDER	: 30 YRS/FEMALE	PATIE	NT ID	: 1743104
COLLECTED BY	:	REG. I	NO./LAB NO.	: 012502020039
REFERRED BY	:	REGIS	TRATION DATE	:02/Feb/2025 11:30 AM
BARCODE NO.	:01524820	COLLI	ECTION DATE	:02/Feb/2025 11:33AM
CLIENT CODE.	: KOS DIAGNOSTIC LAI	REPO	RTING DATE	:02/Feb/202501:39PM
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	C	LINICAL CHEMISTRY/	['] BIOCHEMISTR	RY
	C	LINICAL CHEMISTRY/ CHOLESTEROL		εγ.
CHOLESTEROL TO by CHOLESTEROL O	TAL: SERUM			OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
	TAL: SERUM	CHOLESTEROL	: SERUM	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =

NATIONAL LIPID ASSOCIATION RECOMMENDATIONS (NLA-2014)	CHOLESTEROL IN ADULTS (mg/dL)	CHOLESTEROL IN ADULTS (mg/dL)
DESIRABLE	< 200.0	< 170.0
BORDERLINE HIGH	200.0 - 239.0	171.0 - 199.0
HIGH	>= 240.0	>= 200.0

NOTE:

 Molection
 Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.
 As per National Lipid association - 2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol. high total cholesterol is recommended.





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Test Name			Value	Unit	Biological Reference interval
			URIC	ACID	
URIC ACID: SERUN	1		5.16	mg/dL	2.50 - 6.80
WUDICASE OVIDA				0	
INTERPRETATION:- 1.GOUT occurs when 2.Uric Acid is the end intestinal tract by m INCREASED:- (A).DUE TO INCREASE	d product of puri icrobial degrada ED PRODUCTION:	ne metabolism . Uric ac tion.		o form & accumulate and I to a large degree by the	ound a joint. • kidneys and to a smaller degree in the
INTERPRETATION:- 1.GOUT occurs when 2.Uric Acid is the end intestinal tract by m INCREASED:- (A).DUE TO INCREASI 1.Idiopathic primary 2.Excessive dietary p 3.Cytolytic treatmer 4.Polycythemai vera 5.Psoriasis. 6.Sickle cell anaemia (B).DUE TO DECREAS 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis. 4.Aspirin ingestion (5.Diabetic keloacido 6.Renal failure due t DECREASED:- (A).DUE TO DIETARY 1.Dietary deficiency 2.Fanconi syndrome 3.Multiple sclerosis	h high levels of U d product of puri icrobial degrada ED PRODUCTION: gout. uurines (organ mu t of malignancie & myeloid meta e etc. ED EXCREATION (less than 2 gram posis or starvation o any cause etc. DEFICIENCY of Zinc, Iron and & Wilsons disea	ne metabolism . Uric ac tion. - eats,legumes,anchovies s especially leukemais & plasia. BY KIDNEYS) s per day). n. molybdenum.	id is excreted , etc). & lymphomas	I to a large degree by the	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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BARCODE NO.	:01524820		COLLECTION DATE	: 02/Feb/2025 11:33AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Feb/2025 01:51PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	т	
Test Name		Value	Unit	Biological Reference interva
	Т		C RINOLOGY CTION TEST: TOTAI	
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOA	0.959 ISSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): S	SERUM VESCENT MICROPARTICLE IMMUNOA	8.15 ISSAY)	µgm/d	L 4.87 - 12.60
	ATING HORMONE (TSH): SER		µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT	RASENSITIVE			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations. T	SH stimulates the p	production and secretion of the	<i>pm. The variation is of the order of 50%.Hence time of</i> metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis			Reduced	Increased (Significantly)
Subclinical Hypothyroi	dism: Normal or Lov	v Normal	Normal or Low Normal	High

LIMITATIONS:-

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	Г	

Test Name			Value	Unit	t	Biological Reference interval
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, 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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TITRE

1:160

		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT			
Test Name		Value	Unit	Biological Reference into	erval
	IM	MUNOPATHOLO	GY/SEROLOGY		
	W	IDAL SLIDE AGGLU	TINATION TEST		
SALMONELLA TYP by SLIDE AGGLUTINA		NIL	TITRE	1:80	
SALMONELLA TYP by SLIDE AGGLUTINA		NIL	TITRE	1:160	
SALMONELLA PAR by SLIDE AGGLUTINA		NIL	TITRE	1:160	

SALMONELLA PARATYPHI BH by SLIDE AGGLUTINATION

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:

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.

NIL

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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