



		Chopra / & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. ANIL KUMAR			
AGE/ GENDER	: 51 YRS/MALE	P	ATIENT ID	: 1728485
COLLECTED BY	:	R	EG. NO./LAB NO.	: 012501200006
REFERRED BY	:	R	EGISTRATION DATE	: 20/Jan/2025 08:58 AM
BARCODE NO.	: 01524107	C	OLLECTION DATE	: 20/Jan/2025 09:42AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 20/Jan/2025 11:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CUN	ICAI CHEMIST	RY/BIOCHEMIST	'RV
	Chit	LIPID PROF		
CHOLESTEROL TOT	AI · SEDIM	233.48 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		233.48"	ling/ uL	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SH	ERUM	157.01 ^H	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)		0	BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
HDL CHOLESTEROL by SELECTIVE INHIBITI		45.5	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBITI				BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTEROL by CALCULATED, SPEC		156.58 ^H	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPEC	STROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLEST	EROL: SERUM	187.98 ^H	mg/dL	OPTIMAL: < 130.0
by CALCULATED, SPE		107.50	ing, ui	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 - 189.0
				HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTERO by CALCULATED, SPEC		31.4	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SER	UM	623.97	mg/dL	350.00 - 700.00
WCALCHIATED SDE	CTROPHOTOMETRY	a doll		
-		5.13 ^H	RATIO	LOW RISK: 3.30 - 4.40
CHOLESTEROL/HD by CALCULATED, SPEC		5.15		AVERAGE RISK: 4.50 - 7.0



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Cł MD (Pathology	& Microbiology)		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. ANIL KUMAR : 51 YRS/MALE : : 01524107 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	RE RE CO RE	CEO & Consultant TIENT ID G. NO./LAB NO. GISTRATION DATE LLECTION DATE PORTING DATE	: 1728485 : 012501200006 : 20/Jan/2025 08:58 AM : 20/Jan/2025 09:42AM : 20/Jan/2025 11:39AM
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: SE by CALCULATED, SPEC TRIGLYCERIDES/HI by CALCULATED, SPEC	CTROPHOTOMETRY DL RATIO: SERUM	3.44^H 3.45	RATIO RATIO	MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 3.00 - 5.00

INTERPRETATION:

1. 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. 2. As per NLA-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 is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available

to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL &Non HDL.

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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	MD (Pathology	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		m Chopra D (Pathology) nt Pathologist		
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 20/Jan/2025 10:55AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANT	Т			
Test Name		Value	Unit	Biological Refer	ence interval	
	Т		CRINOLOGY CTION TEST: TOTAI			
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNC	0.872 ASSAY)	ng/mL	0.35 - 1.93		
THYROXINE (T4): S	SERUM iescent microparticle immunc	8.26 ASSAY)	µgm/d	L 4.87 - 12.60		
	ATING HORMONE (TSH): SEI		µIU/m	L 0.35 - 5.50		
3rd GENERATION, ULT	RASENSITIVE					
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the p	production and secretion of the	pm. The variation is of the order of 50 metabolically active hormones, thyro her underproduction (hypothyroidisr	oxine (T4)and	
CLINICAL CONDITION	T3		T4	TSH		
Primary Hypothyroidis			Reduced	Increased (Significantly)		
Subclinical Hypothyroi	dism: Normal or Lo	w Normal	Normal or Low Normal	High		

111	ΛΙΤΔ	лтіс)NS:	-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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





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Test Name		Value Ur		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 L	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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