

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



Dr. Vinay Cho MD (Pathology & N Chairman & Consu				Pathology)	
NAME	: Mr. GAGANDEEP SINGH				
AGE/ GENDER	: 46 YRS/MALE		PATIENT ID	: 1814925	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012504020020	
REFERRED BY	:		REGISTRATION DATE	: 02/Apr/2025 10:34 AM	
BARCODE NO.	: 01528207		COLLECTION DATE	: 02/Apr/2025 10:44AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 02/Apr/2025 12:52PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLINI	CAL CHEMIS	TRY/BIOCHEMIS	STRY	
		LIPID PRO	DFILE : BASIC		
CHOLESTEROL TO by CHOLESTEROL OX		209.31 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =	
		, T	/ 11	240.0	
TRIGLYCERIDES: 5 by GLYCEROL PHOSP	SERUM HATE OXIDASE (ENZYMATIC)	156.73 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0	
				VERY HIGH: $>$ OR $=$ 500.0	
HDL CHOLESTERC	DL (DIRECT): SERUM Ion	41.95	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: $> OR = 60.0$	
LDL CHOLESTERO by CALCULATED, SPE		136.01 ^H	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0	
				HIGH: 160.0 - 189.0	
NON HDL CHOLES by CALCULATED, SPE		167.36 ^H	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0	
VLDL CHOLESTER	OL: SERUM	31.35	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00	
by CALCULATED, SPE	CTROPHOTOMETRY		-	0.00 15.00	
TOTAL LIPIDS: SE		575.35	mg/dL	350.00 - 700.00	
			0		

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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Test Name		Value	Unit	Biological Reference interval
CHOLESTEROL/HI by CALCULATED, SPE		4.99 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by Calculated, spe		3.24 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	HDL RATIO: SERUM	3.74	RATIO	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.

 Cow 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.
 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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Test Name		Value	Unit	Biological Reference interva
THYROID STIMUI		ROID STIMULA	RINOLOGY TING HORMONE (Τ μIU/mL	'SH) 0.35 - 5.50
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ATING HORMONE (TSH):	ROID STIMULA SERUM 8.639H	TING HORMONE (T	
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by CMIA (CHEMILUMI) 3rd GENERATION, ULT	LATING HORMONE (TSH): NESCENT MICROPARTICLE IMMUN RASENSITIVE	ROID STIMULA SERUM 8.639H	TING HORMONE (Τ μIU/mL	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ATING HORMONE (TSH): iescent microparticle immun rasensitive AGE	ROID STIMULA SERUM 8.639H	TING HORMONE (Π μIU/mL REFFERENCE RANGE	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMI) 3rd GENERATION, ULT	ATING HORMONE (TSH): NESCENT MICROPARTICLE IMMUN TRASENSITIVE AGE 0 – 5 DAYS	ROID STIMULA SERUM 8.639H	TING HORMONE (T μIU/mL REFFERENCE RANGE 0.70 – 15.20	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ATING HORMONE (TSH): NESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months	ROID STIMULA SERUM 8.639H	TING HORMONE (T μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMI) 3rd GENERATION, ULT	ATING HORMONE (TSH): NESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ROID STIMULA SERUM 8.639H	TING HORMONE (T μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	0.35 - 5.50 (µlU/mL)
by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ATING HORMONE (TSH): NESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ROID STIMULA SERUM 8.639H	TING HORMONE (T μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50	0.35 - 5.50 (µlU/mL)
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by CMIA (CHEMILUMIN 3rd GENERATION, ULT	ATING HORMONE (TSH): NESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults) 1st Trimester	ROID STIMULA SERUM 8.639 ^H OASSAY)	TING HORMONE (T μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50 0.10 - 3.00	0.35 - 5.50 (µlU/mL)
	ATING HORMONE (TSH): NESCENT MICROPARTICLE IMMUN RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	ROID STIMULA SERUM 8.639 ^H OASSAY)	TING HORMONE (T μIU/mL REFFERENCE RANGE 0.70 – 15.20 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50	0.35 - 5.50 (µlU/mL)

USE:- TSH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality. **INCREASED LEVELS**:

1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis.

4.DRUGS: Amphetamines, lodine containing agents and dopamine antagonist.

5. Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

DECREASED LEVELS:

1. Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.



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			/
Test Name		Value Unit	Biological Reference interval

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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Test Name		Value	Unit	Biological Reference interval
	IMMU	JNOPATH	OLOGY/SEROLOG	SY
	CARDIO/HIGHLY	SENSITIV	E C- RECATIVE PROT	TEIN (hs-CRP)
CARDIO/HIGHLY S (HS-CRP)	SENSITIVE C-REACTIVE PRO	TEIN 3.5H	mg/L	0.00 - 3.00

CARDIO/HIGHLY SENSTIVE CRP (hs-CRP) IN mg/L	CARDIOVASCULAR RISK		
<1	LOW		
1 - 3	AVERAGE		
3 - 10	HIGH		
>10	PERSISTENT ELEVATION MAY REPRESENT NON CARDIOVASCULAR INFLAMMATION		

NOTE:

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To assess vascular risk, it is recommended to test hsCRP levels 2 or more weeks apart and calculate the average

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COMMENTS:

High sensitivity C Reactive Protein (hsCRP) significantly improves cardiovascular risk assessment as it is a strongest predictor of future coronary events. It reveals the risk of future Myocardial infarction and Stroke among healthy men and women, independent of traditional risk factors. It identifies patients at risk of first Myocardial infarction even with low to moderate lipid levels. The risk of recurrent cardiovascular events also correlates well with hs CRP levels. It is a powerful independent risk determinant in the prediction of incident Diabetes





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Test Name		Value	Unit	Biological Reference interval		
	RHEUMATOID	FACTOR (I	RA): QUANTITATIVI	E - SERUM		
RHEUMATOID (RA) SERUM by NEPHLOMETRY	FACTOR QUANTITATIVE:	35.89 ^H	IU/mL	NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0		
SERUM BORDERLINE: 18.0 - 25.0						

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