

(A Unit of KOS Healthcare)



Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

NAME : Mr. UDIT JINDAL

AGE/ GENDER : 34 YRS/MALE **PATIENT ID** : 1694324

COLLECTED BY : SURJESH :012412090012 REG. NO./LAB NO.

REFERRED BY **REGISTRATION DATE** : 09/Dec/2024 10:35 AM BARCODE NO. :01522191 **COLLECTION DATE** : 09/Dec/2024 11:49AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 09/Dec/2024 01:05PM

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

Value Unit **Test Name Biological Reference interval**

CLINICAL CHEMISTRY/BIOCHEMISTRY

LIPID PROFILE: BASIC

CHOLESTEROL TOTAL: SERUM 182.31 OPTIMAL: < 200.0 mg/dL

by CHOLESTEROL OXIDASE PAP BORDERLINE HIGH: 200.0 -

239.0 HIGH CHOLESTEROL: > OR =

240.0

OPTIMAL: < 150.0 TRIGLYCERIDES: SERUM 159.67^H mg/dL by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) **BORDERLINE HIGH: 150.0 -**

199.0

HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0

HDL CHOLESTEROL (DIRECT): SERUM LOW HDL: < 30.0 34.68 mg/dL

by SELECTIVE INHIBITION BORDERLINE HIGH HDL: 30.0 -

60.0

 $HIGH\ HDL: > OR = 60.0$

LDL CHOLESTEROL: SERUM OPTIMAL: < 100.0 115.7 mg/dL

by CALCULATED, SPECTROPHOTOMETRY

ABOVE OPTIMAL: 100.0 - 129.0

BORDERLINE HIGH: 130.0 -

HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0

NON HDL CHOLESTEROL: SERUM 147.63^H mg/dL OPTIMAL: < 130.0

by CALCULATED, SPECTROPHOTOMETRY ABOVE OPTIMAL: 130.0 - 159.0

BORDERLINE HIGH: 160.0 -

189.0

HIGH: 190.0 - 219.0

VERY HIGH: > OR = 220.0 VLDL CHOLESTEROL: SERUM 31.93 mg/dL 0.00 - 45.00

by CALCULATED, SPECTROPHOTOMETRY

TOTAL LIPIDS: SERUM 524.29 mg/dL 350.00 - 700.00

by CALCULATED, SPECTROPHOTOMETRY 5.26^H CHOLESTEROL/HDL RATIO: SERUM RATIO LOW RISK: 3.30 - 4.40

AVERAGE RISK: 4.50 - 7.0



by CALCULATED, SPECTROPHOTOMETRY

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





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Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.34 ^H	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
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	4.6	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.

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

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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ENDOCRINOLOGY THYROID STIMULATING HORMONE (TSH)

THYROID STIMULATING HORMONE (TSH): SERUM 2.223 µIU/mL 0.35 - 5.50

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

3rd GENERATION, ULTRASENSITIVE

INTERPRETATION:

AGE	REFFERENCE RANGE (μIU/mL)		
0 – 5 DAYS	0.70 - 15.20		
6 Days – 2 Months	0.70 - 11.00		
3 – 11 Months	0.70 - 8.40		
1 – 5 Years	0.70 - 7.00		
6 – 10 Years	0.60 - 5.50		
11 - 15	0.50 - 5.50		
> 20 Years (Adults)	0.27 - 5.50		
Pi	REGNANCY		
1st Trimester	0.10 - 3.00		
2nd Trimester	0.20 - 3.00		
3rd Trimester	0.30 - 4.10		

NOTE:-TSH levels are subjected to circardian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50 %. Hence time of the day has influence on the measured serum TSH concentration.

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, Iodine 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.
- 7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.



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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.

*** End Of Report **



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