

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

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

|                       |  |                          |                        |
|-----------------------|--|--------------------------|------------------------|
| <b>NAME</b>           | : Mr. SANDEEP                          | <b>PATIENT ID</b>        | : 1719871              |
| <b>AGE/ GENDER</b>    | : 34 YRS/MALE                          | <b>REG. NO./LAB NO.</b>  | : 012501090041         |
| <b>COLLECTED BY</b>   | :                                      | <b>REGISTRATION DATE</b> | : 09/Jan/2025 12:20 PM |
| <b>REFERRED BY</b>    | :                                      | <b>COLLECTION DATE</b>   | : 09/Jan/2025 12:21PM  |
| <b>BARCODE NO.</b>    | : 01523683                             | <b>REPORTING DATE</b>    | : 09/Jan/2025 01:51PM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
| <b>CLIENT ADDRESS</b> | : 6349/1, NICHOLSON ROAD, AMBALA CANTT |                          |                        |

| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|-------------------------------|
|-----------|-------|------|-------------------------------|

## CLINICAL CHEMISTRY/BIOCHEMISTRY

### LIPID PROFILE : BASIC

|  |                     |       |  |
|--|---------------------|-------|--|
| CHOLESTEROL TOTAL: SERUM<br><i>by CHOLESTEROL OXIDASE PAP</i>            | 214.87 <sup>H</sup> | mg/dL | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: > OR = 240.0   |
| TRIGLYCERIDES: SERUM<br><i>by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)</i> | 143.72              | mg/dL | OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 - 199.0<br>HIGH: 200.0 - 499.0<br>VERY HIGH: > OR = 500.0                                 |
| HDL CHOLESTEROL (DIRECT): SERUM<br><i>by SELECTIVE INHIBITION</i>        | 49.6                | mg/dL | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 - 60.0<br>HIGH HDL: > OR = 60.0   |
| LDL CHOLESTEROL: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i>        | 136.53 <sup>H</sup> | mg/dL | OPTIMAL: < 100.0<br>ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 - 159.0<br>HIGH: 160.0 - 189.0<br>VERY HIGH: > OR = 190.0 |
| NON HDL CHOLESTEROL: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i>    | 165.27 <sup>H</sup> | mg/dL | OPTIMAL: < 130.0<br>ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 - 189.0<br>HIGH: 190.0 - 219.0<br>VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTEROL: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i>       | 28.74               | mg/dL | 0.00 - 45.00   |
| TOTAL LIPIDS: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i>           | 573.46              | mg/dL | 350.00 - 700.00  |
| CHOLESTEROL/HDL RATIO: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i>  | 4.33                | RATIO | LOW RISK: 3.30 - 4.40<br>AVERAGE RISK: 4.50 - 7.0  |



  
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|---|------------------|-------|--|
| LDL/HDL RATIO: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i>           | 2.75             | RATIO | MODERATE RISK: 7.10 - 11.0<br>HIGH RISK: > 11.0<br>LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0 |
| TRIGLYCERIDES/HDL RATIO: SERUM<br><i>by CALCULATED, SPECTROPHOTOMETRY</i> | 2.9 <sup>L</sup> | RATIO | 3.00 - 5.00  |

**INTERPRETATION:**

- 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 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.
- 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.
- NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogenic lipoproteins such as LDL, VLDL, IDL, Lp(a), 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.
- Additional testing for Apolipoprotein B, hsCRP, Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement

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



  
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