

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

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

|                       |  |                          |                        |
|-----------------------|--|--------------------------|------------------------|
| <b>NAME</b>           | : Mr. AMANDEEP SINGH                   | <b>PATIENT ID</b>        | : 1693992              |
| <b>AGE/ GENDER</b>    | : 34 YRS/MALE                          | <b>REG. NO./LAB NO.</b>  | : 012412080025         |
| <b>COLLECTED BY</b>   | :                                      | <b>REGISTRATION DATE</b> | : 08/Dec/2024 12:03 PM |
| <b>REFERRED BY</b>    | :                                      | <b>COLLECTION DATE</b>   | : 08/Dec/2024 12:13PM  |
| <b>BARCODE NO.</b>    | : 01522163                             | <b>REPORTING DATE</b>    | : 08/Dec/2024 12:17PM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
| <b>CLIENT ADDRESS</b> | : 6349/1, NICHOLSON ROAD, AMBALA CANTT |                          |                        |

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

**HAEMATOLOGY**  
**COMPLETE BLOOD COUNT (CBC)**


**RED BLOOD CELLS (RBCS) COUNT AND INDICES**


|   |                         |              |  |
|---|-------------------------|--------------|--|
| HAEMOGLOBIN (HB)<br><i>by CALORIMETRIC</i>  | 13.4                    | gm/dL        | 12.0 - 17.0  |
| RED BLOOD CELL (RBC) COUNT<br><i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDEANCE</i>             | <b>5.19<sup>H</sup></b> | Millions/cmm | 3.50 - 5.00  |
| PACKED CELL VOLUME (PCV)<br><i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i>                 | 42.1                    | %            | 40.0 - 54.0  |
| MEAN CORPUSCULAR VOLUME (MCV)<br><i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i>            | 81.2                    | fL           | 80.0 - 100.0   |
| MEAN CORPUSCULAR HAEMOGLOBIN (MCH)<br><i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i>       | <b>25.9<sup>L</sup></b> | pg           | 27.0 - 34.0  |
| MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)<br><i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | <b>31.9<sup>L</sup></b> | g/dL         | 32.0 - 36.0  |
| RED CELL DISTRIBUTION WIDTH (RDW-CV)<br><i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i>     | 14.9                    | %            | 11.00 - 16.00  |
| RED CELL DISTRIBUTION WIDTH (RDW-SD)<br><i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i>     | 45.1                    | fL           | 35.0 - 56.0  |
| MENTZERS INDEX<br><i>by CALCULATED</i>  | 15.65                   | RATIO        | BETA THALASSEMIA TRAIT: < 13.0<br>IRON DEFICIENCY ANEMIA: >13.0  |
| GREEN & KING INDEX<br><i>by CALCULATED</i>  | 23.38                   | RATIO        | BETA THALASSEMIA TRAIT:<= 65.0<br>IRON DEFICIENCY ANEMIA: > 65.0 |

**WHITE BLOOD CELLS (WBCS)**

|  |                          |      |              |
|--|--------------------------|------|--------------|
| TOTAL LEUCOCYTE COUNT (TLC)<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>          | <b>11610<sup>H</sup></b> | /cmm | 4000 - 11000 |
| NUCLEATED RED BLOOD CELLS (nRBCS)<br><i>by AUTOMATED 6 PART HEMATOLOGY ANALYZER</i>          | NIL                      |      | 0.00 - 20.00 |
| NUCLEATED RED BLOOD CELLS (nRBCS) %<br><i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | NIL                      | %    | < 10 %       |



  
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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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| <b><u>DIFFERENTIAL LEUCOCYTE COUNT (DLC)</u></b>  |                          |      |                               |
| NEUTROPHILS<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>                         | 60                       | %    | 50 - 70                       |
| LYMPHOCYTES<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>                         | 30                       | %    | 20 - 40                       |
| EOSINOPHILS<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>                         | 2                        | %    | 1 - 6                         |
| MONOCYTES<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>                           | 8                        | %    | 2 - 12                        |
| BASOPHILS<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>                           | 0                        | %    | 0 - 1                         |
| <b><u>ABSOLUTE LEUKOCYTES (WBC) COUNT</u></b>   |                          |      |                               |
| ABSOLUTE NEUTROPHIL COUNT<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>           | 6966                     | /cmm | 2000 - 7500                   |
| ABSOLUTE LYMPHOCYTE COUNT<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>           | 3483                     | /cmm | 800 - 4900                    |
| ABSOLUTE EOSINOPHIL COUNT<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>           | 232                      | /cmm | 40 - 440                      |
| ABSOLUTE MONOCYTE COUNT<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>             | <b>929<sup>H</sup></b>   | /cmm | 80 - 880                      |
| ABSOLUTE BASOPHIL COUNT<br><i>by FLOW CYTOMETRY BY SF CUBE &amp; MICROSCOPY</i>             | 0                        | /cmm | 0 - 110                       |
| <b><u>PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.</u></b>                              |                          |      |                               |
| PLATELET COUNT (PLT)<br><i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i>              | 406000                   | /cmm | 150000 - 450000               |
| PLATELETCRIT (PCT)<br><i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i>                | <b>0.39<sup>H</sup></b>  | %    | 0.10 - 0.36                   |
| MEAN PLATELET VOLUME (MPV)<br><i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i>        | 10                       | fL   | 6.50 - 12.0                   |
| PLATELET LARGE CELL COUNT (P-LCC)<br><i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | <b>96000<sup>H</sup></b> | /cmm | 30000 - 90000                 |
| PLATELET LARGE CELL RATIO (P-LCR)<br><i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 23.7                     | %    | 11.0 - 45.0                   |
| PLATELET DISTRIBUTION WIDTH (PDW)<br><i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 15.8                     | %    | 15.0 - 17.0                   |

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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**CLINICAL CHEMISTRY/BIOCHEMISTRY**

**LIPID PROFILE : BASIC**

|   |                           |       |  |
|---|---------------------------|-------|--|
| <b>CHOLESTEROL TOTAL: SERUM</b><br><i>by CHOLESTEROL OXIDASE PAP</i>            | 133.18                    | mg/dL | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: > OR = 240.0   |
| <b>TRIGLYCERIDES: SERUM</b><br><i>by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)</i> | <b>195.18<sup>H</sup></b> | mg/dL | OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 - 199.0<br>HIGH: 200.0 - 499.0<br>VERY HIGH: > OR = 500.0                                 |
| <b>HDL CHOLESTEROL (DIRECT): SERUM</b><br><i>by SELECTIVE INHIBITION</i>        | 36.97                     | mg/dL | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 - 60.0<br>HIGH HDL: > OR = 60.0   |
| <b>LDL CHOLESTEROL: SERUM</b><br><i>by CALCULATED, SPECTROPHOTOMETRY</i>        | 57.17                     | 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 |
| <b>NON HDL CHOLESTEROL: SERUM</b><br><i>by CALCULATED, SPECTROPHOTOMETRY</i>    | 96.21                     | 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 |
| <b>VLDL CHOLESTEROL: SERUM</b><br><i>by CALCULATED, SPECTROPHOTOMETRY</i>       | 39.04                     | mg/dL | 0.00 - 45.00   |
| <b>TOTAL LIPIDS: SERUM</b><br><i>by CALCULATED, SPECTROPHOTOMETRY</i>           | 461.54                    | mg/dL | 350.00 - 700.00  |
| <b>CHOLESTEROL/HDL RATIO: SERUM</b><br><i>by CALCULATED, SPECTROPHOTOMETRY</i>  | 3.6                       | 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>           | 1.55                    | 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> | <b>5.28<sup>H</sup></b> | 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 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.
5. 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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