

Dr. Vinay Chopra  
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**NAME** : Miss. MOULI  
**AGE/ GENDER** : 13 YRS/FEMALE  
**COLLECTED BY** :  
**REFERRED BY** :  
**BARCODE NO.** : 01512708  
**CLIENT CODE.** : KOS DIAGNOSTIC LAB  
**CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

**PATIENT ID** : 1387914  
**REG. NO./LAB NO.** : 012407070056  
**REGISTRATION DATE** : 07/Jul/2024 07:19 PM  
**COLLECTION DATE** : 07/Jul/2024 07:20 PM  
**REPORTING DATE** : 07/Jul/2024 07:32 PM

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

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

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

|  |                   |              |  |
|--|-------------------|--------------|--|
| HAEMOGLOBIN (HB)<br>by CALORIMETRIC  | 11.4 <sup>L</sup> | gm/dL        | 12.0 - 16.0  |
| RED BLOOD CELL (RBC) COUNT<br>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE              | 5.03              | Millions/cmm | 3.50 - 5.50  |
| PACKED CELL VOLUME (PCV)<br>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER                 | 36.5              | %            | 35.0 - 49.0  |
| MEAN CORPUSCULAR VOLUME (MCV)<br>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER            | 72.5 <sup>L</sup> | fL           | 80.0 - 100.0   |
| MEAN CORPUSCULAR HAEMOGLOBIN (MCH)<br>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER       | 22.6 <sup>L</sup> | pg           | 27.0 - 34.0  |
| MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)<br>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER | 31.2 <sup>L</sup> | g/dL         | 32.0 - 36.0  |
| RED CELL DISTRIBUTION WIDTH (RDW-CV)<br>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER     | 16                | %            | 11.00 - 16.00  |
| RED CELL DISTRIBUTION WIDTH (RDW-SD)<br>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER     | 43.6              | fL           | 35.0 - 56.0  |
| MENTZERS INDEX<br>by CALCULATED  | 14.41             | RATIO        | BETA THALASSEMIA TRAIT: < 13.0<br>IRON DEFICIENCY ANEMIA: >13.0    |
| GREEN & KING INDEX<br>by CALCULATED  | 23                | RATIO        | BETA THALASSEMIA TRAIT: < = 65.0<br>IRON DEFICIENCY ANEMIA: > 65.0 |

**WHITE BLOOD CELLS (WBCS)**

|  |      |      |              |
|--|------|------|--------------|
| TOTAL LEUCOCYTE COUNT (TLC)<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                           | 5240 | /cmm | 4000 - 11000 |
| NUCLEATED RED BLOOD CELLS (nRBCS)<br>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY   | NIL  |      | 0.00 - 20.00 |
| NUCLEATED RED BLOOD CELLS (nRBCS) %<br>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER & MICROSCOPY | NIL  | %    | < 10 %       |

**DIFFERENTIAL LEUCOCYTE COUNT (DLC)**



  
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| <b>NEUTROPHILS</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                             | 47 <sup>L</sup> | %    | 50 - 70                       |
| <b>LYMPHOCYTES</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                             | 43 <sup>H</sup> | %    | 20 - 40                       |
| <b>EOSINOPHILS</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                             | 2               | %    | 1 - 6                         |
| <b>MONOCYTES</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                               | 8               | %    | 2 - 12                        |
| <b>BASOPHILS</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                               | 0               | %    | 0 - 1                         |
| <b><u>ABSOLUTE LEUKOCYTES (WBC) COUNT</u></b>   |                 |      |                               |
| <b>ABSOLUTE NEUTROPHIL COUNT</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY               | 2463            | /cmm | 2000 - 7500                   |
| <b>ABSOLUTE LYMPHOCYTE COUNT</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY               | 2253            | /cmm | 800 - 4900                    |
| <b>ABSOLUTE EOSINOPHIL COUNT</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY               | 105             | /cmm | 40 - 440                      |
| <b>ABSOLUTE MONOCYTE COUNT</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                 | 419             | /cmm | 80 - 880                      |
| <b>ABSOLUTE BASOPHIL COUNT</b><br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                 | 0               | /cmm | 0 - 110                       |
| <b><u>PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.</u></b>                              |                 |      |                               |
| <b>PLATELET COUNT (PLT)</b><br>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE              | 239000          | /cmm | 150000 - 450000               |
| <b>PLATELET CRIT (PCT)</b><br>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE               | 0.26            | %    | 0.10 - 0.36                   |
| <b>MEAN PLATELET VOLUME (MPV)</b><br>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE        | 11              | fL   | 6.50 - 12.0                   |
| <b>PLATELET LARGE CELL COUNT (P-LCC)</b><br>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 86000           | /cmm | 30000 - 90000                 |
| <b>PLATELET LARGE CELL RATIO (P-LCR)</b><br>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 36              | %    | 11.0 - 45.0                   |
| <b>PLATELET DISTRIBUTION WIDTH (PDW)</b><br>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 16.3            | %    | 15.0 - 17.0                   |
| NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD  |                 |      |                               |



  
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## CLINICAL CHEMISTRY/BIOCHEMISTRY

### LIVER FUNCTION TEST (COMPLETE)

|  |                    |       |   |
|--|--------------------|-------|---|
| BILIRUBIN TOTAL: SERUM<br>by DIAZOTIZATION, SPECTROPHOTOMETRY                              | 0.47               | mg/dL | INFANT: 0.20 - 8.00<br>ADULT: 0.00 - 1.20 |
| BILIRUBIN DIRECT (CONJUGATED): SERUM<br>by DIAZO MODIFIED, SPECTROPHOTOMETRY               | 0.23               | mg/dL | 0.00 - 0.40                               |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM<br>by CALCULATED, SPECTROPHOTOMETRY               | 0.24               | mg/dL | 0.10 - 1.00                               |
| SGOT/AST: SERUM<br>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE                                    | 51.43 <sup>H</sup> | U/L   | 7.00 - 45.00                              |
| SGPT/ALT: SERUM<br>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE                                    | 46.43              | U/L   | 0.00 - 49.00                              |
| AST/ALT RATIO: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY                                   | 1.11               | RATIO | 0.00 - 46.00                              |
| ALKALINE PHOSPHATASE: SERUM<br>by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL<br>PROPANOL | 155                | U/L   | 0.0 - 500.0                               |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM<br>by SZASZ, SPECTROPHOTOMETRY                     | 21                 | U/L   | 0.00 - 55.0                               |
| TOTAL PROTEINS: SERUM<br>by BIURET, SPECTROPHOTOMETRY                                      | 8                  | gm/dL | 6.20 - 8.00                               |
| ALBUMIN: SERUM<br>by BROMOCRESOL GREEN   | 4.7                | gm/dL | 3.50 - 5.50                               |
| GLOBULIN: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY  | 3.3                | gm/dL | 2.30 - 3.50                               |
| A : G RATIO: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY                                     | 1.42               | RATIO | 1.00 - 2.00                               |

#### INTERPRETATION

**NOTE:-** To be correlated in individuals having SGOT and SGPT values higher than Normal Reference Range.

**USE:-** Differential diagnosis of diseases of hepatobiliary system and pancreas.

#### INCREASED:

|                     |                         |
|---------------------|-------------------------|
| DRUG HEPATOTOXICITY | > 2                     |
| ALCOHOLIC HEPATITIS | > 2 (Highly Suggestive) |
| CIRRHOSIS           | 1.4 - 2.0               |



  
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| INTRAHEPATIC CHOLESTATIS                     | > 1.5                      |      |                               |
| HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS | > 1.3 (Slightly Increased) |      |                               |

**DECREASED:**

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)
2. Extra Hepatic cholestasis: 0.8 (normal or slightly decreased).


**PROGNOSTIC SIGNIFICANCE:**

|                      |           |
|----------------------|-----------|
| NORMAL               | < 0.65    |
| GOOD PROGNOSTIC SIGN | 0.3 - 0.6 |
| POOR PROGNOSTIC SIGN | 1.2 - 1.6 |

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



  
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