



BML428604

## Laboratory Investigation Report

**Name** : Miss. DIANAH MUYOKA SUMBA  
**DOB** : 20/07/1996  
**Age / Gender** : 27 Y / Female  
**Referred by** : DR. HUMAIRA MUMTAZ  
**Centre** : Peshawar Medical Center LLC

**Ref No.** : 40910  
**Sample No.** : 2406437733  
**Collected** : 26/06/2024 10:00  
**Registered** : 26/06/2024 17:37  
**Reported** : 27/06/2024 00:19

### HEMATOLOGY

| Test                                       | Result | Flag | Unit                | Reference Range | Methodology                       |
|--------------------------------------------|--------|------|---------------------|-----------------|-----------------------------------|
| <b>COMPLETE BLOOD COUNT (CBC)</b>          |        |      |                     |                 |                                   |
| HEMOGLOBIN                                 | 13.5   |      | g/dL                | 12 - 15.5       | Spectrophotometry (Oxyhemoglobin) |
| RBC COUNT                                  | 4.6    |      | 10 <sup>6</sup> /μL | 3.9 - 5         | Electrical Impedance              |
| HEMATOCRIT                                 | 39.8   |      | %                   | 35 - 45         | Calculation                       |
| MCV                                        | 87.2   |      | fL                  | 82 - 98         | Calculation                       |
| MCH                                        | 29.7   |      | pg                  | 27 - 32         | Calculation                       |
| MCHC                                       | 34     |      | g/dL                | 32 - 37         | Calculation                       |
| RDW                                        | 13.5   |      | %                   | 11.9 - 15.5     | Calculation                       |
| RDW-SD                                     | 41.6   |      | fL                  |                 | Calculation                       |
| MPV                                        | 9.3    |      | fL                  | 7.6 - 10.8      | Calculation                       |
| PLATELET COUNT                             | 274    |      | 10 <sup>3</sup> /uL | 150 - 450       | Electrical Impedance              |
| PCT                                        | 0.3    |      | %                   | 0.01 - 9.99     | Calculation                       |
| PDW                                        | 16.3   |      | Not Applicable      | 0.1 - 99.9      | Calculation                       |
| NUCLEATED RBC (NRBC) <sup>^</sup>          | 0.2    |      | /100 WBC            |                 | Flow Cytometry                    |
| ABSOLUTE NRBC COUNT <sup>^</sup>           | 0.01   |      | 10 <sup>3</sup> /uL |                 | Calculation                       |
| EARLY GRANULOCYTE COUNT (EGC) <sup>^</sup> | 0      |      | %                   |                 | Flow Cytometry                    |
| ABSOLUTE EGC <sup>^</sup>                  | 0      |      | 10 <sup>3</sup> /uL |                 | Calculation                       |
| WBC COUNT                                  | 4.9    |      | 10 <sup>3</sup> /μL | 4 - 11          | Electrical Impedance              |
| <b>DIFFERENTIAL COUNT (DC)</b>             |        |      |                     |                 |                                   |
| NEUTROPHILS                                | 66     |      | %                   | 40 - 75         | Flow Cytometry                    |
| LYMPHOCYTES                                | 26     | L    | %                   | 30 - 60         | Flow Cytometry                    |
| EOSINOPHILS                                | 1      |      | %                   | 0 - 6           | Flow Cytometry                    |
| MONOCYTES                                  | 6      |      | %                   | 1 - 6           | Flow Cytometry                    |
| BASOPHILS                                  | 1      |      | %                   | 0 - 1           | Flow Cytometry                    |
| <b>ABSOLUTE COUNT</b>                      |        |      |                     |                 |                                   |
| ABSOLUTE NEUTROPHIL COUNT                  | 3      |      | 10 <sup>3</sup> /uL | 1.6 - 8.25      | Calculation                       |
| ABSOLUTE LYMPHOCYTE COUNT                  | 1.3    |      | 10 <sup>3</sup> /uL | 1.2 - 6.6       | Calculation                       |
| ABSOLUTE MONOCYTE COUNT                    | 0.6    |      | 10 <sup>3</sup> /uL | 0.04 - 0.66     | Calculation                       |
| ABSOLUTE EOSINOPHIL COUNT                  | 0      |      | 10 <sup>3</sup> /uL | 0 - 0.66        | Calculation                       |
| ABSOLUTE BASOPHIL COUNT                    | 0.1    |      | 10 <sup>3</sup> /uL | 0 - 0.11        | Calculation                       |

**Dr. Adley Mark Fernandes**  
M.D (Pathology)  
Pathologist

**Dr. Vyoma V Shah**  
M.D (Pathology)  
Clinical Pathologist

**NAZAR MOHAMED ALI**  
Laboratory Technologist

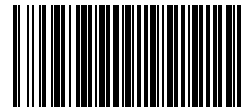
This is an electronically authenticated report

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Test result pertains only to the sample tested and to be interpreted in the light of clinical history. These tests are accredited under ISO 15189:2012 unless specified by (^). Test marked with # is performed in an accredited referral laboratory.





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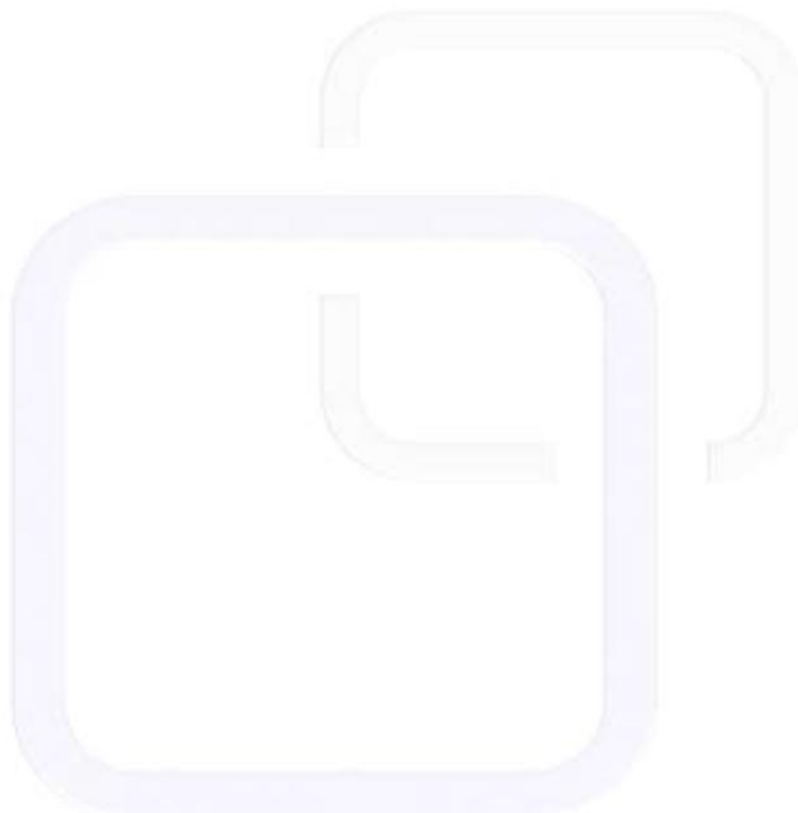
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### HEMATOLOGY

| Test | Result | Flag | Unit | Reference Range | Methodology |
|------|--------|------|------|-----------------|-------------|
|------|--------|------|------|-----------------|-------------|

#### COMPLETE BLOOD COUNT (CBC)

Interpretation Notes : Please note update on CBC report format and changes in reference ranges.



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### HAEMATOLOGY

| Test                                 | Result | Flag | Unit  | Reference Range                                           | Methodology |
|--------------------------------------|--------|------|-------|-----------------------------------------------------------|-------------|
| ERYTHROCYTE SEDIMENTATION RATE (ESR) | 15     |      | mm/hr | < 20<br>Please note change in reference range and method. | Automated   |

#### Interpretation Notes :

Increased ESR is seen in inflammation, pregnancy, anemia, autoimmune disorders (such as rheumatoid arthritis and lupus), infections, some kidney diseases and some cancers (such as lymphoma and multiple myeloma).

The ESR is decreased in polycythemia, hyperviscosity, sickle cell anemia, leukemia, low plasma protein (due to liver or kidney disease), congestive heart failure, hypofibrinogenemia and leukocytosis.

Sample Type : EDTA Whole Blood

End of Report

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