

BML400781

## Laboratory Investigation Report

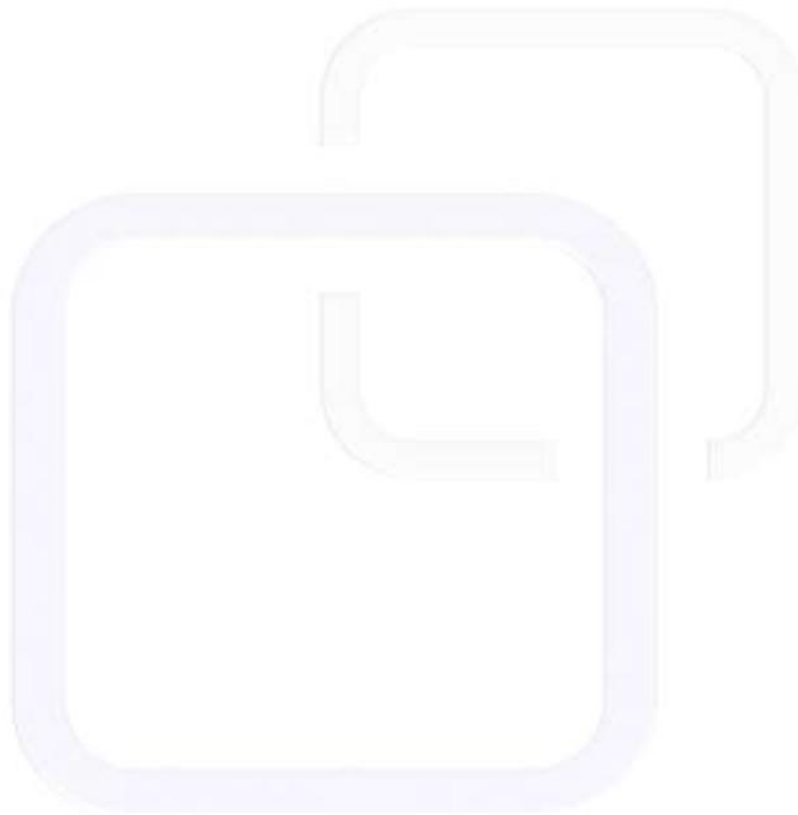
|                     |                               |                   |                    |
|---------------------|-------------------------------|-------------------|--------------------|
| <b>Name</b>         | : MHD SALEEM KHALED           | <b>Ref No.</b>    | : 43120            |
| <b>DOB</b>          | : 07/07/2000                  | <b>Sample No.</b> | : 2405408748       |
| <b>Age / Gender</b> | : 23 Y / Male                 | <b>Collected</b>  | : 14/05/2024 16:00 |
| <b>Referred by</b>  | : DR HUMEIRA                  | <b>Registered</b> | : 14/05/2024 23:34 |
| <b>Centre</b>       | : Peshawar Medical Center LLC | <b>Reported</b>   | : 15/05/2024 00:42 |

### BIOCHEMISTRY

| Test                     | Result | Flag | Unit | Reference Range                                    | Methodology        |
|--------------------------|--------|------|------|----------------------------------------------------|--------------------|
| C-REACTIVE PROTEIN (CRP) | 3.1    |      | mg/L | < 5.0<br>Please note change.<br>Source: Roche IFU. | Immunoturbidimetry |

Sample Type : Serum

End of Report



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

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

*Haleem*

**HALEEM HAKKIM**  
Laboratory Technician

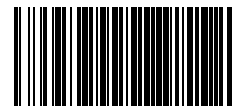
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## Laboratory Investigation Report

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**DOB** : 07/07/2000  
**Age / Gender** : 23 Y / Male  
**Referred by** : DR HUMEIRA  
**Centre** : Peshawar Medical Center LLC

**Ref No.** : 43120  
**Sample No.** : 2405408748  
**Collected** : 14/05/2024 16:00  
**Registered** : 14/05/2024 23:34  
**Reported** : 15/05/2024 00:29

### HEMATOLOGY

| Test                                       | Result | Flag | Unit                | Reference Range | Methodology                       |
|--------------------------------------------|--------|------|---------------------|-----------------|-----------------------------------|
| <b>COMPLETE BLOOD COUNT (CBC)</b>          |        |      |                     |                 |                                   |
| HEMOGLOBIN                                 | 14     |      | g/dL                | 13.5 - 17.5     | Spectrophotometry (Oxyhemoglobin) |
| RBC COUNT                                  | 4.9    |      | 10 <sup>6</sup> /μL | 4.3 - 5.7       | Electrical Impedance              |
| HEMATOCRIT                                 | 41     |      | %                   | 38 - 50         | Calculation                       |
| MCV                                        | 84.2   |      | fL                  | 82 - 98         | Calculation                       |
| MCH                                        | 28.8   |      | pg                  | 27 - 32         | Calculation                       |
| MCHC                                       | 34.2   |      | g/dL                | 32 - 37         | Calculation                       |
| RDW                                        | 12.9   |      | %                   | 11.8 - 15.6     | Calculation                       |
| RDW-SD                                     | 38.1   |      | fL                  |                 | Calculation                       |
| MPV                                        | 10.2   |      | fL                  | 7.6 - 10.8      | Calculation                       |
| PLATELET COUNT                             | 126    | L    | 10 <sup>3</sup> /μL | 150 - 450       | Electrical Impedance              |
| PCT                                        | 0.1    |      | %                   | 0.01 - 9.99     | Calculation                       |
| PDW                                        | 17.8   |      | 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> | 0.3    |      | %                   |                 | Flow Cytometry                    |
| ABSOLUTE EGC <sup>^</sup>                  | 0.0    |      | 10 <sup>3</sup> /uL |                 | Calculation                       |
| WBC COUNT                                  | 3.1    | L    | 10 <sup>3</sup> /μL | 4 - 11          | Electrical Impedance              |
| <b>DIFFERENTIAL COUNT (DC)</b>             |        |      |                     |                 |                                   |
| NEUTROPHILS                                | 77     | H    | %                   | 40 - 75         | Flow Cytometry                    |
| LYMPHOCYTES                                | 18     | L    | %                   | 20 - 45         | Flow Cytometry                    |
| EOSINOPHILS                                | 0      |      | %                   | 0 - 6           | Flow Cytometry                    |
| MONOCYTES                                  | 5      |      | %                   | 1 - 6           | Flow Cytometry                    |
| BASOPHILS                                  | 0      |      | %                   | 0 - 1           | Flow Cytometry                    |
| <b>ABSOLUTE COUNT</b>                      |        |      |                     |                 |                                   |
| ABSOLUTE NEUTROPHIL COUNT                  | 2.1    |      | 10 <sup>3</sup> /uL | 1.6 - 8.25      | Calculation                       |
| ABSOLUTE LYMPHOCYTE COUNT                  | 0.5    | L    | 10 <sup>3</sup> /uL | 0.8 - 4.95      | Calculation                       |
| ABSOLUTE MONOCYTE COUNT                    | 0.5    |      | 10 <sup>3</sup> /uL | 0.04 - 0.66     | Calculation                       |
| ABSOLUTE EOSINOPHIL COUNT                  | 0.0    |      | 10 <sup>3</sup> /uL | 0 - 0.66        | Calculation                       |
| ABSOLUTE BASOPHIL COUNT                    | 0.0    |      | 10 <sup>3</sup> /uL | 0 - 0.11        | Calculation                       |

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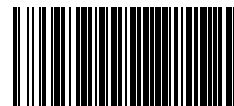
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**MOHAMMED RASHID CHENANGADATH**  
Laboratory Technologist

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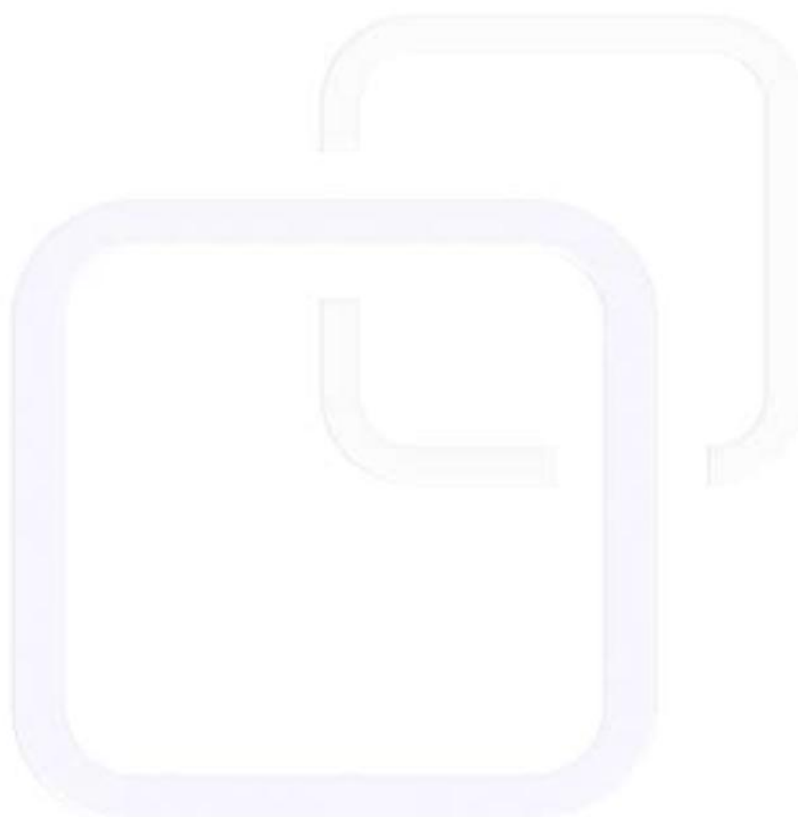
### HEMATOLOGY

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

#### COMPLETE BLOOD COUNT (CBC)

**Comments** : Rechecked. Please correlate clinically.

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) | 1      |      | mm/hr | < 15<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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