



BML402582

## Laboratory Investigation Report

|                     |                               |                   |                    |
|---------------------|-------------------------------|-------------------|--------------------|
| <b>Name</b>         | : Mr. RAMI SAMIR              | <b>Ref No.</b>    | : 42237            |
| <b>DOB</b>          | : 22/01/1985                  | <b>Sample No.</b> | : 2405410595       |
| <b>Age / Gender</b> | : 39 Y 3 M / Male             | <b>Collected</b>  | : 17/05/2024 19:00 |
| <b>Referred by</b>  | : DR HUMAIRA                  | <b>Registered</b> | : 17/05/2024 22:40 |
| <b>Centre</b>       | : Peshawar Medical Center LLC | <b>Reported</b>   | : 18/05/2024 07:57 |

### BIOCHEMISTRY

| Test              | Result | Flag | Unit  | Reference Range                                                                    | Methodology |
|-------------------|--------|------|-------|------------------------------------------------------------------------------------|-------------|
| GLUCOSE (FASTING) | 449    | H    | mg/dL | < 100<br>Please note change.<br>Source: The American<br>Diabetes Association (ADA) | Hexokinase  |

Sample Type : Fluoride Plasma

End of Report

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

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



**ANJUMOL D V**  
Laboratory Technologist  
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### BIOCHEMISTRY

| Test                     | Result      | Flag      | Unit | Reference Range                                    | Methodology        |
|--------------------------|-------------|-----------|------|----------------------------------------------------|--------------------|
| C-REACTIVE PROTEIN (CRP) | <b>28.9</b> | <b>CH</b> | mg/L | < 5.0<br>Please note change.<br>Source: Roche IFU. | Immunoturbidimetry |

Sample Type : Serum

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### CLINICAL PATHOLOGY

| Test                             | Result   | Flag | Unit    | Reference Range     | Methodology                   |
|----------------------------------|----------|------|---------|---------------------|-------------------------------|
| <b>URINE ANALYSIS ( ROUTINE)</b> |          |      |         |                     |                               |
| <b>MACROSCOPIC EXAMINATION</b>   |          |      |         |                     |                               |
| COLOR                            | YELLOW   |      |         | Pale to Dark Yellow | Visual                        |
| APPEARANCE                       | CLEAR    |      |         | -                   | Visual                        |
| <b>CHEMISTRY EXAMINATION</b>     |          |      |         |                     |                               |
| SPECIFIC GRAVITY                 | 1.015    |      |         | 1.002 - 1.035       | Bromothymol blue              |
| PH                               | 6.0      |      |         | 4.5 - 8.0           | Litmus paper                  |
| GLUCOSE                          | +++      |      |         | Negative            | GOD / POD                     |
| BLOOD                            | NEGATIVE |      |         | Negative            | Peroxidase                    |
| PROTEIN                          | TRACE    |      |         | Negative            | Protein error of pH indicator |
| LEUCOCYTE ESTERASE               | NEGATIVE |      |         | Negative            | Esterase                      |
| UROBILINOGEN                     | 0.2      |      | E.U./dL | 0.2 - 1.0           | Diazo                         |
| BILIRUBIN                        | NEGATIVE |      |         | Negative            | Diazo                         |
| KETONE                           | ++       |      |         | Negative            | Legal's test                  |
| NITRITE                          | NEGATIVE |      |         | Negative            | Griess test                   |
| <b>MICROSCOPIC EXAMINATION</b>   |          |      |         |                     |                               |
| LEUCOCYTES                       | 1 - 2    |      | /HPF    | 1 - 4               | Microscopy                    |
| ERYTHROCYTES                     | 0 - 1    |      | /HPF    | 0 - 2               | Microscopy                    |
| EPITHELIAL CELLS                 | 0 - 1    |      | /HPF    | Variable            | Microscopy                    |
| BACTERIA                         | -        |      | /HPF    | Absent              | Microscopy                    |
| CASTS                            | -        |      | /HPF    | Absent              | Microscopy                    |
| HYALINE CAST                     | -        |      | /HPF    | Absent              | Microscopy                    |
| FINE GRANULAR CAST               | -        |      | /HPF    | Absent              | Microscopy                    |
| COARSE GRANULAR CAST             | -        |      | /HPF    | Absent              | Microscopy                    |
| WAXY CAST                        | -        |      | /HPF    | Absent              | Microscopy                    |
| FATTY CAST                       | -        |      | /HPF    | Absent              | Microscopy                    |
| RBC CAST                         | -        |      | /HPF    | Absent              | Microscopy                    |
| WBC CAST                         | -        |      | /HPF    | Absent              | Microscopy                    |
| BACTERIAL CAST                   | -        |      | /HPF    | Absent              | Microscopy                    |
| EPITHELIAL CAST                  | -        |      | /HPF    | Absent              | Microscopy                    |
| CRYSTALS                         | -        |      | /HPF    | Absent              | Microscopy                    |

**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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Page 3 of 7

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### CLINICAL PATHOLOGY

| Test                 | Result | Flag | Unit | Reference Range | Methodology               |
|----------------------|--------|------|------|-----------------|---------------------------|
| CALCIUM OXALATE      | -      |      | /HPF | Absent          | Microscopy                |
| CALCIUM CARBONATE    | -      |      | /HPF | Absent          | Microscopy                |
| CALCIUM PHOSPHATE    | -      |      | /HPF | Absent          | Microscopy                |
| TRIPLE PHOSPHATE     | -      |      | /HPF | Absent          | Microscopy                |
| URIC ACID CRYSTAL    | -      |      | /HPF | Absent          | Microscopy                |
| AMMONIUM BIURATE     | -      |      | /HPF | Absent          | Microscopy                |
| AMORPHOUS URATES     | -      |      | /HPF | Absent          | Microscopy                |
| AMORPHOUS PHOSPHATES | -      |      | /HPF | Absent          | Microscopy                |
| CYSTINE              | -      |      | /HPF | Absent          | Microscopy                |
| LEUCINE              | -      |      | /HPF | Absent          | Microscopy                |
| TYROSINE             | -      |      | /HPF | Absent          | Microscopy                |
| DRUG CRYSTAL         | -      |      | /HPF | Absent          | Microscopy                |
| MUCUS THREADS        | -      |      | /HPF | Absent          | Microscopy                |
| BUDDING YEAST CELLS  | -      |      | /HPF | Absent          | Microscopy                |
| HYPHAE               | -      |      | /HPF | Absent          | Microscopy                |
| OVA                  | -      |      | /HPF | Absent          | Microscopy and Micrometry |
| CYST                 | -      |      | /HPF | Absent          | Microscopy                |
| PARASITE             | -      |      | /HPF | Absent          | Microscopy                |
| ARTIFACTS            | -      |      | /HPF | Absent          | Microscopy                |

#### Interpretation Notes :

Instrumentation used for Chemistry test: Siemens Clinitek Advantus.

Note: "-" means Absent

Sample Type : URINE

End of Report

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

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**Clinical Pathologist**

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Page 4 of 7

*Haleem*

**HALEEM HAKKIM**  
Laboratory Technician

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### HEMATOLOGY

| Test                                       | Result | Flag | Unit                | Reference Range | Methodology                       |
|--------------------------------------------|--------|------|---------------------|-----------------|-----------------------------------|
| <b>COMPLETE BLOOD COUNT (CBC)</b>          |        |      |                     |                 |                                   |
| HEMOGLOBIN                                 | 15.1   |      | g/dL                | 13.5 - 17.5     | Spectrophotometry (Oxyhemoglobin) |
| RBC COUNT                                  | 5.4    |      | 10 <sup>6</sup> /μL | 4.3 - 5.7       | Electrical Impedance              |
| HEMATOCRIT                                 | 43.9   |      | %                   | 38 - 50         | Calculation                       |
| MCV                                        | 81.3   | L    | fL                  | 82 - 98         | Calculation                       |
| MCH                                        | 27.9   |      | pg                  | 27 - 32         | Calculation                       |
| MCHC                                       | 34.3   |      | g/dL                | 32 - 37         | Calculation                       |
| RDW                                        | 13.3   |      | %                   | 11.8 - 15.6     | Calculation                       |
| RDW-SD                                     | 38.1   |      | fL                  |                 | Calculation                       |
| MPV                                        | 10.0   |      | fL                  | 7.6 - 10.8      | Calculation                       |
| PLATELET COUNT                             | 177    |      | 10 <sup>3</sup> /μL | 150 - 450       | Electrical Impedance              |
| PCT                                        | 0.2    |      | %                   | 0.01 - 9.99     | Calculation                       |
| PDW                                        | 18.0   |      | Not Applicable      | 0.1 - 99.9      | Calculation                       |
| NUCLEATED RBC (NRBC) <sup>^</sup>          | 0.1    |      | /100 WBC            |                 | Flow Cytometry                    |
| ABSOLUTE NRBC COUNT <sup>^</sup>           | 0.01   |      | 10 <sup>3</sup> /uL |                 | Calculation                       |
| EARLY GRANULOCYTE COUNT (EGC) <sup>^</sup> | 0.8    |      | %                   |                 | Flow Cytometry                    |
| ABSOLUTE EGC <sup>^</sup>                  | 0.1    |      | 10 <sup>3</sup> /uL |                 | Calculation                       |
| WBC COUNT                                  | 7.0    |      | 10 <sup>3</sup> /μL | 4 - 11          | Electrical Impedance              |
| <b>DIFFERENTIAL COUNT (DC)</b>             |        |      |                     |                 |                                   |
| NEUTROPHILS                                | 82     | H    | %                   | 40 - 75         | Flow Cytometry                    |
| LYMPHOCYTES                                | 13     | 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                  | 5.7    |      | 10 <sup>3</sup> /uL | 1.6 - 8.25      | Calculation                       |
| ABSOLUTE LYMPHOCYTE COUNT                  | 0.9    |      | 10 <sup>3</sup> /uL | 0.8 - 4.95      | Calculation                       |
| ABSOLUTE MONOCYTE COUNT                    | 0.3    |      | 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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**JAYADEV C J**  
Laboratory Technologist

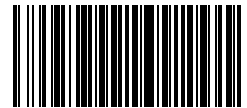
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Page 5 of 7

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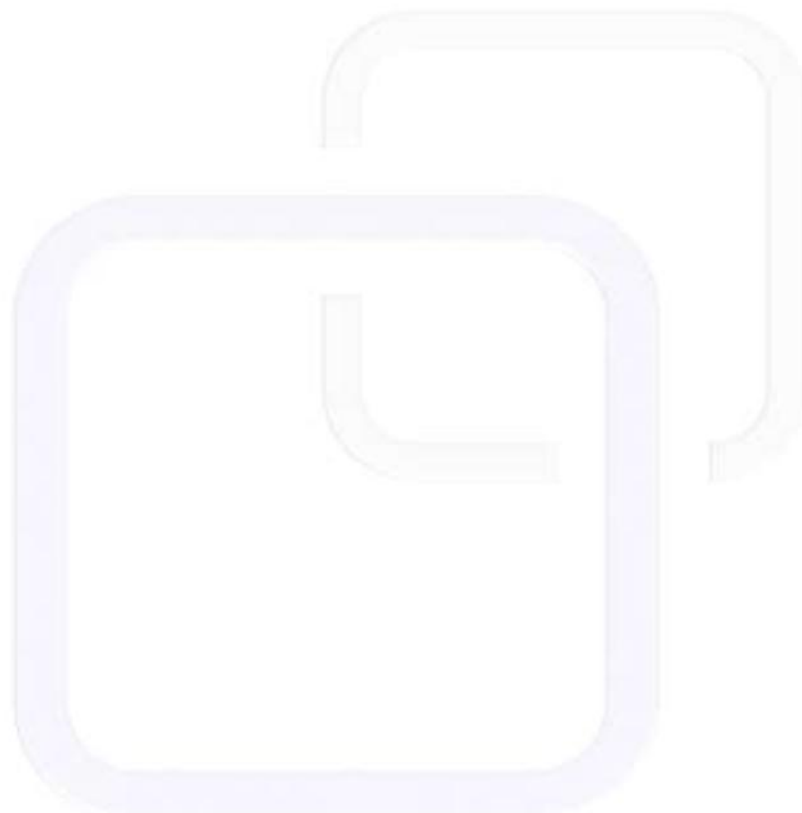
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### HEMATOLOGY

| 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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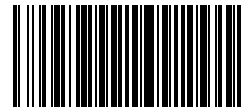
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### HAEMATOLOGY

| Test                                 | Result | Flag | Unit  | Reference Range                                              | Methodology |
|--------------------------------------|--------|------|-------|--------------------------------------------------------------|-------------|
| ERYTHROCYTE SEDIMENTATION RATE (ESR) | 12     |      | mm/hr | < 15<br>Please note change in<br>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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