



Patient

Ahmad Mutabagani  
Male - 91 Years  
1002260394

Order

Reservation ID: 4145344  
Branch: ACL01 - Riyadh (As  
Sulimaniyah) - HQ

Referral

Client: 1170 - Baitna Home Health  
Care

Registered At 11/30/25 18:28

Collected At 11/30/25 18:28

Reported At 12/01/25 15:22

## Clinical Chemistry

### Hemoglobin A1C (Glycated Hb,HbA1C)

6.37 %

Reference Range :

- Normal
- Prediabetes
- Diabetes

< 5.7  
5.7 - 6.4  
≥ 6.5

Comment :

Method: Turbidimetric Immunoinhibition

Sample Type: EDTA Whole Blood

### Blood Urea Nitrogen (BUN)

118 mg/dL

Reference Range :

8 - 20

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

\* Critical result for BUN,

Clinic acknowledged immediately by phone by  
Rasha.





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Creatinine - Serum

1.97 mg/dL

Reference Range :

0.72 - 1.18

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Uric Acid - Serum

10.92 mg/dL

Reference Range :

3.5 - 7.2

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Sodium (Na)

147.17 mmol/L

Reference Range :

136 - 146

Comment :

Method: Ion-selective electrodes (ISE) - crown ether  
membrane

Sample Type: Serum





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Potassium (K)

4.87 mmol/L

Reference Range :

3.5 - 5.1

Comment :

Method: Ion-selective electrodes (ISE) - Crown ether  
membrane

Sample Type: Serum

Ferritin

663 ng/mL

Reference Range :

24 - 425

Comment :

Method: Chemiluminescent immunoassay (CLIA)

Sample Type: serum

C-Reactive Protein (CRP), Quantitative

212.58 mg/L

Reference Range :

< 5

Comment :

Method: Latex Particle Immunoturbidimetric

Sample Type: Serum





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Cholesterol - Total

125.87 mg/dL

Reference Range :

● Desirable

● Borderline

● High

≤ 200

200 - 240

≥ 240

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

High Density Lipoprotein (HDL)

32.1 mg/dL

Reference Range :

● Risk Indicator

● Standard Risk

● Favorable Prognosis

< 40

40 - 60

> 60

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Low Density Lipoprotein (LDL)

65 mg/dL

Reference Range :

● Optimal

● Near Optimal

● Borderline

● High

● Requiring treatment

<100

100 - 129

130 - 159

160 - 189

≥ 190





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Triglycerides

141.63 mg/dL

Reference Range :

- Normal
- Borderline
- High
- Very High

< 150  
150 - 199  
200 - 499  
≥ 500

Comment :

Method: Spectrophotometry (SP)  
Sample Type: Serum

Alanine Aminotransferase (ALT)

32.41 U/L

Reference Range :

< 50

Comment :

Method: Spectrophotometry (SP)  
Sample Type: Serum

Aspartate Amino Transferase (AST)

48.46 U/L

Reference Range :

< 50

Comment :

Method: Spectrophotometry (SP)  
Sample Type: Serum





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Total Protein - Serum

5.38 g/dL

Reference Range :

6.6 - 8.3

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Albumin - Serum

2.73 g/dL

Reference Range :

3.5 - 5.2

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Bilirubin - Total

1.2 mg/dL

Reference Range :

0.3 - 1.2

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum





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Bilirubin - Direct

0.09 mg/dL

Reference Range :

≤ 0.2

Comment :

Method: Spectrophotometry (SP)

Sample Type: Seurm

Alkaline Phosphatase (ALP)

65.83 U/L

Reference Range :

30 - 120

Comment :

Method: Spectrophotometry (SP)

Sample Type: Serum

Thyroid Stimulating Hormone (TSH)

1.58 µU/mL

Reference Range :

0.34 - 5.6

Comment :

Method: Chemiluminescent immunoassay (CLIA)

Sample Type: serum





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Vitamin D (25 OH Vit D Total)

28 ng/mL

Reference Range :

- Deficiency
- Sufficient
- Excessive

< 30  
30 - 100  
> 100

Comment :

Method: Chemiluminescent immunoassay (CLIA)

Sample Type: serum

Vitamin B12 (Cyanocobalamine)

226 pg/mL

Reference Range :

192 - 827

Comment :

Method: Chemiluminescent immunoassay (CLIA)

Sample Type: serum





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## Test Results

### Erythrocyte Sedimentation Rate (ESR)

45 mm/h

Reference Range :

≤ 15

Comment :

Method: Westergren method

Sample Type: Whole Blood



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Approved By:

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Dr. Marwa Abdelrazek  
Clinical pathologist





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## Blood Tests

### Complete Blood Count (CBC)

| Test Name                  | Result | Normal Range | Units                     |
|----------------------------|--------|--------------|---------------------------|
| WBCs                       | 17.22  | 4 - 11       | $10^3/\mu\text{L}$        |
| Red blood cell (RBC) count | 3.81   | 4.5 - 5.5    | $\times 10^6/\mu\text{L}$ |
| Hemoglobin                 | 11.81  | 13 - 18      | g/dL                      |
| Hematocrit (HCT)           | 33.5   | 40 - 50      | %                         |
| MCV                        | 87.9   | 83 - 101     | fL                        |
| MCH                        | 31.0   | 27 - 32      | pg                        |
| MCHC                       | 35.3   | 31.5 - 34.5  | g/dL                      |
| RDW-CV                     | 17.0   | 11.6 - 14    | %                         |
| Platelets                  | 168.1  | 150 - 450    | $10^3/\mu\text{L}$        |

| Differential count | Result | Normal Range | Units              |
|--------------------|--------|--------------|--------------------|
| Neutrophils%       | 89.08  | 35 - 75      | %                  |
| Lymphocytes%       | 7.91   | 20 - 45      | %                  |
| Monocytes%         | 2.22   | 2 - 8        | %                  |
| Eosinophils%       | 0.42   | 1 - 6        | %                  |
| Basophils%         | 0.37   | 0 - 1        | %                  |
| Neutrophils#       | 15.34  | 2 - 7        | $10^3/\mu\text{L}$ |
| Lymphocytes#       | 1.36   | 1 - 3.5      | $10^3/\mu\text{L}$ |
| Monocytes#         | 0.38   | 0.2 - 1      | $10^3/\mu\text{L}$ |
| Eosinophils#       | 0.07   | 0.02 - 0.5   | $10^3/\mu\text{L}$ |
| Basophils#         | 0.06   | 0.01 - 0.1   | $10^3/\mu\text{L}$ |

**Method:** Coulter Principle and Flow cytometric optical measurement

**Sample type:** EDTA Whole Blood

\* Mild normocytic normochromic anemia,  
mild leukocytosis and absolute neutrophilia.





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## Kidney Function

### Urine Analysis

| Test Name                       | Result                                                                         | Normal Range   | Units |
|---------------------------------|--------------------------------------------------------------------------------|----------------|-------|
| <b>Physical Examination:</b>    |                                                                                |                |       |
| Color                           | Yellow                                                                         | Pale to yellow | --    |
| Aspect                          | Slightly Cloudy                                                                | Clear          | --    |
| <b>Chemical Examination:</b>    |                                                                                |                |       |
| Specific Gravity                | 1.010                                                                          | 1.005 - 1.030  | --    |
| PH                              | 5.5 (Acidic)                                                                   | 5.0 - 9.5      | --    |
| Leukocyte                       | +2                                                                             | Negative       | --    |
| Nitrites                        | Negative                                                                       | Negative       | --    |
| Protein                         | +1                                                                             | Negative       | --    |
| Glucose                         | Negative                                                                       | Negative       | --    |
| Ketones                         | Negative                                                                       | Negative       | --    |
| Urobilinogen                    | Normal                                                                         | Normal         | --    |
| Bilirubin                       | Negative                                                                       | Negative       | --    |
| Blood                           | +3                                                                             | Negative       | --    |
| <b>Microscopic Examination:</b> |                                                                                |                |       |
| Pus Cells                       | 30-35                                                                          | 0-5            | H.P.F |
| RBC'S                           | 4 - 8                                                                          | 0-5            | H.P.F |
| Epithelial                      | Few                                                                            | Nil            | --    |
| Cast                            | Low                                                                            | Nil            | --    |
| Cast Types                      | Waxy casts                                                                     | --             | --    |
| Crystals                        | Nil                                                                            | Nil            | --    |
| Amorphous materials             | Nil                                                                            | --             | --    |
| Others                          | Bacteria - Few, Mucous<br>Threads - Few, Yeast<br>cells - Few, Hyphae -<br>Few | --             | --    |





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**Method:** Reagent Impregnated Strips/ Microscopic Examination

**Sample Type:** urine Sample

Urine culture is recommended.



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