

**CONFIDENTIAL LABORATORY REPORT**

|                 |                                 |                   |                       |
|-----------------|---------------------------------|-------------------|-----------------------|
| Patient Name    | : Ms. MINA MESTOURI             | Request Date      | : 21/04/2025 21:13    |
| Age / Sex       | : 24 Y / Female                 | Collected Date    | : 21/04/2025 21:10    |
| DOB             | : 22/10/2000                    | Acceptance Date   | : 21/04/2025 22:16    |
| Referral Doctor | :                               | Report Date       | : 22/04/2025 21:47    |
| Referrer        | : CITICARE MEDICAL CENTER L.L.C | Report Status     | : <b>Final Report</b> |
| SID.No.         | : FD020231                      | External Visit Id | : 46566               |
| Patient No      | : FCL020331                     |                   |                       |

| INVESTIGATION / SPECIMEN | RESULT | UNIT | REFERENCE RANGE | METHOD |
|--------------------------|--------|------|-----------------|--------|
|--------------------------|--------|------|-----------------|--------|

**HAEMATOLOGY**

**CITICARE PULSEFIT PACKAGE  
COMPLETE BLOOD COUNT (CBC)**

EDTA Whole Blood

|                |             |                     |           |              |
|----------------|-------------|---------------------|-----------|--------------|
| HEMOGLOBIN     | 13.2        | g/dL                | 12 - 15.5 | Colorimetric |
| RBC COUNT      | 4.72        | 10 <sup>6</sup> /uL | 3.5 - 5.5 | EI           |
| HEMATOCRIT     | 40.4        | %                   | 37 - 54   | Calculation  |
| MCV            | 85.5        | fL                  | 80 - 100  | Calculation  |
| MCH            | 28          | pg                  | 27 - 34   | Calculation  |
| MCHC           | 32.7        | g/dL                | 32 - 36   | Calculation  |
| RDW            | 13.2        | %                   | 11 - 16   | Calculation  |
| MPV            | <b>13.6</b> | fL                  | 8 - 12    | Calculation  |
| PLATELET COUNT | 173         | 10 <sup>3</sup> /uL | 140 - 450 | EI           |
| WBC COUNT      | 7.47        | 10 <sup>3</sup> /uL | 4 - 10    | EI           |

**DIFFERENTIAL COUNT (DC)**

EDTA Whole Blood

|                           |      |                          |            |                |
|---------------------------|------|--------------------------|------------|----------------|
| NEUTROPHILS               | 59.6 | %                        | 50 - 70    | Flow Cytometry |
| LYMPHOCYTES               | 34.5 | %                        | 20 - 40    | Flow Cytometry |
| EOSINOPHILS               | 0.9  | %                        | 0.5 - 5    | Flow Cytometry |
| MONOCYTES                 | 4.7  | %                        | 3 - 12     | Flow Cytometry |
| BASOPHILS                 | 0.3  | %                        | 0 - 1      | Flow Cytometry |
| ABSOLUTE NEUTROPHIL COUNT | 4.45 | 10 <sup>3</sup> cells/uL | 2 - 7      |                |
| ABSOLUTE LYMPHOCYTE COUNT | 2.58 | 10 <sup>3</sup> cells/uL | 0.8 - 4    |                |
| ABSOLUTE MONOCYTE COUNT   | 0.35 | 10 <sup>3</sup> cells/uL | 0.12 - 1.2 |                |
| ABSOLUTE EOSINOPHIL COUNT | 0.07 | 10 <sup>3</sup> cells/uL | 0.02 - 0.5 |                |
| ABSOLUTE BASOPHIL COUNT   | 0.02 | 10 <sup>3</sup> cells/uL | 0 - 0.1    |                |

Prepared By

Inayatulla Ibrahim Dhanse  
General Lab Technologist  
DGAP022039



Approved By

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Dr Anjum Nawshehri  
Laboratory Director  
DHA-00208333-004

End Of The Report

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| INVESTIGATION / SPECIMEN                          | RESULT | UNIT  | REFERENCE RANGE                                                        | METHOD                                          |
|---------------------------------------------------|--------|-------|------------------------------------------------------------------------|-------------------------------------------------|
| <b>CLINICAL BIOCHEMISTRY</b>                      |        |       |                                                                        |                                                 |
| <b>CITICARE PULSEFIT PACKAGE</b>                  |        |       |                                                                        |                                                 |
| GLUCOSE (RANDOM)<br>Fluoride Plasma               | 80.3   | mg/dL | < 200                                                                  | GOD - POD                                       |
| GLYCATED HEMOGLOBIN (HbA1C) ^<br>EDTA Whole Blood |        |       |                                                                        |                                                 |
| HBA1C                                             | 5.0    | %     | Normal: 4.6-5.6<br>Prediabetes: 5.7- 6.4<br>Diabetes: >6.5             | HPLC                                            |
| eAG (estimated Average Glucose)                   | 97     | %     |                                                                        | Calculation                                     |
| <b>BLOOD UREA NITROGEN (SERUM)</b>                |        |       |                                                                        |                                                 |
| Serum                                             |        |       |                                                                        |                                                 |
| UREA                                              | 22.5   | mg/dL | 16.87 - 43.37                                                          | Urease-glutamate<br>Dehydrogenase,<br>UV method |
| BUN                                               | 10.5   | mg/dL | 7 - 18                                                                 | Calculation                                     |
| CREATININE                                        | 0.51   | mg/dL | 0.5 - 1.1                                                              | Sarcosine Oxidase                               |
| Serum                                             |        |       |                                                                        |                                                 |
| BUN/CREATININE RATIO                              | 19     | NULL  | Prerenal: > 20:1<br>Normal or Postrenal: 10-20:1<br>Intrarenal: < 10:1 | Calculation                                     |
| Serum                                             |        |       |                                                                        |                                                 |
| URIC ACID                                         | 3.46   | mg/dL | 1.9 - 7.5                                                              | Uricase - POD                                   |
| Serum                                             |        |       |                                                                        |                                                 |
| IRON                                              | 71.5   | ug/dL | 37 - 145                                                               | Ferrozine                                       |
| Serum                                             |        |       |                                                                        |                                                 |
| CHOLESTEROL (TOTAL)                               | 165.6  | mg/dL | Desirable: < 200<br>Borderline High: 200 - 239<br>High: > 239          | CHOD-POD                                        |
| Serum                                             |        |       |                                                                        |                                                 |
| NON-HDL CHOLESTEROL                               | 96     | mg/dL | < 140                                                                  | Calculation                                     |
| Serum                                             |        |       |                                                                        |                                                 |

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| SID.No.         | : FD020231                      | External Visit Id | : 46566               |
| Patient No      | : FCL020331                     |                   |                       |

| INVESTIGATION / SPECIMEN         | RESULT | UNIT  | REFERENCE RANGE                                                                                                      | METHOD      |
|----------------------------------|--------|-------|----------------------------------------------------------------------------------------------------------------------|-------------|
| <b>CLINICAL BIOCHEMISTRY</b>     |        |       |                                                                                                                      |             |
| <b>CITICARE PULSEFIT PACKAGE</b> |        |       |                                                                                                                      |             |
| TRIGLYCERIDES                    | 106.6  | mg/dl | Normal: < 150<br>Borderline High: 150 - 199<br>High: 200 - 499<br>Very High: > 499                                   | GPO-POD     |
| Serum<br>HDL CHOLESTEROL         | 69.9   | mg/dL | Optimum>60<br>Borderline : 50-59<br>High risk : <50                                                                  | Direct      |
| Serum<br>LDL CHOLESTEROL         | 89.6   | mg/dl | Optimal: < 100<br>Near/Above Optimal: 100 - 129<br>Borderline High: 130 - 159<br>High: 160 - 189<br>Very High: > 189 | Direct      |
| Serum<br>VLDL CHOLESTEROL        | 21.32  | mg/dL | 0 - 30                                                                                                               | Calculation |
| Serum<br>LDL / HDL RATIO         | 1.3    | --    | < 3.5                                                                                                                | Calculation |
| Serum                            |        |       |                                                                                                                      |             |

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End Of The Report

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**CONFIDENTIAL LABORATORY REPORT**

Patient Name : **Ms. MINA MESTOURI**  
Age / Sex : 24 Y / Female  
DOB : **22/10/2000**  
Referral Doctor :  
Referrer : CITICARE MEDICAL CENTER L.L.C  
SID.No. : **FD020231**  
Patient No : **FCL020331**

Request Date : 21/04/2025 21:13  
Collected Date : 21/04/2025 21:10  
Acceptance Date : 21/04/2025 22:16  
Report Date : 22/04/2025 21:47  
Report Status : **Final Report**  
External Visit Id : **46566**

| INVESTIGATION / SPECIMEN | RESULT | UNIT | REFERENCE RANGE | METHOD |
|--------------------------|--------|------|-----------------|--------|
|--------------------------|--------|------|-----------------|--------|

**CLINICAL BIOCHEMISTRY**  
**CITICARE PULSEFIT PACKAGE**

|                               |     |    |       |             |
|-------------------------------|-----|----|-------|-------------|
| TOTAL CHOLESTEROL / HDL RATIO | 2.4 | -- | < 4.5 | Calculation |
| Serum                         |     |    |       |             |

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|----------------------------------|--------|-------|-----------------|------------------------|
| <b>CLINICAL BIOCHEMISTRY</b>     |        |       |                 |                        |
| <b>CITICARE PULSEFIT PACKAGE</b> |        |       |                 |                        |
| BILIRUBIN (TOTAL)                | 0.34   | mg/dL | Up to 1.2       | DSA                    |
| Serum                            |        |       |                 |                        |
| BILIRUBIN (DIRECT)               | 0.11   | mg/dL | 0.00 - 0.4      | DSA                    |
| Serum                            |        |       |                 |                        |
| INDIRECT BILIRUBIN               | 0.23   | mg/dL | < or = 0.90     | Calculation            |
| Serum                            |        |       |                 |                        |
| TOTAL PROTEIN                    | 6.2    | g/dL  | 6 - 8           | Biuret                 |
| Serum                            |        |       |                 |                        |
| ALBUMIN (SERUM)                  | 4.1    | g/dL  | 3.5 - 4.8       | Bromcresol green (BCG) |
| Serum                            |        |       |                 |                        |
| GLOBULIN                         | 2.1    | g/dL  | 2.0 - 3.5       | Calculation            |
| Serum                            |        |       |                 |                        |
| ALBUMIN / GLOBULIN RATIO         | 1.95   | NULL  | 0.8 - 2.0       | Calculation            |
| Serum                            |        |       |                 |                        |
| ALT / SGPT                       | 18     | U/L   | 10 - 40         | IFCC                   |
| Serum                            |        |       |                 |                        |
| ALP (ALKALINE PHOSPHATASE)       | 82.7   | U/L   | 30 - 115        | IFCC                   |
| Serum                            |        |       |                 |                        |
| GGT (GAMMA GLUTAMYL TRANSFERASE) | 20.4   | U/L   | 7 - 50          | IFCC                   |
| Serum                            |        |       |                 |                        |
| AST / SGOT                       | 19.8   | U/L   | 10 - 40         | IFCC                   |
| Serum                            |        |       |                 |                        |

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| DOB             | : 22/10/2000                    | Acceptance Date   | : 21/04/2025 22:16    |
| Referral Doctor | :                               | Report Date       | : 23/04/2025 06:28    |
| Referrer        | : CITICARE MEDICAL CENTER L.L.C | Report Status     | : <b>Final Report</b> |
| SID.No.         | : FD020231                      | External Visit Id | : 46566               |
| Patient No      | : FCL020331                     |                   |                       |

| INVESTIGATION / SPECIMEN                                                 | RESULT       | UNIT   | REFERENCE RANGE                                                                                                       | METHOD      |
|--------------------------------------------------------------------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------|-------------|
| <b>ENDOCRINOLOGY</b>                                                     |              |        |                                                                                                                       |             |
| <b>CITICARE PULSEFIT PACKAGE</b>                                         |              |        |                                                                                                                       |             |
| TRIIODOTHYRONINE, TOTAL (T3)                                             | 1.2          | ng/mL  | 0.8 - 1.9                                                                                                             | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| THYROXINE, TOTAL (T4)                                                    | 7.1          | ug/dL  | 5 - 13                                                                                                                | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| THYROID STIMULATING HORMONE (TSH)                                        | 0.973        | μIU/mL | 0.35 - 4.75                                                                                                           | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| FOLLICLE STIMULATING HORMONE (FSH)                                       | 7.507        | mIU/mL | Follicular phase: 2.50 - 11.40<br>Midcycle Peak: 3.3 - 21.7 Luteal Phase: 1.2 - 7.0<br>Postmenopausal: 18.8 - 132.0   | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| LUTEINISING HORMONE (LH)                                                 | 9.739        | mIU/mL | Follicular phase: 1.2 - 12.7<br>Midcycle Peak: 15.2 - 90.0<br>Luteal Phase: 0.5 - 14.6<br>Postmenopausal: 15.6 - 72.0 | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| PROLACTIN                                                                | 567.91       | uIU/mL | 51 - 580                                                                                                              | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| TESTOSTERONE (TOTAL)                                                     | 0.17         | ng/mL  | 0.1 - 0.9                                                                                                             | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| TESTOSTERONE (FREE)                                                      | <b>0.003</b> | ng/mL  | 0.07-0.3                                                                                                              | Calculation |
| Serum                                                                    |              |        |                                                                                                                       |             |
| SHBG (SEX HORMONE BINDING GLOBULIN)                                      | 36.09        | nmol/L | 18.2 - 135.5                                                                                                          | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| VITAMIN B12                                                              | <b>9033</b>  | pg/mL  | 180 - 916                                                                                                             | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |
| <b>Comments</b> : Test repeated twice & confirmed. Co relate clinically. |              |        |                                                                                                                       |             |
| VITAMIN D, 25-OH (TOTAL)                                                 | 34           | ng/mL  | Deficient : < 20<br>Insufficient: 20 - < 30<br>Sufficient : 30 - 100<br>Upper Safety Limit:: > 100                    | CLIA        |
| Serum                                                                    |              |        |                                                                                                                       |             |

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Laboratory Director  
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**ENDOCRINOLOGY**

**CITICARE PULSEFIT PACKAGE**

|          |    |        |                                                                                                                                                                              |      |
|----------|----|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| BETA HCG | <2 | mIU/mL | Non-Pregnant<br>Females: <2.9<br>Week after LMP<br>1-10 weeks 195 -<br>229796<br>11-15 weeks 22305 -<br>233036<br>16-22 weeks 7902 -<br>49645<br>23-40 weeks 1580 -<br>48608 | CLIA |
|----------|----|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|

Serum

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DHA-00208333-004

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**ENDOCRINOLOGY**

**CITICARE PULSEFIT PACKAGE**

|                |      |       |                                                                                                             |      |
|----------------|------|-------|-------------------------------------------------------------------------------------------------------------|------|
| ESTRADIOL (E2) | 43.1 | pg/mL | Follicular Phase: 30 - 150<br>Mid Cycle Peak: 60 - 480<br>Luteal Phase: 45 - 250<br>Post Menopausal: < 60.0 | CLIA |
|----------------|------|-------|-------------------------------------------------------------------------------------------------------------|------|

|                       |       |       |                                                                                                                                                                                                                                         |      |
|-----------------------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Serum<br>PROGESTERONE | 0.255 | ng/mL | Follicular Phase : 0.00 - 1.40<br>Luteal Phase: 3.34 - 25.56 Mid<br>luteal phase: 4.44 - 28.03 Post<br>Menopausal: 0.00 - 0.73 First<br>trimester: 11.22 - 90.0 Second<br>trimester: 25.55 - 89.40<br>Third trimester:<br>48.40- 422.50 | CLIA |
|-----------------------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|

Serum

**Interpretation Notes** : A progesterone test may be used:To help recognize and manage some causes of infertility. Since progesterone levels vary throughout the menstrual cycle, multiple (serial) measurements can be used for this purpose.To determine whether or not a woman has ovulated, when ovulation occurred, or to monitor the success of induced ovulationIn early pregnancy to help diagnose an ectopic or failing pregnancy, along with human chorionic gonadotropin (hCG) testing To monitor a high-risk pregnancy to help evaluate placenta and fetal healthIf a woman is receiving progesterone injections to help support her early pregnancy, to help determine the effectiveness of the replacement treatmentAlong with other tests such as an FSH, LH, hCG, thyroid tests, clotting tests, and a complete blood count (CBC) to help determine the cause of abnormal uterine bleeding in non-pregnant women

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