

|                                  |                                      |                            |                    |
|----------------------------------|--------------------------------------|----------------------------|--------------------|
| <b>Patient Name</b>              | : Ms. PENINAH NJAMBI KIARIE          | <b>Sample UID No.</b>      | : 4104547          |
| <b>Age / Gender</b>              | : 34 Y / Female                      | <b>Sample Collected On</b> | : 03-08-2025 15:58 |
| <b>Patient ID</b>                | : QLD104099                          | <b>Registered On</b>       | : 03-08-2025 15:59 |
| <b>Referred By</b>               | : Dr. AISHA                          | <b>Reported on</b>         | : 04-08-2025 02:50 |
| <b>Referral Client</b>           | : CITICARE MEDICAL CENTER(INSURANCE) | <b>External Patient ID</b> | : 44816            |
| <b>Emirates ID / Passport No</b> | :                                    | <b>Print Version</b>       | : V.1              |

### Department of BIOCHEMISTRY

| <u>Investigation</u> | <u>Results</u> | <u>Flag</u> | <u>Units</u> | <u>Biological Reference Interval</u> | <u>Method</u>               |
|----------------------|----------------|-------------|--------------|--------------------------------------|-----------------------------|
| URIC ACID (SERUM)    | 3.4            |             | mg/dl        | 2.4-5.7                              | Enzymatic colorimetric test |

Sample: Serum

#### Interpretation Notes :

#### Clinical implication:

1) Measurement of uric acid is most commonly used in the evaluation of renal failure, gout and leukemia.

#### Interference factor:

1) Stress, strenuous exercise, purine rich diet falsely elevate uric acid level.

2) high level of aspirin, coffee, tea, can decrease uric acid level.

3) Many drugs may cause increase or decrease uric acid level.

#### REFERENCE:

- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]
- 2) Tietz clinical guide to Laboratory tests(Fourth edition) ALAN H.B.WU

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|----------------------------|----------------|-------------|--------------|--------------------------------------|---------------------------------------------|
| * C-REACTIVE PROTEIN (CRP) | 1.2            |             | mg/L         | < 5                                  | Particle enhanced immunoturbidimetric assay |

Sample: Serum

**Comments :**

#### CLINICAL IMPLICATIONS:

1. CRP is the most sensitive acute phase reactant that can increase dramatically (100-fold or more) after severe trauma, bacterial infection, inflammation, surgery or neoplastic proliferation. CRP levels may predict future cardiovascular events and can be used as a screening tool.
2. The traditional test of CRP has added significance over the elevated ESR, which may be influenced by altered physiologic states. CRP tends to increase before rises in antibody titres and ESR level occurs. CRP levels also tend to decrease sooner than ESR levels.
3. The traditional test for CRP is elevated in rheumatic fever, RA, myocardial infarction, malignancy, bacterial and viral infections. The positive test indicates active inflammation but not its cause. In RA, the traditional test for CRP becomes negative with successful treatment and indicates that the inflammation has subsided.
4. High sensitive measurement of CRP (hs-CRP) are useful in assessing vascular inflammation and cardiovascular stratification. A single test for hs-CRP may not reflect an individual patient basal hs-CRP level, therefore follow up tests or serial measurements may be required in patients presenting with increased hs-CRP levels.

**INTERFERING FACTORS:** Haemolysed or lipemic sample may alter the results.

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- 1) Manual of Laboratory and Diagnostics -Frances Fischbach Marshall B. Dunning III [9th Edition]
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#### **Note:**

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| <b>Referred By</b>               | : Dr. AISHA                          | <b>Reported on</b>         | : 04-08-2025 06:55 |
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### Department of CLINICAL PATHOLOGY

#### COMPREHENSIVE URINE ANALYSIS

| Investigation                  | Results | Flag | Units | Biological Reference Interval | Method                 |
|--------------------------------|---------|------|-------|-------------------------------|------------------------|
| Sample: URINE                  |         |      |       |                               |                        |
| <b>MACROSCOPIC EXAMINATION</b> |         |      |       |                               |                        |
| COLOR                          | Yellow  |      |       | Pale to Dark Yellow           | Colorimetric           |
| APPEARANCE                     | Clear   |      |       | -                             | Turbidometric Method   |
| <b>CHEMISTRY EXAMINATION</b>   |         |      |       |                               |                        |
| SPECIFIC GRAVITY               | 1.020   |      |       | 1.002 - 1.035                 | Reflectance photometry |
| pH                             | 5       |      |       | 4.5 - 8                       | Reflectance photometry |
| PROTEIN                        | Neg.    |      |       | Negative                      | Reflectance photometry |
| GLUCOSE                        | Neg.    |      |       | Negative                      | Reflectance photometry |
| KETONE                         | Neg.    |      |       | Negative                      | Reflectance photometry |
| UROBILINOGEN                   | Neg.    |      |       | Negative                      | Reflectance photometry |
| BILIRUBIN                      | Neg.    |      |       | Negative                      | Reflectance photometry |
| BLOOD                          | Neg.    |      |       | Negative                      | Reflectance photometry |
| LEUCOCYTES                     | Neg.    |      |       | Negative                      | Reflectance photometry |
| <b>MICROSCOPIC EXAMINATION</b> |         |      |       |                               |                        |
| NITRATE                        | Neg.    |      |       | NEGATIVE                      | Reflectance photometry |
| PUS CELLS                      | Nil     |      | /HPF  | 0 - 5                         | Microscopy             |
| RBC                            | Nil     |      | /HPF  | 0 - 3                         | Microscopy             |
| NRBC                           | Nil     |      | /HPF  | 0 - 3                         | Microscopy             |
| DRBC                           | Nil     |      | /HPF  | 0 - 3                         | Microscopy             |
| RBC CLUMP                      | Nil     |      | /HPF  | 0 - 3                         | Microscopy             |
| SQUAMOUS EPITHELIAL CELLS      | Few     |      | /HPF  | 0 - 5                         | Microscopy             |
| OTHER EPITHELIAL CELLS         | Nil     |      | /HPF  | 0 - 5                         | Microscopy             |

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### Department of CLINICAL PATHOLOGY

#### COMPREHENSIVE URINE ANALYSIS

| <u>Investigation</u>         | <u>Results</u> | <u>Flag</u> | <u>Units</u> | <u>Biological Reference Interval</u> | <u>Method</u> |
|------------------------------|----------------|-------------|--------------|--------------------------------------|---------------|
| BACTERIA                     | Nil            |             | /HPF         | 0 - 5                                | Microscopy    |
| BACTERIA CLUMP               | Nil            |             | /HPF         | 0 - 5                                | Microscopy    |
| BACTERIA RODS                | Nil            |             | /HPF         | 0 - 5                                | Microscopy    |
| BACTERIA COCCI               | Nil            |             | /HPF         | 0 - 5                                | Microscopy    |
| HYALINE CAST                 | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| PATHOLOGICAL CAST            | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| GRANULAR CAST                | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| CELLULAR CAST                | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| WAXY CAST                    | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| RBC CAST                     | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| WBC CAST                     | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| FACT                         | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| CALCIUM OXALATE CRYSTALS     | Few            |             | /HPF         | NIL                                  | Microscopy    |
| MONOHYDRATE CALCIUM CRYSTALS | Few            |             | /HPF         | NIL                                  | Microscopy    |
| TRIPLE PHOSPHATE CRYSTALS    | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| URIC ACID CRYSTALS           | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| OTHER SMALL CRYSTALS         | Few            |             | /HPF         | NIL                                  | Microscopy    |
| CALCIUM PHOSPHATE CRYSTALS   | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| LEUCINE CRYSTALS             | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| CYSTINE CRYSTALS             | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| TYROSINE CRYSTALS            | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| AMORPHOUS CRYSTALS           | Few            |             | /HPF         | NIL                                  | Microscopy    |

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### Department of CLINICAL PATHOLOGY

#### COMPREHENSIVE URINE ANALYSIS

| <u>Investigation</u> | <u>Results</u> | <u>Flag</u> | <u>Units</u> | <u>Biological Reference Interval</u> | <u>Method</u> |
|----------------------|----------------|-------------|--------------|--------------------------------------|---------------|
| CHOLESTEROL CRYSTALS | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| FAT                  | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| MUCUS                | Occasional     |             | /HPF         | NIL                                  | Microscopy    |
| YEAST                | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| UNCLASSIFIED         | Nil            |             | /HPF         | NIL                                  | Microscopy    |
| OTHERS               | Nil            |             | /HPF         | NIL                                  | Microscopy    |

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| <b>Referred By</b>               | : Dr. AISHA                          | <b>Reported on</b>         | : 04-08-2025 06:55 |
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### Department of HEMATOLOGY

#### COMPREHENSIVE COMPLETE BLOOD COUNT

| <u>Investigation</u>             | <u>Results</u> | <u>Flag</u> | <u>Units</u>        | <u>Biological Reference Interval</u> | <u>Method</u>        |
|----------------------------------|----------------|-------------|---------------------|--------------------------------------|----------------------|
| HEMOGLOBIN                       | 10.1           | L           | g/dl                | 12-15                                | photometric          |
| RBC COUNT                        | 4.15           |             | 10 <sup>6</sup> /uL | 3.8-4.8                              | Electrical Impedance |
| HEMATOCRIT                       | 31.1           | L           | %                   | 37-47                                | Calculation          |
| MCV                              | 74.9           | L           | fL                  | 78-100                               | Calculation          |
| MCH                              | 24.4           | L           | pg                  | 27-31                                | Calculation          |
| MCHC                             | 32.5           |             | g/dl                | 31-35                                | Calculation          |
| RDW                              | 15.4           |             | %                   | 9.3-16                               | Calculation          |
| RDW-SD                           | 42             |             | fL                  | 38.9-49                              | Calculation          |
| MPV                              | 9.2            |             | fL                  | 8.8-12.5                             | Calculation          |
| PLATELET COUNT                   | 425            | H           | 10 <sup>3</sup> /uL | 150-400                              | Electrical Impedance |
| * PCT                            | 0.4            |             | %                   | 0.01-9.99                            | Calculation          |
| * PDW                            | 17.1           |             |                     | 0.1-99.9                             | Calculation          |
| * NUCLEATED RBC (NRBC)^          | 0.14           |             | /100 WBC            |                                      | Flow Cytometry       |
| * ABSOLUTE NRBC COUNT^           | 0.01           |             | 10 <sup>3</sup> /uL |                                      | Calculation          |
| * EARLY GRANULOCYTE COUNT (EGC)^ | 0.23           |             | %                   |                                      | Flow Cytometry       |
| * ABSOLUTE EGC^                  | 0.01           |             | 10 <sup>3</sup> /uL |                                      | Calculation          |
| WBC COUNT                        | 6.6            |             | 10 <sup>3</sup> /uL | 4-11                                 | Electrical Impedance |
| * Neutrophil                     | 53.16          |             | %                   | 40-80                                | VCS-Method           |
| * Lymphocyte                     | 37.43          |             | %                   | 20-40                                | VCS-Method           |
| * Eosinophil                     | 0.67           | L           | %                   | 1-8                                  | VCS-Method           |
| * Monocyte                       | 8.11           |             | %                   | 2-10                                 | VCS-Method           |
| * Basophil                       | 0.63           |             | %                   | 0-2                                  | VCS-Method           |
| * ABSOLUTE NEUTROPHIL COUNT      | 3.5            |             | 10 <sup>3</sup> /uL | 1.5-7                                | Calculation          |
| * ABSOLUTE LYMPHOCYTE COUNT      | 2.47           |             | 10 <sup>3</sup> /uL | 1.5-4                                | Calculation          |
| * ABSOLUTE MONOCYTE COUNT        | 0.54           |             | 10 <sup>3</sup> /uL | 0-0.8                                | Calculation          |
| * ABSOLUTE EOSINOPHIL COUNT      | 0.04           |             | 10 <sup>3</sup> /uL | 0-0.6                                | Calculation          |
| * ABSOLUTE BASOPHIL COUNT        | 0.04           |             | 10 <sup>3</sup> /uL | 0-0.2                                | Calculation          |

Sample: EDTA Whole Blood

- END OF REPORT -

**Note:**

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