

# smart Health Report

An Insightful Health Analytics Report  
for Easier Understanding

Prepared For

**Mr MR.DUMMY**

**M 23**



**Name**  
Mr MR.DUMMY

**Patient ID**  
8052670

**Gender**  
M

**Age**  
23

## Health Summary



### BLOOD COUNTS

Everything looks good



### THYROID PROFILE

Everything looks good



### LIPID PROFILE

Everything looks good



### DIABETES MONITORING

Everything looks good



### KIDNEY PROFILE

Everything looks good



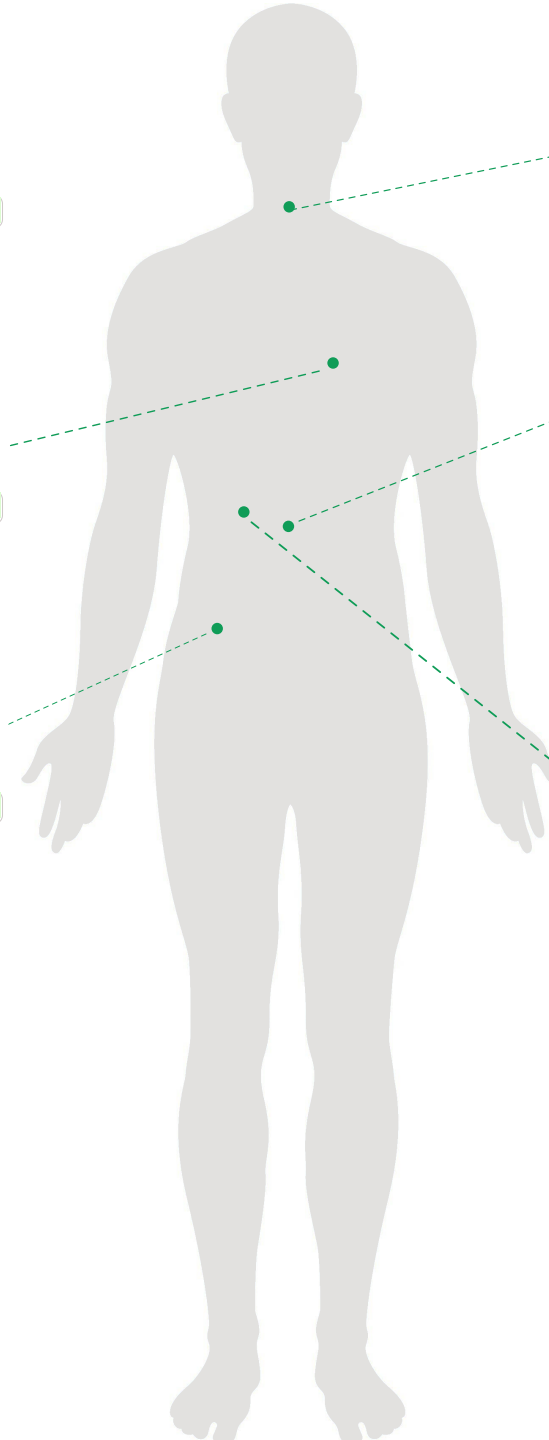
### LIVER PROFILE

Everything looks good



### ANEMIA STUDIES

Everything looks good



|                   |                      |                  |                           |
|-------------------|----------------------|------------------|---------------------------|
| Patient Name      | : Mr MR.DUMMY        |                  |                           |
| DOB/Age/Gender    | : 23 Y/Male          | Sample Collected | : Apr 26, 2024, 01:00 PM  |
| Patient ID / UHID | : 8052670/RCL7249317 | Report Date      | : May 25, 2024, 06:44 PM. |
| Referred By       | : Dr. Dr. X          | Barcode No       | : HY585739                |
| Sample Type       | : Whole blood EDTA   | Report Status    | : Final Report            |
| Test Description  | Value(s)             | Unit(s)          | Reference Range           |

Diabetes Profile- Advance

Complete Blood Count (CBC)

|                                                   |      |                     |             |
|---------------------------------------------------|------|---------------------|-------------|
| RBC Parameters                                    |      |                     |             |
| Hemoglobin<br><i>colorimetric</i>                 | 13.8 | g/dL                | 13.0 - 17.0 |
| RBC Count<br><i>Electrical impedance</i>          | 5.4  | 10 <sup>6</sup> /μl | 4.5 - 5.5   |
| PCV<br><i>Calculated</i>                          | 42.1 | %                   | 40 - 50     |
| MCV<br><i>Calculated</i>                          | 78.4 | fl                  | 83 - 101    |
| MCH<br><i>Calculated</i>                          | 25.6 | pg                  | 27 - 32     |
| MCHC<br><i>Calculated</i>                         | 32.7 | g/dL                | 31.5 - 34.5 |
| RDW (CV)<br><i>Calculated</i>                     | 13.7 | %                   | 11.6 - 14.0 |
| RDW-SD<br><i>Calculated</i>                       | 34.8 | fl                  | 35.1 - 43.9 |
| WBC Parameters                                    |      |                     |             |
| TLC<br><i>Electrical impedance and microscopy</i> | 12.2 | 10 <sup>3</sup> /μl | 4 - 10      |
| Differential Leucocyte Count                      |      |                     |             |
| Neutrophils<br><i>Laser based Flow-cytometry</i>  | 70   | %                   | 40-80       |
| Lymphocytes<br><i>Laser based Flow-cytometry</i>  | 20   | %                   | 20-40       |
| Monocytes<br><i>Laser based Flow-cytometry</i>    | 8    | %                   | 2-10        |
| Eosinophils<br><i>Laser based Flow-cytometry</i>  | 2    | %                   | 1-6         |
| Basophils<br><i>Laser based Flow-cytometry</i>    | 0    | %                   | <2          |
| Absolute Leukocyte Counts                         |      |                     |             |
| Neutrophils.<br><i>Calculated</i>                 | 8.54 | 10 <sup>3</sup> /μl | 2 - 7       |
| Lymphocytes.<br><i>Calculated</i>                 | 2.44 | 10 <sup>3</sup> /μl | 1 - 3       |
| Monocytes.<br><i>Calculated</i>                   | 0.98 | 10 <sup>3</sup> /μl | 0.2 - 1.0   |
| Eosinophils.<br><i>Calculated</i>                 | 0.24 | 10 <sup>3</sup> /μl | 0.02 - 0.5  |
| Basophils.                                        | 0    | 10 <sup>3</sup> /μl | 0.02 - 0.5  |



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| Patient Name : Mr MR.DUMMY                                                                                                                                                                                                 |          |                                           |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------|-----------------|
| DOB/Age/Gender : 23 Y/Male                                                                                                                                                                                                 |          | Sample Collected : Apr 26, 2024, 01:00 PM |                 |
| Patient ID / UHID : 8052670/RCL7249317                                                                                                                                                                                     |          | Report Date : May 25, 2024, 06:44 PM.     |                 |
| Referred By : Dr. Dr. X                                                                                                                                                                                                    |          | Barcode No : HY585739                     |                 |
| Sample Type : Whole blood EDTA                                                                                                                                                                                             |          | Report Status : Final Report              |                 |
| Test Description                                                                                                                                                                                                           | Value(s) | Unit(s)                                   | Reference Range |
| Calculated                                                                                                                                                                                                                 |          |                                           |                 |
| Platelet Parameters                                                                                                                                                                                                        |          |                                           |                 |
| Platelet Count<br><i>Electrical impedance and microscopy</i>                                                                                                                                                               | 217      | 10 <sup>3</sup> /μl                       | 150 - 410       |
| Mean Platelet Volume (MPV)<br><i>Calculated</i>                                                                                                                                                                            | 9.9      | fL                                        | 9.3 - 12.1      |
| PCT<br><i>Calculated</i>                                                                                                                                                                                                   | 0.2      | %                                         | 0.17 - 0.32     |
| PDW<br><i>Calculated</i>                                                                                                                                                                                                   | 17.3     | fL                                        | 8.3 - 25.0      |
| P-LCR<br><i>Calculated</i>                                                                                                                                                                                                 | 34.5     | %                                         | 18 - 50         |
| P-LCC<br><i>Calculated</i>                                                                                                                                                                                                 | 75       | %                                         | 44 - 140        |
| Mentzer Index<br><i>Calculated</i>                                                                                                                                                                                         | 14.52    | %                                         | > 13            |
| <b>Interpretation:</b><br>CBC provides information about red cells, white cells and platelets. Results are useful in the diagnosis of anemia, infections, leukemias, clotting disorders and many other medical conditions. |          |                                           |                 |

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Erythrocyte Sedimentation Rate (ESR)

| ESR - Erythrocyte Sedimentation Rate<br>MODIFIED WESTERGREN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8    | mm/hr  | 0 - 10 |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|--------|-----|------|--------|-------|-----|-----|------------|-----|-----|-------------|------|------|--------------------|------|------|---------------|------|------|--------------|------|------|---------------|------|------|----------------|------|------|
| <b>Interpretation:</b><br>ESR is also known as Erythrocyte Sedimentation Rate. An ESR test is used to assess inflammation in the body. Many conditions can cause an abnormal ESR, so an ESR test is typically used with other tests to diagnose and monitor different diseases. An elevated ESR may occur in inflammatory conditions including infection, rheumatoid arthritis ,systemic vasculitis, anemia, multiple myeloma , etc. Low levels are typically seen in congestive heart failure, polycythemia ,sickle cell anemia, hypo fibrinogenemia , etc. |      |        |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| <table><tr><th>AGE</th><th>MALE</th><th>FEMALE</th></tr><tr><td>1 DAY</td><td>0-2</td><td>0-2</td></tr><tr><td>2 - 7 DAYS</td><td>0-4</td><td>0-4</td></tr><tr><td>8 - 14 DAYS</td><td>0-17</td><td>0-17</td></tr><tr><td>15 DAYS - 17 YEARS</td><td>0-20</td><td>0-20</td></tr><tr><td>18 - 50 YEARS</td><td>0-10</td><td>0-12</td></tr><tr><td>51- 60 YEARS</td><td>0-12</td><td>0-19</td></tr><tr><td>61 - 70 YEARS</td><td>0-14</td><td>0-20</td></tr><tr><td>71 - 100 YEARS</td><td>0-30</td><td>0-35</td></tr></table>                                 |      |        |        | AGE | MALE | FEMALE | 1 DAY | 0-2 | 0-2 | 2 - 7 DAYS | 0-4 | 0-4 | 8 - 14 DAYS | 0-17 | 0-17 | 15 DAYS - 17 YEARS | 0-20 | 0-20 | 18 - 50 YEARS | 0-10 | 0-12 | 51- 60 YEARS | 0-12 | 0-19 | 61 - 70 YEARS | 0-14 | 0-20 | 71 - 100 YEARS | 0-30 | 0-35 |
| AGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MALE | FEMALE |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| 1 DAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0-2  | 0-2    |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| 2 - 7 DAYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0-4  | 0-4    |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| 8 - 14 DAYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0-17 | 0-17   |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| 15 DAYS - 17 YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0-20 | 0-20   |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| 18 - 50 YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0-10 | 0-12   |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| 51- 60 YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0-12 | 0-19   |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| 61 - 70 YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0-14 | 0-20   |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| 71 - 100 YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0-30 | 0-35   |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |
| <b>Reference-</b> Dacie and lewis practical hematology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |        |        |     |      |        |       |     |     |            |     |     |             |      |      |                    |      |      |               |      |      |              |      |      |               |      |      |                |      |      |

  
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| Patient Name      | : Mr MR.DUMMY        | Sample Collected | : Apr 26, 2024, 01:00 PM  |
|-------------------|----------------------|------------------|---------------------------|
| DOB/Age/Gender    | : 23 Y/Male          | Report Date      | : May 25, 2024, 06:43 PM. |
| Patient ID / UHID | : 8052670/RCL7249317 | Barcode No       | : HY585739                |
| Referred By       | : Dr. Dr. X          | Report Status    | : Final Report            |
| Sample Type       | : Whole blood EDTA   |                  |                           |
| Test Description  | Value(s)             | Unit(s)          | Reference Range           |

**HbA1C (Glycosylated Haemoglobin)**

|                                         |        |       |                   |
|-----------------------------------------|--------|-------|-------------------|
| Glycosylated Hemoglobin (HbA1c)<br>HPLC | 5.4    | %     | < 5.7             |
| Estimated Average Glucose               | 108.28 | mg/dL | Refer Table Below |

**Interpretation:**

Interpretation For HbA1c% As per American Diabetes Association (ADA)

| Reference Group                        | HbA1c in %                                                                          |
|----------------------------------------|-------------------------------------------------------------------------------------|
| Non diabetic adults >=18 years         | <5.7                                                                                |
| At risk (Prediabetes)                  | 5.7 - 6.4                                                                           |
| Diagnosing Diabetes                    | >= 6.5                                                                              |
| Therapeutic goals for glycemic control | Age > 19 years<br>Goal of therapy: < 7.0<br>Age < 19 years<br>Goal of therapy: <7.5 |

**Note:**

1. Since HbA1c reflects long term fluctuations in the blood glucose concentration, a diabetic patient who is recently under good control may still have a high concentration of HbA1c. Converse is true for a diabetic previously under good control but now poorly controlled. 2. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targeting a goal of < 7.0 % may not be appropriate

**Comments :**

HbA1c provides an index of average blood glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations ADA criteria for correlation between HbA1c & Mean plasma glucose levels.

| HbA1c(%) | Mean Plasma Glucose (mg/dL) | HbA1c(%) | Mean Plasma Glucose (mg/dL) |
|----------|-----------------------------|----------|-----------------------------|
| 6        | 126                         | 12       | 298                         |
| 8        | 183                         | 14       | 355                         |
| 10       | 240                         | 16       | 413                         |



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| Patient Name      | : Mr MR.DUMMY        |                  |                           |
| DOB/Age/Gender    | : 23 Y/Male          | Sample Collected | : Apr 26, 2024, 01:00 PM  |
| Patient ID / UHID | : 8052670/RCL7249317 | Report Date      | : May 08, 2024, 11:46 AM. |
| Referred By       | : Dr. Dr. X          | Barcode No       | : ZC664161                |
| Sample Type       | : FLUORIDE F         | Report Status    | : Final Report            |
| Test Description  | Value(s)             | Unit(s)          | Reference Range           |

Glucose Fasting (BSF)

|                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |       |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------|------|
| Glucose Fasting<br><i>Hexokinase</i>                                                                                                                                                                                                                                                                                                                                                                               | 98.0                                   | mg/dL | <100 |
| <b>Interpretation:</b>                                                                                                                                                                                                                                                                                                                                                                                             |                                        |       |      |
| <b>Status</b>                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Fasting plasma glucose in mg/dL</b> |       |      |
| Normal                                                                                                                                                                                                                                                                                                                                                                                                             | <100                                   |       |      |
| Impaired fasting glucose                                                                                                                                                                                                                                                                                                                                                                                           | 100 - 125                              |       |      |
| Diabetes                                                                                                                                                                                                                                                                                                                                                                                                           | ≥126                                   |       |      |
| <b>Reference</b> : American Diabetes Association                                                                                                                                                                                                                                                                                                                                                                   |                                        |       |      |
| <b>Comment :</b><br>Blood glucose determinations in commonly used as an aid in the diagnosis and treatment of diabetes. Elevated glucose levels (hyperglycemia) may also occur with pancreatic neoplasm, hyperthyroidism, and adrenal cortical hyper function as well as other disorders. Decreased glucose levels (hypoglycemia) may result from excessive insulin therapy insulinoma, or various liver diseases. |                                        |       |      |
| <b>Note</b><br>1.The diagnosis of Diabetes requires a fasting plasma glucose of > or = 126 mg/dL or a random / 2 hour plasma glucose value of > or = 200 mg/dL with symptoms of diabetes mellitus.<br>2.Very high glucose levels (>450 mg/dL in adults) may result in Diabetic Ketoacidosis.                                                                                                                       |                                        |       |      |

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Patient Name : Mr MR.DUMMY

DOB/Age/Gender : 23 Y/Male

Patient ID / UHID : 8052670/RCL7249317

Referred By : Dr. Dr. X

Sample Type : Serum

Sample Collected : Apr 26, 2024, 01:00 PM

Report Date : May 08, 2024, 12:46 PM.

Barcode No : ZC664160

Report Status : Final Report

| Test Description | Value(s) | Unit(s) | Reference Range |
|------------------|----------|---------|-----------------|
|------------------|----------|---------|-----------------|

**Liver Function Test (LFT)**

|                                                                  |      |       |           |
|------------------------------------------------------------------|------|-------|-----------|
| Bilirubin Total<br><i>Diazo</i>                                  | 0.2  | mg/dL | 0 - 1.2   |
| Bilirubin Direct<br><i>Diazo Jondrof</i>                         | 0.1  | mg/dL | 0 - 0.20  |
| Bilirubin Indirect<br><i>Calculation (T Bil - D Bil)</i>         | 0.1  | mg/dL | 0.1 - 1.0 |
| SGOT/AST<br><i>IFCC without P5P</i>                              | 15   | U/L   | up to 40  |
| SGPT/ALT<br><i>IFCC without P5P</i>                              | 16   | U/L   | up to 41  |
| SGOT/SGPT Ratio<br><i>Calculated</i>                             | 0.94 | %     | -         |
| Alkaline Phosphatase<br><i>IFCC</i>                              | 95   | U/L   | 40 - 129  |
| Total Protein<br><i>Biuret</i>                                   | 6.9  | g/dL  | 6.4 - 8.3 |
| Albumin<br><i>BCG Colorimetric</i>                               | 4.0  | g/dL  | 3.5 - 5.2 |
| Globulin<br><i>Calculation (T.P - Albumin)</i>                   | 2.9  | g/dL  | 2.3 - 3.5 |
| Albumin :Globulin Ratio<br><i>Calculation (Albumin/Globulin)</i> | 1.38 | -     | 1.3 - 2.1 |
| Gamma Glutamyl Transferase (GGT)<br><i>IFCC Colorimetric</i>     | 10   | U/L   | 8 - 61    |

**Interpretation:**

The liver filters and processes blood as it circulates through the body. It metabolizes nutrients, detoxifies harmful substances, makes blood clotting proteins, and performs many other vital functions. The cells in the liver contain proteins called enzymes that drive these chemical reactions. When liver cells are damaged or destroyed, the enzymes in the cells leak out into the blood, where they can be measured by blood tests. Liver tests check the blood for two main liver enzymes. Aspartate aminotransferase (AST), SGOT: The AST enzyme is also found in muscles and many other tissues besides the liver. Alanine aminotransferase (ALT), SGPT: ALT is almost exclusively found in the liver. If ALT and AST are found together in elevated amounts in the blood, liver damage is most likely present. Alkaline Phosphatase and GGT: Another of the liver's key functions is the production of bile, which helps digest fat. Bile flows through the liver in a system of small tubes (ducts), and is eventually stored in the gallbladder, under the liver. When bile flow is slow or blocked, blood levels of certain liver enzymes rise: Alkaline phosphatase Gamma-utanyl transpeptidase (GGT) Liver tests may check for any or all of these enzymes in the blood. Alkaline phosphatase is by far the most commonly tested of the three. If alkaline phosphatase and GGT are elevated, a problem with bile flow is most likely present. Bile flow problems can be due to a problem in the liver, the gallbladder, or the tubes connecting them. Proteins are important building blocks of all cells and tissues. Proteins are necessary for your body's growth, development, and health. Blood contains two classes of protein, albumin and globulin. Albumin proteins keep fluid from leaking out of blood vessels. Globulin proteins play an important role in your immune system. Low total protein may

**Indicate:**

1. Bleeding
2. Liver disorder
3. Malnutrition
4. Agammaglobulinemia High Protein levels 'Hyperproteinemia: May be seen in dehydration due to inadequate water intake or to excessive water loss (eg, severe vomiting, diarrhea, Addison's disease and diabetic acidosis) or as a result of increased production of proteins Low

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| Referred By : Dr. Dr. X                |  | Barcode No : ZC664160                     |  |
| Sample Type : Serum                    |  | Report Status : Final Report              |  |

| Test Description                                                           | Value(s) | Unit(s) | Reference Range |
|----------------------------------------------------------------------------|----------|---------|-----------------|
| albumin levels may be                                                      |          |         |                 |
| <b>Caused by:</b>                                                          |          |         |                 |
| 1.A poor diet (malnutrition).                                              |          |         |                 |
| 2.Kidney disease.                                                          |          |         |                 |
| 3.Liver disease. High albumin levels may be caused by: Severe dehydration. |          |         |                 |

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| Referred By : Dr. Dr. X                |          | Barcode No : ZC664160                     |                 |
| Sample Type : Serum                    |          | Report Status : Final Report              |                 |
| Test Description                       | Value(s) | Unit(s)                                   | Reference Range |

Kidney Function Test (KFT)

|                                           |       |        |             |
|-------------------------------------------|-------|--------|-------------|
| Blood Urea<br><i>Urease with UV</i>       | 22.0  | mg/dL  | 16.6 - 48.5 |
| Creatinine<br><i>Jaffes</i>               | 0.9   | mg/dL  | 0.70 - 1.20 |
| Bun<br><i>Calculated</i>                  | 10.28 | mg/dL  | 6 - 20      |
| Bun/Creatinine Ratio<br><i>Calculated</i> | 11.42 |        |             |
| Urea / Creatinine Ratio                   | 24.44 |        |             |
| Uric Acid<br><i>Uricase</i>               | 4.1   | mg/dL  | 3.4 - 7.0   |
| Calcium Serum<br><i>BAPTA</i>             | 9.5   | mg/dL  | 8.6 - 10.0  |
| Phosphorus<br><i>Molybdate UV</i>         | 4.2   | mg/dL  | 2.5 - 4.5   |
| Sodium<br><i>ISE-Indirect</i>             | 139.0 | mmol/L | 136 - 145   |
| Potassium<br><i>ISE-Indirect</i>          | 4.5   | mmol/L | 3.5 - 5.1   |
| Chloride<br><i>ISE-Indirect</i>           | 102.0 | mmol/L | 98 - 107    |

**Interpretation:**  
Kidney function tests is a collective term for a variety of individual tests and procedures that can be done to evaluate how well the kidneys are functioning. Many conditions can affect the ability of the kidneys to carry out their vital functions. Some lead to a rapid (acute) decline in kidney function others lead to a gradual (chronic) decline in function. Both result in a buildup of toxic waste substances done on urine samples, as well as on blood samples. A number of symptoms may indicate a problem with your kidneys. These include : high blood pressure, blood in urine frequent urges to urinate, difficulty beginning urination, painful urination, swelling in the hands and feet due to a buildup of fluids in the body. A single symptom may not mean something serious. However, when occurring simultaneously, these symptoms suggest that your kidneys are not working properly. Kidney function tests can help determine the reason. Electrolytes (sodium, potassium, and chloride) are present in the human body and the balancing act of the electrolytes in our bodies is essential for normal function of our cells and organs. There has to be a balance. Ionized calcium this test if you have signs of kidney or parathyroid disease. The test may also be done to monitor progress and treatment of these diseases.



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|                   |                      |                  |                           |
|-------------------|----------------------|------------------|---------------------------|
| Patient Name      | : Mr MR.DUMMY        |                  |                           |
| DOB/Age/Gender    | : 23 Y/Male          | Sample Collected | : Apr 26, 2024, 01:00 PM  |
| Patient ID / UHID | : 8052670/RCL7249317 | Report Date      | : May 08, 2024, 12:40 PM. |
| Referred By       | : Dr. Dr. X          | Barcode No       | : ZC664160                |
| Sample Type       | : Serum              | Report Status    | : Final Report            |
| Test Description  | Value(s)             | Unit(s)          | Reference Range           |

Lipid Profile

|                                                |      |       |      |
|------------------------------------------------|------|-------|------|
| Total Cholesterol<br><i>CHOD-PAP</i>           | 125  | mg/dL | <200 |
| Triglycerides<br><i>Enzymatic colorimetric</i> | 95   | mg/dL | <150 |
| HDL Cholesterol<br><i>CHOD-POD</i>             | 52   | mg/dL | > 40 |
| Non HDL Cholesterol<br><i>Calculated</i>       | 73   | mg/dL | <130 |
| LDL Cholesterol<br><i>Calculated</i>           | 54   | mg/dL | <100 |
| V.L.D.L Cholesterol<br><i>Calculated</i>       | 19   | mg/dL | < 30 |
| Chol/HDL Ratio<br><i>Calculated</i>            | 2.4  | Ratio | -    |
| HDL/ LDL Ratio<br><i>Calculated</i>            | 0.96 | Ratio | -    |
| LDL/HDL Ratio<br><i>Calculated</i>             | 1.04 | Ratio | -    |

**Interpretation:**  
Lipid level assessments must be made following 9 to 12 hours of fasting, otherwise assay results might lead to erroneous interpretation. NCEP recommends of 3 different samples to be drawn at intervals of 1 week for harmonizing biological variables that might be encountered in single assays.

| National Lipid Association Recommendations (NLA-2014) | Total Cholesterol (mg/dL) | Triglyceride (mg/dL) | LDL Cholesterol (mg/dL) | Non HDL Cholesterol (mg/dL) |
|-------------------------------------------------------|---------------------------|----------------------|-------------------------|-----------------------------|
| Optimal                                               | <200                      | <150                 | <100                    | <130                        |
| Above Optimal                                         |                           |                      | 100-129                 | 130 - 159                   |
| Borderline High                                       | 200-239                   | 150-199              | 130-159                 | 160 - 189                   |
| High                                                  | >=240                     | 200-499              | 160-189                 | 190 - 219                   |
| Very High                                             | -                         | >=500                | >=190                   | >=220                       |

| HDL Cholesterol |      |
|-----------------|------|
| Low             | High |
| <40             | >=60 |

Risk Stratification for ASCVD (Atherosclerotic Cardiovascular Disease) by Lipid Association of India.

|                    |                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Risk Category      | A. CAD with > 1 feature of high risk group                                                                                            |
| Extreme risk group | B. CAD with >1 feature of very high risk group of recurrent ACS (within 1 year) despite LDL-C <or = 50 mg/dl or poly vascular disease |



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Patient Name : Mr MR.DUMMY

DOB/Age/Gender : 23 Y/Male

Patient ID / UHID : 8052670/RCL7249317

Referred By : Dr. Dr. X

Sample Type : Serum

Sample Collected : Apr 26, 2024, 01:00 PM

Report Date : May 08, 2024, 12:40 PM.

Barcode No : ZC664160

Report Status : Final Report

| Test Description                                                  | Value(s)                                                                                                                                                                                                                                                                                  | Unit(s) | Reference Range |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|
| Very High Risk                                                    | 1.Established ASCVD 2.Diabetes with 2 major risk factors of evidence of end organ damage 3. Familial Homozygous Hypercholesterolemia                                                                                                                                                      |         |                 |
| High Risk                                                         | 1. Three major ASCVD risk factors 2. Diabetes with 1 major risk factor or no evidence of end organ damage 3. CHD stage 3B or 4. 4 LDL >190 mg/dl 5. Extreme of a single risk factor 6. Coronary Artery Calcium - CAC > 300 AU 7. Lipoprotein a >= 50 mg/dl 8. Non stenotic carotid plaque |         |                 |
| Moderate Risk                                                     | 2 major ASCVD risk factors                                                                                                                                                                                                                                                                |         |                 |
| Low Risk                                                          | 0-1 major ASCVD risk factors                                                                                                                                                                                                                                                              |         |                 |
| Major ASCVD (Atherosclerotic cardiovascular disease) Risk Factors |                                                                                                                                                                                                                                                                                           |         |                 |
| 1. Age >=45 years in Males & >= 55 years in Females               | 3. Current Cigarette smoking or tobacco use                                                                                                                                                                                                                                               |         |                 |
| 2. Family history of premature ASCVD                              | 4. High blood pressure                                                                                                                                                                                                                                                                    |         |                 |
| 5. Low HDL                                                        |                                                                                                                                                                                                                                                                                           |         |                 |

Newer treatment goals and statin initiation thresholds based on the risk categories proposed by Lipid Association of India in 2020.

| Risk Group                    | Treatment Goals              |                              | Consider Drug Therapy |                 |
|-------------------------------|------------------------------|------------------------------|-----------------------|-----------------|
|                               | LDL-C (mg/dl)                | Non-HDL (mg/dl)              | LDL-C (mg/dl)         | Non-HDL (mg/dl) |
| Extreme Risk Group Category A | <50 (Optional goal <OR = 30) | <80 (Optional goal <OR = 60) | >OR = 50              | >OR = 80        |
| Extreme Risk Group Category B | >OR = 30                     | >OR = 60                     | > 30                  | > 60            |
| Very High Risk                | <50                          | <80                          | >OR = 50              | >OR = 80        |
| High Risk                     | <70                          | <100                         | >OR = 70              | >OR = 100       |
| Moderate Risk                 | <100                         | <130                         | >OR = 100             | >OR = 130       |
| Low Risk                      | <100                         | <130                         | >OR = 130*            | >OR = 160       |

\* After an adequate non-pharmacological intervention for at least 3 months.

References : Management of Dyslipidaemia for the Prevention of Stroke : Clinical practice Recommendations from the Lipid Association of India. Current Vascular Pharmacology,2022,20,134-155.



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|                   |                      |                  |                           |
|-------------------|----------------------|------------------|---------------------------|
| Patient Name      | : Mr MR.DUMMY        |                  |                           |
| DOB/Age/Gender    | : 23 Y/Male          | Sample Collected | : Apr 26, 2024, 01:00 PM  |
| Patient ID / UHID | : 8052670/RCL7249317 | Report Date      | : May 08, 2024, 01:01 PM. |
| Referred By       | : Dr. Dr. X          | Barcode No       | : ZC664160                |
| Sample Type       | : Serum              | Report Status    | : Final Report            |
| Test Description  | Value(s)             | Unit(s)          | Reference Range           |

Thyroid Profile Total

|                                                      |      |        |              |
|------------------------------------------------------|------|--------|--------------|
| Triiodothyronine (T3)<br>CMIA                        | 89.0 | ng/dL  | 35 - 193     |
| Total Thyroxine (T4)<br>CMIA                         | 6.7  | µg/dL  | 4.87 - 11.72 |
| Thyroid Stimulating Hormone (Ultrasensitive)<br>CMIA | 2.3  | µIU/mL | 0.35 - 4.94  |

Interpretation:

| Pregnancy      | Reference ranges TSH |
|----------------|----------------------|
| 1 st Trimester | 0.1 - 2.5            |
| 2 ed Trimester | 0.2 - 3.0            |
| 3 rd Trimester | 0.3 - 3.0            |

Primary malfunction of the thyroid gland may result in excessive (hyper) or below normal (hypo) release of T3 or T4. In addition as TSH directly affects thyroid function, malfunction of the pituitary or the hypo - thalamus influences the thyroid gland activity. Disease in any portion of the thyroid-pitutary-hypothala- mus system may influence the levels of T3 and T4 in the blood. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels may be low. In addition, in the Euthyroid Sick Syndrome, multiple alterations in serum thyroid function test findings have been recognized in patients with a wide variety of non-thyroidal illnesses (NTI) without evidence of preexisting thyroid or hypothalami c-pitutary diseases. Thyroid Binding Globulin (TBG) concentrations remain relatively constant in healthy individuals. However, pregnancy, excess estrogen's, androgen's, antibiotic steroids and glucocorticoids are known to alter TBG levels and may cause false thyroid values for Total T3 and T4 tests.

| TSH    | T4             | T3             | INTERPRETATION                                                                                                      |
|--------|----------------|----------------|---------------------------------------------------------------------------------------------------------------------|
| High   | Normal         | Normal         | Mild (subclinical) hypothyroidism                                                                                   |
| High   | Low            | Low or normal  | Hypothyroidism                                                                                                      |
| Low    | Normal         | Normal         | Mild (subclinical) hyperthyroidism                                                                                  |
| Low    | High or normal | High or normal | Hyperthyroidism                                                                                                     |
| Low    | Low or normal  | Low or normal  | Nonthyroidal illness; pituitary (secondary) hypothyroidism                                                          |
| Normal | High           | High           | Thyroid hormone resistance syndrome (a mutation in the thyroid hormone receptor decreases thyroid hormone function) |



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Patient Name : Mr MR.DUMMY

DOB/Age/Gender : 23 Y/Male

Patient ID / UHID : 8052670/RCL7249317

Referred By : Dr. Dr. X

Sample Type : Serum

Sample Collected : Apr 26, 2024, 01:00 PM

Report Date : May 08, 2024, 01:01 PM.

Barcode No : ZC664160

Report Status : Final Report

| Test Description | Value(s) | Unit(s) | Reference Range |
|------------------|----------|---------|-----------------|
|------------------|----------|---------|-----------------|

**Estimated Glomerular Filtration Rate (eGFR)**

|                                               |     |                  |                                                                                                                                                                                |
|-----------------------------------------------|-----|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Creatinine<br><i>Kinetic Alkaline Picrate</i> | 0.9 | mg/dL            | 0.6 - 1.2                                                                                                                                                                      |
| eGFR (CKD-EPI)                                | 120 | ml/min/1.73 sq m | Normal Or High: $\geq 90$<br>Mild Or Decrease: 60-89<br>Mild To Moderate Decrease: 45-59<br>Mild To Severe Decrease: 30-44<br>Severe Decrease: 15-29<br>Kidney Failure: $< 15$ |

**Interpretation:**

1. The CKD-EPI equation, expressed as a single equation, is:

$$\bullet \text{ GFR} = 141 * \min(\text{Scr}/\kappa, 1)^{\alpha} * \max(\text{Scr}/\kappa, 1)^{-1.209} * 0.993^{\text{Age}} * 1.018 [\text{if female}] * 1.159 [\text{if black}]$$

Scr is serum creatinine (mg/dL),  $\kappa$  is 0.7 for females and 0.9 for males,  $\alpha$  is -0.329 for females and -0.411 for males, min indicates the minimum of Scr/ $\kappa$  or 1, and max indicates the maximum of Scr/ $\kappa$  or 1.

2. The CKD-EPI (Chronic Kidney Disease Epidemiology Collaboration) equation was developed in an effort to create a more precise formula to estimate glomerular filtration rate (GFR) from serum creatinine and other readily available clinical parameters, especially at when actual GFR is  $>60$  mL/min per  $1.73\text{m}^2$ .

**Reference:** Levey et al. Annals of Internal Medicine 2009 May 5, 150 (9): 604-12

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|                   |                      |                  |                           |
|-------------------|----------------------|------------------|---------------------------|
| Patient Name      | : Mr MR.DUMMY        |                  |                           |
| DOB/Age/Gender    | : 23 Y/Male          | Sample Collected | : Apr 26, 2024, 01:00 PM  |
| Patient ID / UHID | : 8052670/RCL7249317 | Report Date      | : May 25, 2024, 06:48 PM. |
| Referred By       | : Dr. Dr. X          | Barcode No       | : YA607764                |
| Sample Type       | : Spot Urine         | Report Status    | : Final Report            |
| Test Description  | Value(s)             | Unit(s)          | Reference Range           |

Urine Routine and Microscopic Examination

|                                                                                                                                                                                                                                                  |             |      |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|---------------|
| Physical Examination                                                                                                                                                                                                                             |             |      |               |
| Volume                                                                                                                                                                                                                                           | 20          | ml   | -             |
| Colour                                                                                                                                                                                                                                           | Pale yellow | -    | Pale yellow   |
| Transparency                                                                                                                                                                                                                                     | Clear       | -    | Clear         |
| Deposit                                                                                                                                                                                                                                          | Absent      | -    | Absent        |
| Chemical Examination                                                                                                                                                                                                                             |             |      |               |
| Reaction (pH)<br>Double Indicator                                                                                                                                                                                                                | 5.0         | -    | 4.5 - 8.0     |
| Specific Gravity<br>Ion Exchange                                                                                                                                                                                                                 | 1.020       | -    | 1.010 - 1.030 |
| Urine Glucose (sugar)<br>Oxidase / Peroxidase                                                                                                                                                                                                    | Negative    | -    | Negative      |
| Urine Protein (Albumin)<br>Acid / Base Colour Excahnge                                                                                                                                                                                           | Negative    | -    | Negative      |
| Urine Ketones (Acetone)<br>Legals Test                                                                                                                                                                                                           | Negative    | -    | Negative      |
| Blood<br>Peroxidase Hemoglobin                                                                                                                                                                                                                   | Negative    | -    | Negative      |
| Leucocyte esterase<br>Enzymatic Reaction                                                                                                                                                                                                         | Negative    | -    | Negative      |
| Bilirubin Urine<br>Coupling Reaction                                                                                                                                                                                                             | Negative    | -    | Negative      |
| Nitrite<br>Griless Test                                                                                                                                                                                                                          | Negative    | -    | Negative      |
| Urobilinogen<br>Ehrlichs Test                                                                                                                                                                                                                    | Normal      | -    | Normal        |
| Microscopic Examination                                                                                                                                                                                                                          |             |      |               |
| Pus Cells (WBCs)                                                                                                                                                                                                                                 | 1-2         | /hpf | 0 - 5         |
| Epithelial Cells                                                                                                                                                                                                                                 | 1-2         | /hpf | 0 - 4         |
| Red blood Cells                                                                                                                                                                                                                                  | Absent      | /hpf | Absent        |
| Crystals                                                                                                                                                                                                                                         | Absent      | -    | Absent        |
| Cast                                                                                                                                                                                                                                             | Absent      | -    | Absent        |
| Yeast Cells                                                                                                                                                                                                                                      | Absent      | -    | Absent        |
| Amorphous deposits                                                                                                                                                                                                                               | Absent      | -    | Absent        |
| Bacteria                                                                                                                                                                                                                                         | Absent      | -    | Absent        |
| Protozoa                                                                                                                                                                                                                                         | Absent      | -    | Absent        |
| Interpretation:                                                                                                                                                                                                                                  |             |      |               |
| URINALYSIS- Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders.                                                                                                              |             |      |               |
| Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever |             |      |               |

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Patient Name : Mr MR.DUMMY

DOB/Age/Gender : 23 Y/Male

Patient ID / UHID : 8052670/RCL7249317

Referred By : Dr. Dr. X

Sample Type : Spot Urine

Sample Collected : Apr 26, 2024, 01:00 PM

Report Date : May 25, 2024, 06:48 PM.

Barcode No : YA607764

Report Status : Final Report

| Test Description                                                                                                                                                                                                                                                                                        | Value(s) | Unit(s) | Reference Range |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|-----------------|
| <b>Glucose:</b> Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.                                                                                                                  |          |         |                 |
| <b>Ketones:</b> Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.                                                                                                                   |          |         |                 |
| <b>Blood:</b> Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.                                                                                                                                       |          |         |                 |
| <b>Leukocytes:</b> An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.                                                                                                                                      |          |         |                 |
| <b>Nitrite:</b> Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.                                                                                      |          |         |                 |
| <b>pH:</b> The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food can affect the pH of urine.                                                                                       |          |         |                 |
| <b>Specific gravity:</b> Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus. |          |         |                 |
| <b>Bilirubin:</b> In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.                                                                                                                                                                                 |          |         |                 |
| <b>Urobilinogen:</b> Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of haemolytic anaemia.                                                                                                                                                                       |          |         |                 |

\*\*\* End Of Report \*\*\*

**Disclaimer:** Method given in report are only indicative and can be changed depending upon type of machine and kit available at time of testing.

Not all tests at all locations are under NABL scope. Availability of tests under NABL scope varies from lab to lab.



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2. It is to be presumed that the tests performed pertain to the specimen/sample attributed to the Customer's name or identification. It is presumed that the verification particulars have been cleared out by the customer or his/her representation at the point of generation of said specimen / sample. It is hereby clarified that the reports furnished are restricted solely to the given specimen only.
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