



|                                     |   |
|-------------------------------------|---|
| Name: <b>PRIYANSHI P MEHTA</b>      | Ward: <b>OPD</b>                            |
| Lab ID <b>00000437</b>              | Registration on: <b>28/09/2024 09:01:00</b> |
| Age & Sex: <b>31 Year   Female</b>  | Reported on: <b>12:26:08</b>                |
| Reference: <b>VELOCITY HOSPITAL</b> | Sample Type: <b>BLOOD &amp; URINE</b>       |

### CBC ESR

| Test           | Observed Value | Unit     | Biological Reference Interval |
|----------------|----------------|----------|-------------------------------|
| Haemoglobin    | 12.06          | g/dL     | 12.0 - 16.0                   |
| Total RBC      | 5.11           | mill./cm | 4.00 - 5.20                   |
| Total WBC      | 7340           | /cmm     | 4000 - 11000                  |
| Platelet Count | 312200         | /cmm     | 150000 - 450000               |
| HCT            | 39.6           | %        | 36.0 - 48.0                   |
| MCV            | 77.5 L         | fL       | 80.0 - 100.0                  |
| MCH            | 23.6 L         | pg       | 27.0 - 32.0                   |
| MCHC           | 30.5 L         | g/dL     | 31.5 - 36.0                   |

### DIFFERENTIAL COUNT

|             |      |   |           |
|-------------|------|---|-----------|
| Neutrophils | 77 H | % | 40 - 70   |
| Lymphocytes | 19 L | % | 20 - 40   |
| Eosinophils | 02   | % | 02-05     |
| Monocytes   | 02   | % | 01-07     |
| Basophils   | 00   | % | 00 - 02   |
| Band Cells  | 00   | % | 0.0 - 6.0 |

### ABSOLUTE DIFFERENTIAL COUNT

|             |       |       |             |
|-------------|-------|-------|-------------|
| Neutrophils | 5652  | /cumm | 2000 - 7000 |
| Lymphocytes | 1395  | /cumm | 1000 - 3000 |
| Eosinophils | 147   | /cumm | 20 - 500    |
| Monocytes   | 147 L | /cumm | 200 - 1000  |
| Basophils   | 0     | /cumm | 0 - 100     |

### GLR / NLR

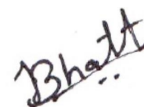
(Neutrophil/Lymphocyte Ratio)

4.1

### MENTZER INDEX

15.2

|        |      |    |             |
|--------|------|----|-------------|
| RDW-CV | 13.8 | %  | 11.1 - 14.1 |
| RDW-SD | 42.8 | fl |             |
| MPV    | 8.8  | fl |             |
| PCT    | 0.27 | %  |             |



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Sample Type: **BLOOD & URINE**

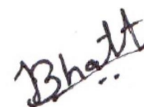
PDW 18.4 %

PERIPHERAL SMEAR EXAMINATION

RBC Morphology Microcytosis (+), Anisocytosis (+),  
WBC Morphology Appear normal, Immature cells are not seen .  
Platelets in Smear Adequate.

Malarial Parasites Not Detected.

ESR  
AFTER 1 HOUR 34 H mm/hr 0.0 - 20.0



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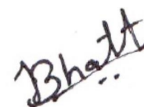


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## BLOOD GROUP

| Test        | Observed Value | Unit | Biological Reference Interval |
|-------------|----------------|------|-------------------------------|
| Blood Group | "A"            |      |                               |
| Rh Factor   | POSITIVE       |      |                               |



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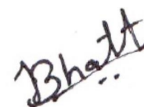


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## BLOOD GLUCOSE TEST

| Test  | Observed Value              | Unit          | Biological Reference Interval |
|---|-----------------------------|---------------|-------------------------------|
| Sample<br><u>FASTING (FBS)</u><br>Blood Sugar-F | FLOURIDE PLASMA<br><br>72.1 | <br><br>mg/dL | <br><br>70.00-110.00          |



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## HEMOGLOBIN A1c TEST

| Test               | Observed Value | Unit  | Biological Reference Interval  |
|--------------------|----------------|-------|--|
| <u>HbA1c</u>       | 5.84           | %     | > 8 : Action Suggested<br>7-8 : Good control<br>< 7 : Goal<br>6.2-7 : Near Normal Glycemia<br>< 6.2 : Non-diabetic Level |
| Mean Blood Glucose | 120.9          | mg/dL | 80.0 - 140.0   |

### Importance of HbA1c - Glycated Hb. in Diabetes Mellitus

- HbA1c, also known as Glycated Hemoglobin is the most important test for the assessment of long term blood glucose control (also called glycemic control)
- HbA1c reflects mean blood glucose concentration over past 6-8 weeks and provides amuch better indication of long term glycemic control than blood glucose determination
- HbA1c is formed by non-enzymatic reaction between glucose and Hb. , this reaction is irreversible and therefore remains unaffected by short term fluctuations in blood glucose levels.
- Long term complications of diabetes such as retinopathy-eye complications, nephropathy-kidney complications and neuropathy-nerve complications, are potentially serious and can lead to blindness, kidney failure etc.
- Glycemic control monitored by HbA1c measurement using HPLC method-(Gold Standard) is considered most important. (Ref. National Glycohemoglobin Standardization Program -NGSP).

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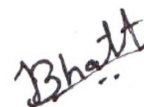


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Sample Type: **BLOOD & URINE**

### LIPID PROFILE

| Test                          | Observed Value      | Unit    | Biological Reference Interval  |
|-------------------------------|---------------------|---------|--|
| Sample                        | Fasting Blood Serum |         |  |
| Cholesterol                   | 135.0               | mg/dL   | <200 Desirable<br>200-29 Borderline<br>>240 High   |
| Triglyceride                  | 105.6               | mg/dL   | <150 Normal<br>150-199 Borderline<br>200-499 High<br>>=500 Very High                     |
| HDL Cholesterol               | 38.47               | L mg/dL | 40-60  |
| VLDL                          | 21.12               | mg/dL   | 0.00 - 30.00   |
| LDL Cholesterol               | 75.41               | mg/dL   | < 130 : Optimal<br>130 - 159 : Borderline High<br>160 - 189 : High<br>>= 190 : Very High |
| LDL Chol. / HDL Chol. Ratio   | 1.96                |         | 1.0 - 3.4  |
| Cholesterol / HDL Chol. Ratio | 3.5                 |         | 0 - 3.5  |
| Total Lipid                   | 474.4               | mg/dl   | 400.0 - 1000.0   |



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Age & Sex: **31 Year | Female**

Reported on: 12:26:09

Reference: **VELOCITY HOSPITAL**

Sample Type: **BLOOD & URINE**

## RENAL FUNCTION TEST

| Test          |        | Unit  |             |
|---------------|--------|-------|-------------|
| S. Creatinine | 0.7    | mg/dL | 0.5-1.30    |
| Bl. Urea      | 21.3   | mg/dL | 10.0 - 40.0 |
| BUN           | 10.0   | mg/dl | 6.0 - 22.0  |
| Uric Acid     | 2.47 L | mg/dL | 2.6 - 6.0   |

*Bhatt*

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## LIVER FUNCTION TEST

| Test                 | Observed Value | Unit  | Biological Reference Interval |
|----------------------|----------------|-------|-------------------------------|
| <b>BILIRUBIN</b>     |                |       |                               |
| Total Bilirubin      | 0.4            | mg/dL | 0.00 - 1.20                   |
| Direct Bilirubin     | 0.2            | mg/dL | 0.00 - 0.40                   |
| Indirect Bilirubin   | 0.20 L         | mg/dL | 0.30 - 1.00                   |
| SGPT(ALT)            | 14.34          | U/L   | 0.0 - 40.0                    |
| SGOT (AST)           | 16.17          | U/L   | 0.0 - 46.0                    |
| Alkaline Phosphatase | 66.3           | U/L   | 40-129                        |
| <b>PROTEINS</b>      |                |       |                               |
| Total Protein        | 6.8            | g/dL  | 6.0 - 8.0                     |
| Albumin              | 3.90           | g/dL  | 3.50 - 5.50                   |
| Globulin             | 2.9            | g/dL  | 2.5 - 4.0                     |
| A/G Ratio            | 1.3            |       |                               |

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## URINE ANALYSIS

| Test                           | Observed Value | Unit | Biological Reference Interval |
|--------------------------------|----------------|------|-------------------------------|
| Sample                         | Fresh Urine    |      |                               |
| <u>PHYSICAL EXAMINATION</u>    |                |      |                               |
| Quantity                       | 10.0           | mL   |                               |
| Colour                         | Pale-Yellow    |      |                               |
| Appearance                     | Clear          |      | Clear                         |
| pH                             | 7.0            |      |                               |
| Specific Gravity               | 1.010          |      |                               |
| Sediments                      | Absent         |      | Absent                        |
| <u>CHEMICAL EXAMINATION</u>    |                |      |                               |
| Protein (Albumin)              | Absent         |      | Absent                        |
| Sugar                          | Absent         |      | Absent                        |
| Bile Salts                     | Absent         |      | Absent                        |
| Bile Pigment                   | Absent         |      | Absent                        |
| Ketone                         | Absent         |      | Absent                        |
| Occult Blood                   | Absent         |      | Absent                        |
| Nitrite                        | Absent         |      | Absent                        |
| Leukocyte Esterase             | Absent         |      | Absent                        |
| Urobilinogen                   | Normal         |      | Normal                        |
| <u>MICROSCOPIC EXAMINATION</u> |                |      |                               |
| Pus Cells                      | 3-5            | /hpf | Absent                        |
| Red Blood Cells                | Absent         | /hpf | Absent                        |
| Epithelial Cells               | 3-5            | /hpf | Absent                        |
| Crystals                       | Absent         |      | Absent                        |
| Amorphous material             | Absent         |      | Absent                        |
| Casts                          | Absent         |      | Absent                        |
| Yeast                          | Absent         |      | Absent                        |
| Bacteria                       | Present (++)   |      | Absent                        |

--- End of Report ---

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