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|-------------------------------------|--------------------------------------|
| Name: SEJAL NITIN SOLANKI | Ward: OPD |
| Lab ID: 00000163 | Registration on: 23/12/2023 09:09:00 |
| Age & Sex: 43 Year Female | Reported on: 10:15:25 |
| Reference: VELOCITY HOSPITAL | Sample Type: BLOOD ~ URINE |

CBC ESR

| Test | Observed Value | Unit | Biological Reference Interval |
|----------------|----------------|----------|-------------------------------|
| Haemoglobin | 11.5 L | g/dL | 12.0 - 16.0 |
| Total RBC | 4.82 | mill./cm | 4.00 - 5.20 |
| Total WBC | 8550 | /cmm | 4000 - 11000 |
| Platelet Count | 286900 | /cmm | 150000 - 450000 |
| HCT | 37.6 | % | 36.0 - 48.0 |
| MCV | 78.0 L | fL | 80.0 - 100.0 |
| MCH | 23.9 L | pg | 27.0 - 32.0 |
| MCHC | 30.6 L | g/dL | 31.5 - 36.0 |

DIFFERENTIAL COUNT

| | | | |
|-------------|------|---|-----------|
| Neutrophils | 75 H | % | 40 - 70 |
| Lymphocytes | 22 | % | 20 - 40 |
| Eosinophils | 02 | % | 01-05 |
| Monocytes | 01 | % | 01-07 |
| Basophils | 00 | % | |
| Band Cells | 00 | % | 0.0 - 6.0 |

ABSOLUTE DIFFERENTIAL COUNT

| | | | |
|-------------|------|-------|-------------|
| Neutrophils | 6413 | /cumm | 2000 - 7000 |
| Lymphocytes | 1881 | /cumm | 1000 - 3000 |
| Eosinophils | 171 | /cumm | 20 - 500 |
| Monocytes | 86 L | /cumm | 200 - 1000 |
| Basophils | 0 | /cumm | 0 - 100 |

GLR / NLR

(Neutrophil/Lymphocyte Ratio)

3.4

MENTZER INDEX

16.2

| | | | |
|--------|------|----|-------------|
| RDW-CV | 13.8 | % | 11.1 - 14.1 |
| RDW-SD | 43.1 | fl | |
| MPV | 8.6 | fl | |
| PCT | 0.25 | % | |

Bhatt

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MD. PATHOLOGIST





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PDW 19.5 %

PERIPHERAL SMEAR EXAMINATION

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

Malarial Parasites Not Detected.

ESR
AFTER 1 HOUR 20 mm/hr 0.0 - 20.0

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BLOOD GROUP

| <u>Test</u> | <u>Observed Value</u> | <u>Unit</u> | <u>Biological Reference Interval</u> |
|--------------------|-----------------------|-------------|--------------------------------------|
| <u>Blood Group</u> | "O" | | |
| <u>Rh Factor</u> | POSITIVE | | |

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BLOOD GLUCOSE TEST

| <u>Test</u> | <u>Observed Value</u> | <u>Unit</u> | <u>Biological Reference Interval</u> |
|---|-------------------------|-------------|--------------------------------------|
| Sample <u>FASTING (FBS)</u> Blood Sugar-F | FLOURIDE PLASMA 79.9 | mg/dL | 70.00-110.00 |

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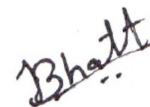
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD ~ URINE**

HEMOGLOBIN A1c TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|--------------------|----------------|-------|--|
| <u>HbA1c</u> | 6.1 | % | > 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.5-7 : Near Normal Glycemia < 6.5 : Non-diabetic Level |
| Mean Blood Glucose | 128.4 | 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 a much 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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LIPID PROFILE

| Test | Observed Value | Unit | Biological Reference Interval |
|-------------------------------|---------------------|-------|--|
| Sample | Fasting Blood Serum | | |
| Cholesterol | 169.8 | mg/dL | <200 Desirable 200-229 Borderline >240 High |
| Triglyceride | 148.3 | mg/dL | <150 Normal 150-199 Borderline 200-499 High >=500 Very High |
| HDL Cholesterol | 28.5 L | mg/dL | Male : 35-80 Female : 42-88 |
| VLDL | 29.66 | mg/dL | 0.00 - 30.00 |
| LDL Cholesterol | 111.64 | mg/dL | < 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High |
| LDL Chol. / HDL Chol. Ratio | 3.92 H | | 1.0 - 3.4 |
| Cholesterol / HDL Chol. Ratio | 6.0 H | | 0 - 3.5 |
| Total Lipid | 596.0 | mg/dl | 400.0 - 1000.0 |

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RENAL FUNCTION TEST

| Test | | Unit | |
|-----------------|------|-------|-------------|
| S. Creatinine | 0.74 | mg/dL | 0.5-1.30 |
| Bl. Urea | 21.0 | mg/dL | 10.0 - 40.0 |
| BUN | 9.8 | mg/dl | 6.0 - 22.0 |
| Uric Acid | 2.67 | mg/dL | 2.6 - 6.0 |
| PROTEINS | | | |
| Total Protein | 6.1 | g/dL | 6.0 - 8.0 |
| Albumin | 3.64 | g/dL | 3.50 - 5.50 |
| Globulin | 2.5 | g/dL | 2.5 - 4.0 |
| A/G Ratio | 1.5 | | |

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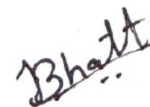
Age & Sex: **43 Year | Female**

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Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD ~ URINE**

LIVER FUNCTION TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|----------------------|----------------|-------|-------------------------------|
| BILIRUBIN | | | |
| Total Bilirubin | 0.5 | mg/dL | 0.00 - 1.20 |
| Direct Bilirubin | 0.2 | mg/dL | 0.00 - 0.40 |
| Indirect Bilirubin | 0.3 | mg/dL | 0.0 - 1.0 |
| SGPT(ALT) | 18.2 | U/L | 0.0 - 40.0 |
| SGOT (AST) | 20.2 | U/L | 0.0 - 46.0 |
| | | | |
| Alkaline Phosphatase | 228.0 | U/L | 64.0 - 306.0 |
| PROTEINS | | | |
| Total Protein | 6.1 | g/dL | 6.0 - 8.0 |
| Albumin | 3.64 | g/dL | 3.50 - 5.50 |
| Globulin | 2.5 | g/dL | 2.5 - 4.0 |
| A/G Ratio | 1.5 | | |

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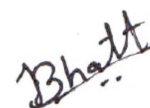
Reported on: 10:15:26

Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD ~ URINE**

URINE ANALYSIS

| Test | Observed Value | Unit | Biological Reference Interval |
|--------------------------------|----------------|------|-------------------------------|
| Sample | Fresh Urine | | |
| <u>PHYSICAL EXAMINATION</u> | | | |
| Quantity | 10.0 | mL | |
| Colour | Pale-Yellow | | |
| Appearance | Sl.Turbid | | Clear |
| pH | 5.0 | | |
| 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 | 2-3 | /hpf | Absent |
| Epithelial Cells | 5-7 | /hpf | Absent |
| Crystals | Absent | | |
| Amorphous material | Absent | | Absent |
| Casts | Absent | | Absent |
| Yeast | Absent | | Absent |
| Bacteria | Present (+) | | Absent |

--- End of Report ---

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