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|-------------------------------------|---------------------------------------|
| Name: SAHELI MISRA | Ward: OPD |
| Lab ID: 00000102 | Registration on: 11/03/2023 10:44:00 |
| Age & Sex: 34 Year Female | Reported on: 16:52:16 |
| Reference: VELOCITY HOSPITAL | Sample Type: BLOOD & URINE |

CBC ESR

| Test | Observed Value | Unit | Biological Reference Interval |
|---|----------------|----------|-------------------------------|
| Haemoglobin | 11.9 | g/dL | 11.5 - 16.0 |
| Total RBC | 4.79 | mill./cm | 4.00 - 5.20 |
| Total WBC | 5300 | /cmm | 4000 - 10000 |
| Platelet Count | 217000 | /cmm | 150000 - 450000 |
| HCT | 38.2 | % | 37.0 - 47.0 |
| MCV | 79.7 L | fL | 80.0 - 100.0 |
| MCH | 24.8 L | pg | 27.0 - 32.0 |
| MCHC | 31.2 L | g/dL | 31.5 - 36.0 |
| DIFFERENTIAL COUNT | | | |
| Neutrophils | 80 H | % | 40 - 70 |
| Lymphocytes | 15 L | % | 20 - 40 |
| Eosinophils | 02 | % | 02 - 05 |
| Monocytes | 03 | % | 01 - 07 |
| ABSOLUTE DIFFERENTIAL COUNT | | | |
| Neutrophils | 4240 | /cumm | 2000 - 7000 |
| Lymphocytes | 795 L | /cumm | 1000 - 3000 |
| Eosinophils | 106 | /cumm | 20 - 500 |
| Monocytes | 159 L | /cumm | 200 - 1000 |
| GLR / NLR (Neutrophil/Lymphocyte Ratio) | 5.3 | | |
| RDW-CV | 13.7 | % | 11.5 - 14.5 |
| MPV | 8.7 | fl | 7.00 - 11.00 |
| PCT | 0.19 | % | 0.10 - 0.30 |
| PDW | 17.1 | % | 10.0-18.00 |

PERIPHERAL SMEAR EXAMINATION

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

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 MD. PATHOLOGIST





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Malarial Parasites

NOT DETECTED.


ESR

AFTER 1 HOUR

12

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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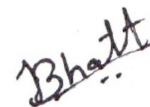




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BLOOD GLUCOSE TEST

| <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 75.4 | mg/dL | 70.00-110.00 |



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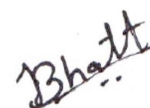
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD & URINE**

HEMOGLOBIN A1c TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|--------------------|----------------|-------|--|
| <u>HbA1c</u> | 5.5 | % | > 8 : Action Suggested 7-8 : Good Control < 7 : Goal 6-7 : Near Normal Glycemia < 6 : Non-diabetic Level |
| Mean Blood Glucose | 111.2 | 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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LIVER FUNCTION TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|-------------------------|----------------|-------|-------------------------------|
| <u>BILIRUBIN</u> | | | |
| Total Bilirubin | 0.3 | mg/dL | 0.0-1.20 |
| Direct Bilirubin | 0.2 | mg/dL | 0.00 - 0.40 |
| Indirect Bilirubin | 0.10 | mg/dL | |
| SGPT(ALT) | 13.6 | U/L | UP TO 45.00 |
| SGOT (AST) | 15.8 | U/L | 0.0 - 40.0 |
| GAMMA GT | 25 | IU/L | 7 TO 50 IU/L |
| <u>PROTEINS</u> | | | |
| Total Protein | 7.8 | g/dL | 6.0 - 8.0 |
| Albumin | 4.9 | g/dL | 3.50 - 5.50 |
| Globulin | 2.9 | g/dL | 2.5 - 4.0 |
| A/G Ratio | 1.7 | | |

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LIPID PROFILE

| Test | Observed Value | Unit | Biological Reference Interval |
|-------------------------------|---------------------|-------|--|
| Sample | Fasting Blood Serum | | |
| Cholesterol | 161.1 | mg/dL | 100 - 199 mg/dl |
| Triglyceride | 57.9 | mg/dL | 0 - 150 : Normal 150 - 199 : Borderline High 200 - 499 : High >= 500 : Very High |
| HDL Cholesterol | 41.5 | mg/dL | < 35 : Low (High Risk) >= 60 : High (Low Risk) |
| VLDL | 11.58 | mg/dL | 0.00 - 30.00 |
| LDL Cholesterol | 108.02 H | mg/dL | < 100 : Optimal 100 - 129 : Near/Above Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High |
| LDL Chol. / HDL Chol. Ratio | 2.60 | | 1.0 - 3.4 |
| Cholesterol / HDL Chol. Ratio | 3.88 H | | 0 - 3.5 |
| Total Lipid | 485.9 | mg/dl | 400.0 - 1000.0 |

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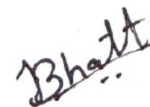
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RENAL FUNCTION TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|-----------------|----------------|-------|-------------------------------|
| S. Creatinine | 0.67 | mg/dL | 0.30 - 1.30 |
| Bl. Urea | 20.0 | mg/dL | 10.0 - 40.0 |
| BUN | 9.3 | mg/dl | 6.0 - 22.0 |
| Uric Acid | 4.2 | mg/dL | 2.4 - 6.0 |
| PROTEINS | | | |
| Total Protein | 7.8 | g/dL | 6.0 - 8.0 |
| Albumin | 4.9 | g/dL | 3.50 - 5.50 |
| Globulin | 2.9 | g/dL | 2.5 - 4.0 |
| A/G Ratio | 1.7 | | |

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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 | | |
| pH | 6.0 | | |
| 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 | Occasional | /hpf | Absent |
| Red Blood Cells | Absent | /hpf | Absent |
| Epithelial Cells | Absent | /hpf | Absent |
| Crystals | Absent | | Absent |
| Amorphous material | Absent | | Absent |
| Casts | Absent | | Absent |
| Yeast | Absent | | Absent |
| Bacteria | Absent | | Absent |

--- End of Report ---

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