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|-------------------------------------|--------------------------------------|
| Name: AMIT KUMAR | Ward: OPD |
| Lab ID: 00000165 | Registration on: 23/12/2023 09:11:00 |
| Age & Sex: 41 Year Male | Reported on: 10:13:40 |
| Reference: VELOCITY HOSPITAL | Sample Type: BLOOD ~ URINE |

CBC ESR

| Test | Observed Value | Unit | Biological Reference Interval |
|---|----------------|----------|-------------------------------|
| Haemoglobin | 13.8 | g/dL | 13.0 - 17.0 |
| Total RBC | 5.22 H | mill./cm | 4.00 - 5.20 |
| Total WBC | 5930 | /cmm | 4000 - 11000 |
| Platelet Count | 155000 | /cmm | 150000 - 450000 |
| HCT | 44.3 | % | 36.0 - 48.0 |
| MCV | 84.9 | fL | 80.0 - 100.0 |
| MCH | 26.4 L | pg | 27.0 - 32.0 |
| MCHC | 31.2 L | g/dL | 31.5 - 36.0 |
| DIFFERENTIAL COUNT | | | |
| Neutrophils | 68 | % | 40 - 70 |
| Lymphocytes | 27 | % | 20 - 40 |
| Eosinophils | 02 | % | 01-05 |
| Monocytes | 03 | % | 01-07 |
| Basophils | 00 | % | |
| Band Cells | 00 | % | 0.0 - 6.0 |
| ABSOLUTE DIFFERENTIAL COUNT | | | |
| Neutrophils | 4032 | /cumm | 2000 - 7000 |
| Lymphocytes | 1601 | /cumm | 1000 - 3000 |
| Eosinophils | 119 | /cumm | 20 - 500 |
| Monocytes | 178 L | /cumm | 200 - 1000 |
| Basophils | 0 | /cumm | 0 - 100 |
| GLR / NLR (Neutrophil/Lymphocyte Ratio) | 2.3 | | |
| MENTZER INDEX | | | |
| RDW-CV | 13.0 | % | 11.1 - 14.1 |
| RDW-SD | 44.1 | fL | |
| MPV | 13.3 | fL | |
| PCT | 0.18 | % | |

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MD. PATHOLOGIST





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

PDW 18.5 %

PERIPHERAL SMEAR EXAMINATION

RBC Morphology Normochromic and normocytic.
WBC Morphology Appear normal, Immature cells are not seen.
Platelets in Smear Adequate.

Malarial Parasites Not Detected.

ESR
AFTER 1 HOUR 30 H mm/hr 0.0 - 15.0

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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> | "A" | | |
| <u>Rh Factor</u> | POSITIVE | | |

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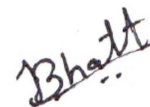




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BLOOD GLUCOSE TEST

| <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 81.2 | mg/dL | 70.00-110.00 |



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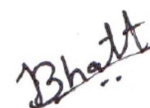
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD ~ URINE**

HEMOGLOBIN A1c TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|--------------------|----------------|-------|--|
| <u>HbA1c</u> | 4.93 | % | > 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.5-7 : Near Normal Glycemia < 6.5 : Non-diabetic Level |
| Mean Blood Glucose | 94.8 | mg/dL | 70.0 - 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 | 182.4 | mg/dL | <200 Desirable 200-229 Borderline >240 High |
| Triglyceride | 120.1 | mg/dL | <150 Normal 150-199 Borderline 200-499 High >=500 Very High |
| HDL Cholesterol | 43.5 | mg/dL | Male : 35-80 Female : 42-88 |
| VLDL | 24.02 | mg/dL | 0.00 - 30.00 |
| LDL Cholesterol | 114.88 | mg/dL | < 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High |
| LDL Chol. / HDL Chol. Ratio | 2.64 | | 1.0 - 3.4 |
| Cholesterol / HDL Chol. Ratio | 4.2 H | | 0 - 3.5 |
| Total Lipid | 596.4 | mg/dl | 400.0 - 1000.0 |

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RENAL FUNCTION TEST

| Test | | Unit | |
|---------------|------|-------|-------------|
| S. Creatinine | 1.05 | mg/dL | 0.5-1.30 |
| Bl. Urea | 20.3 | mg/dL | 10.0 - 40.0 |
| BUN | 9.5 | mg/dl | 6.0 - 22.0 |
| Uric Acid | 6.84 | mg/dL | 3.5 - 7.2 |

PROTEINS

| | | | |
|---------------|------|------|-------------|
| Total Protein | 6.2 | g/dL | 6.0 - 8.0 |
| Albumin | 3.74 | g/dL | 3.50 - 5.50 |
| Globulin | 2.5 | g/dL | 2.0 - 4.0 |
| A/G Ratio | 1.5 | | |

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

LIVER FUNCTION TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|----------------------|----------------|-------|-------------------------------|
| BILIRUBIN | | | |
| Total Bilirubin | 0.6 | mg/dL | 0.00 - 1.20 |
| Direct Bilirubin | 0.2 | mg/dL | 0.00 - 0.40 |
| Indirect Bilirubin | 0.4 | mg/dL | 0.0 - 1.0 |
| SGPT(ALT) | 21.6 | U/L | 0.0 - 40.0 |
| SGOT (AST) | 23.4 | U/L | 0.0 - 46.0 |
| | | | |
| Alkaline Phosphatase | 205.8 | U/L | 40.0 - 306.0 |
| PROTEINS | | | |
| Total Protein | 6.2 | g/dL | 6.0 - 8.0 |
| Albumin | 3.74 | g/dL | 3.50 - 5.50 |
| Globulin | 2.5 | g/dL | 2.0 - 4.0 |
| A/G Ratio | 1.5 | | |

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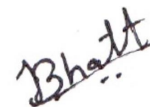
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URINE ANALYSIS

| 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 | 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 | Occasional | /hpf | Absent |
| Red Blood Cells | Absent | /hpf | Absent |
| Epithelial Cells | 1-2 | /hpf | Absent |
| Crystals | Absent | | |
| Amorphous material | Absent | | Absent |
| Casts | Absent | | Absent |
| Yeast | Absent | | Absent |
| Bacteria | Absent | | Absent |

--- End of Report ---

DR. TEJAL BHATT
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