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|-------------------------------------|---------------------------------------|
| Name: JAI PRAKASH | Ward: OPD |
| Lab ID: 00000162 | Registration on: 23/12/2023 09:04:00 |
| Age & Sex: 38 Year Male | Reported on: 13:11:44 |
| Reference: VELOCITY HOSPITAL | Sample Type: BLOOD & URINE |

CBC ESR

| Test | Observed Value | Unit | Biological Reference Interval |
|---|----------------|----------|-------------------------------|
| Haemoglobin | 15.2 | g/dL | 13.0 - 17.0 |
| Total RBC | 5.53 H | mill./cm | 4.00 - 5.20 |
| Total WBC | 7220 | /cmm | 4000 - 11000 |
| Platelet Count | 192500 | /cmm | 150000 - 450000 |
| HCT | 48.2 H | % | 36.0 - 48.0 |
| MCV | 87.2 | fL | 80.0 - 100.0 |
| MCH | 27.5 | pg | 27.0 - 32.0 |
| MCHC | 31.5 | g/dL | 31.5 - 36.0 |
| <u>DIFFERENTIAL COUNT</u> | | | |
| Neutrophils | 66 | % | 40 - 70 |
| Lymphocytes | 30 | % | 20 - 40 |
| Eosinophils | 02 | % | 01-05 |
| Monocytes | 02 | % | 01-07 |
| Basophils | 00 | % | |
| Band Cells | 00 | % | 0.0 - 6.0 |
| <u>ABSOLUTE DIFFERENTIAL COUNT</u> | | | |
| Neutrophils | 4765 | /cumm | 2000 - 7000 |
| Lymphocytes | 2166 | /cumm | 1000 - 3000 |
| Eosinophils | 144 | /cumm | |
| Monocytes | 144 | /cumm | |
| Basophils | 0 | /cumm | 0 - 100 |
| <u>GLR / NLR</u> (Neutrophil/Lymphocyte Ratio) | 2.2 | | |
| <u>MENTZER INDEX</u> | | | |
| RDW-CV | 12.9 | % | 11.1 - 14.1 |
| RDW-SD | 45.0 | fL | |
| MPV | 11.0 | fL | |
| PCT | 0.21 | % | |

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PDW 18.7 %

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 19 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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BLOOD GLUCOSE TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|---|-------------------------|-------|-------------------------------|
| Sample <u>FASTING (FBS)</u> Blood Sugar-F | FLOURIDE PLASMA 80.8 | mg/dL | 70.00-110.00 |

Bhatt

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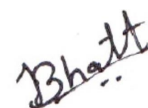
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD & URINE**

HEMOGLOBIN A1c TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|--------------------|----------------|-------|--|
| <u>HbA1c</u> | 4.75 | % | > 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level |
| Mean Blood Glucose | 89.6 | 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 | 196.2 | mg/dL | <200 Desirable 200-229 Borderline >240 High |
| Triglyceride | 155.7 H | mg/dL | <150 Normal 150-199 Borderline 200-499 High ≥500 Very High |
| HDL Cholesterol | 30.2 L | mg/dL | Male : 35-80 Female : 42-88 |
| VLDL | 31.14 H | mg/dL | 0.00 - 30.00 |
| LDL Cholesterol | 134.86 H | mg/dL | < 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High ≥ 190 : Very High |
| LDL Chol. / HDL Chol. Ratio | 4.47 H | | 1.0 - 3.4 |
| Cholesterol / HDL Chol. Ratio | 6.5 H | | 0 - 3.5 |
| Total Lipid | 663.4 | mg/dl | 400.0 - 1000.0 |

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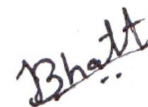
Age & Sex: **38 Year | Male**

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RENAL FUNCTION TEST

| Test | | Unit | |
|-----------------|------|-------|-------------|
| S. Creatinine | 1.09 | mg/dL | 0.5-1.30 |
| Bl. Urea | 22.0 | mg/dL | 10.0 - 40.0 |
| BUN | 10.3 | mg/dl | 6.0 - 22.0 |
| Uric Acid | 4.63 | mg/dL | 3.5 - 7.2 |
| PROTEINS | | | |
| Total Protein | 6.6 | g/dL | 6.0 - 8.0 |
| Albumin | 3.94 | g/dL | 3.50 - 5.50 |
| Globulin | 2.7 | g/dL | 2.0 - 4.0 |
| A/G Ratio | 1.5 | | |

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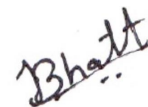
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LIVER FUNCTION TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|----------------------|----------------|-------|-------------------------------|
| BILIRUBIN | | | |
| Total Bilirubin | 0.7 | mg/dL | 0.00 - 1.20 |
| Direct Bilirubin | 0.2 | mg/dL | 0.00 - 0.40 |
| Indirect Bilirubin | 0.5 | mg/dL | 0.0 - 1.0 |
| SGPT(ALT) | 62.2 H | U/L | 0.0 - 40.0 |
| SGOT (AST) | 37.5 | U/L | 0.0 - 46.0 |
| Alkaline Phosphatase | 298.0 | U/L | 80.0 - 306.0 |
| PROTEINS | | | |
| Total Protein | 6.6 | g/dL | 6.0 - 8.0 |
| Albumin | 3.94 | g/dL | 3.50 - 5.50 |
| Globulin | 2.7 | g/dL | 2.0 - 4.0 |
| A/G Ratio | 1.5 | | |

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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 | 1.015 | | |
| 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 | | Absent |
| Amorphous material | Absent | | Absent |
| Casts | Absent | | Absent |
| Yeast | Absent | | Absent |
| Bacteria | Absent | | Absent |

--- End of Report ---

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