# SPECTRA DIAGNOSTIC
LABORATORY SERVICE PROVIDER

| | | | |
|---|---|---|---|
| Name: | **NISHTHA SUSHIL SURYAVANSHI** | Ward: | OPD |
| Lab ID | **00000002** | Registration on: | 01/12/2023 08:58:00 |
| Age & Sex: | **33 Year \| Female** | Reported on: | 11:40:36 |
| Reference: | **VELOCITY HOSPITAL** | Sample Type: | BLOOD & URINE |

## CBC ESR

| Test | Observed Value | | Unit | Biological Reference Interval |
|---|---|---|---|---|
| Haemoglobin | 11.42 | L | g/dL | 12.0 - 16.0 |
| Total RBC | 5.41 | H | mill./cm | 4.00 - 5.20 |
| Total WBC | 8080 | | /cmm | 4000 - 11000 |
| Platelet Count | 348300 | | /cmm | 150000 - 450000 |
| HCT | 37.0 | | % | 36.0 - 48.0 |
| MCV | 68.4 | L | fL | 80.0 - 100.0 |
| MCH | 21.1 | L | pg | 27.0 - 32.0 |
| MCHC | 30.9 | L | g/dL | 31.5 - 36.0 |
| DIFFERENTIAL COUNT | | | | |
| Neutrophils | 69 | | % | 40 - 70 |
| Lymphocytes | 26 | | % | 20 - 40 |
| Eosinophils | 02 | | % | 01-05 |
| Monocytes | 03 | | % | 01-07 |
| Basophils | 00 | | % | 00 - 02 |
| Band Cells | 00 | | % | 0.0 - 6.0 |
| ABSOLUTE DIFFERNTIAL COUNT | | | | |
| Neutrophils | 5575 | | /cumm | 2000 - 7000 |
| Lymphocytes | 2101 | | /cumm | 1000 - 3000 |
| Eosinophils | 162 | | /cumm | 20 - 500 |
| Monocytes | 242 | | /cumm | |
| Basophils | 00 | | /cumm | 0 - 100 |
| GLR / NLR (Neutrophil/Lymphocyte Ratio) | 2.7 | | | |
| MENTZER INDEX | 12.6 | | | |
| RDW-CV | 15.1 | H | % | 11.1 - 14.1 |
| RDW-SD | 41.3 | | fl | |
| MPV | 7.2 | | fl | |
| PCT | 0.25 | | % | |

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| Age & Sex: | **33 Year \| Female** | Reported on: | 11:40:37 |
| Reference: | **VELOCITY HOSPITAL** | Sample Type: | BLOOD & URINE |

| | | | |
|---|---|---|---|
| PDW | 15.4 | % | |
| P-LCR | 23.3 | % | |

PERIPHERAL SMEAR EXAMINATION

| | |
|---|---|
| RBC Morphology | Hypochromia (+), Microcytosis (+), Anisocytosis (+),Target cell (few), Poikilocytosis (+) |
| WBC Morphology | Appear normal,Immature cells are not seen . |
| Platelets in Smear | Adequate. |
| Malarial Parasites | Not Detected. |
| Note | Hb electrophoresis is advised to rule out thalassemia as Mentzer index is <13. ( low HB, high RBC count and low MCV) . |

ESR

| | | | |
|---|---|---|---|
| AFTER 1 HOUR | 15 | mm/hr | 0.0 - 20.0 |

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## BLOOD GROUP

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

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## BLOOD GLUCOSE TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|---|---|---|---|
| Sample | FLOURIDE PLASMA | | |
| FASTING (FBS) | | | |
| Blood Sugar-F | 71.21 | mg/dL | 70.00-110.00 |

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## HEMOGLOBIN A1c TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|---|---|---|---|
| HbA1c | 6.2 | % | > 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 | 131.2 | 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 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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## LIPID PROFILE

| Test | Observed Value | | Unit | Biological Reference Interval |
|---|---|---|---|---|
| Sample | Fasting Blood Serum | | | |
| Cholesterol | 173.9 | | mg/dL | <200 Desirable<br>200-229 Borderline<br>>240 High |
| Triglyceride | 60.7 | | mg/dL | <150 Normal<br>150-199 Borderline<br>200-499 High<br>>=500 Very High |
| HDL Cholesterol | 31.56 | L | mg/dL | Male : 35-80<br>Female : 42-88 |
| VLDL | 12.14 | | mg/dL | 0.00 - 30.00 |
| LDL Cholesterol | 130.20 | H | mg/dL | < 130 : Optimal<br>130 - 159 : Borderline High<br>160 - 189 : High<br>>= 190 : Very High |
| Cholesterol / HDL Chol. Ratio | 4.13 | H | | 0 - 3.5 |
| Total Lipid | 5.5 | L | mg/dl | 400.0 - 1000.0 |
| NOTE | 517.8 | | | |

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## RENAL FUNCTION TEST

| Test | | Unit | |
|---|---|---|---|
| S. Creatinine | 0.87 | 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 | 3.74 | mg/dL | 2.6 - 6.0 |
| PROTEINS | | | |
| Total Protein | 6.9 | g/dL | 6.0 - 8.0 |
| Albumin | 3.65 | g/dL | 3.50 - 5.50 |
| Globulin | 3.3 | g/dL | 2.5 - 4.0 |
| A/G Ratio | 1.1 | | |

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## LIVER FUNCTION TEST

| Test | Observed Value | Unit | Biological Reference Interval |
|---|---|---|---|
| BILIRUBIN | | | |
| Total Bilirubin | 0.4 | mg/dL | 0.00 - 1.20 |
| Direct Bilirubin | 0.2 | mg/dL | 0.00 - 0.40 |
| Indirect Bilirubin | 0.20 | mg/dL | 0.00 - 1.00 |
| SGPT(ALT) | 11.39 | U/L | 0.0 - 40.0 |
| SGOT (AST) | 13.29 | U/L | 0.0 - 46.0 |
| Alkaline Phosphatase | 189.0 | U/L | 64.0 - 306.0 |
| PROTEINS | | | |
| Total Protein | 6.9 | g/dL | 6.0 - 8.0 |
| Albumin | 3.65 | g/dL | 3.50 - 5.50 |
| Globulin | 3.3 | g/dL | 2.5 - 4.0 |
| A/G Ratio | 1.1 | | |

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## URINE ANALYSIS

| Test | Observed Value | Unit | Biological Reference Interval |
|---|---|---|---|
| Sample | Fresh Urine | | |
| PHYSICAL EXAMINATION | | | |
| Quantity | 10.0 | mL | |
| Colour | Pale-Yellow | | |
| Appearance | Clear | | Clear |
| pH | 6.0 | | |
| Specific Gravity | 1.015 | | |
| Sediments | Absent | | Absent |
| CHEMICAL EXAMINATION | | | |
| Protein (Albumin) | Absent | | Absent |
| Sugar | Absent | | Absent |
| Bile Salts | Absent | | Absent |
| Bile Pigment | Absent | | Absent |
| Ketone | Absent | | Absent |
| Occult Blood | Trace | | Absent |
| Nitrite | Absent | | Absent |
| Leukocyte Esterase | Absent | | Absent |
| Urobilinogen | Normal | | Normal |
| MICROSCOPIC EXAMINATION | | | |
| Pus Cells | 12-15 | /hpf | Absent |
| Red Blood Cells | 15-18 | /hpf | Absent |
| Epithelial Cells | 4-5 | /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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