



|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Name: <b>HITESH KANTILAL PARMAR</b> | Ward: OPD                             |
| Lab ID: <b>00000310</b>             | Registration on: 26/08/2023 07:56:00  |
| Age & Sex: <b>36 Year   Male</b>    | Reported on: 10:33:21                 |
| Reference: <b>VELOCITY HOSPITAL</b> | Sample Type: <b>BLOOD &amp; URINE</b> |

## CBC ESR

| Test  | Observed Value | Unit     | Biological Reference Interval |
|---|----------------|----------|-------------------------------|
| Haemoglobin                                       | 14.0           | g/dL     | 13.5 - 17.5                   |
| Total RBC   | <b>4.22</b> L  | mill./cm | 4.50 - 5.90                   |
| Total WBC   | 5490           | /cmm     | 4000 - 11000                  |
| Platelet Count                                    | 252900         | /cmm     | 150000 - 450000               |
| HCT   | 42.0           | %        | 36.0 - 48.0                   |
| MCV   | 99.5           | fL       | 80.0 - 100.0                  |
| MCH   | <b>33.2</b> H  | pg       | 27.0 - 32.0                   |
| MCHC  | 33.3           | g/dL     | 31.5 - 36.0                   |
| <b>DIFFERENTIAL COUNT</b>                         |                |          |                               |
| Neutrophils                                       | 58             | %        | 40 - 70                       |
| Lymphocytes                                       | 38             | %        | 20 - 40                       |
| Eosinophils                                       | 02             | %        | 02-05                         |
| Monocytes   | 02             | %        | 01-07                         |
| Basophils   | 00             | %        | 00 - 02                       |
| Band Cells  | 00             | %        | 0.0 - 6.0                     |
| <b>ABSOLUTE DIFFERENTIAL COUNT</b>                |                |          |                               |
| Neutrophils                                       | 3184           | /cumm    | 2000 - 7000                   |
| Lymphocytes                                       | 2086           | /cumm    | 1000 - 3000                   |
| Eosinophils                                       | 110            | /cumm    | 20 - 500                      |
| Monocytes   | <b>110</b> L   | /cumm    | 200 - 1000                    |
| Basophils   | 0              | /cumm    | 0 - 100                       |
| <b>GLR / NLR</b><br>(Neutrophil/Lymphocyte Ratio) | <b>1.5</b>     |          |                               |
| <b>MENTZER INDEX</b>                              |                |          |                               |
| <b>MENTZER INDEX</b>                              | <b>23.6</b>    |          |                               |
| RDW-CV  | 14.0           | %        | 11.1 - 14.1                   |
| RDW-SD  | 55.7           | fl       |                               |
| MPV   | 7.3            | fl       |                               |
| PCT   | <b>0.18</b>    | %        |                               |

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PDW 16.3 %

**PERIPHERAL SM EAR EXAMINATION**

RBC Morphology  
WBC Morphology  
Platelets in Smear

**Normochromic and normocytic.**  
**Appear normal, Immature cells are not seen .**  
Adequate.

**Malarial Parasites**

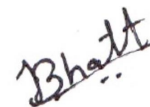
Not Detected.

**ESR**

AFTER 1 HOUR

**18 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> |
|--------------------|-----------------------|-------------|--------------------------------------|
| <b>Blood Group</b> | "AB"                  |             |                                      |
| Rh Factor          | POSITIVE              |             |                                      |

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## BLOOD GLUCOSE TEST

| <u>Test</u>                 | <u>Observed Value</u> | <u>Unit</u> | <u>Biological Reference Interval</u> |
|-----------------------------|-----------------------|-------------|--------------------------------------|
| Sample                      | FLOURIDE PLASMA       |             |                                      |
| <b><u>FASTING (FBS)</u></b> |                       |             |                                      |
| Blood Sugar-F               | 99.3                  | mg/dL       | 70.00-110.00                         |

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Age & Sex: **36 Year | Male**

Reported on: 10:33:21

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

## HEMOGLOBIN A1c TEST

| Test               | Observed Value | Unit  | Biological Reference Interval  |
|--------------------|----------------|-------|--|
| <b>HbA1c</b>       | 5.0            | %     | > 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 | 96.8           | 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                   | 194.7               | mg/dL | <200 Desirable<br>200-229 Borderline<br>>240 High                                       |
| Triglyceride                  | <b>175.9 H</b>      | mg/dL | <150 Normal<br>150-199 Borderline<br>200-499 High<br>≥500 Very High                     |
| HDL Cholesterol               | 40.3                | mg/dL | Male : 35-80<br>Female : 42-88  |
| VLDL                          | <b>35.18 H</b>      | mg/dL | 0.00 - 30.00  |
| LDL Cholesterol               | 119.22              | mg/dL | < 130 : Optimal<br>130 - 159 : Borderline High<br>160 - 189 : High<br>≥ 190 : Very High |
| LDL Chol. / HDL Chol. Ratio   | 2.96                |       | 1.0 - 3.4   |
| Cholesterol / HDL Chol. Ratio | <b>4.8 H</b>        |       | 0 - 3.5   |
| Total Lipid                   | 680.2               | mg/dl | 400.0 - 1000.0  |

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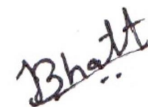
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD & URINE**

## RENAL FUNCTION TEST

| Test          |      | Unit  |             |
|---------------|------|-------|-------------|
| S. Creatinine | 0.95 | 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     | 6.31 | mg/dL | 3.5 - 7.2   |

### PROTEINS

|               |      |      |             |
|---------------|------|------|-------------|
| Total Protein | 7.0  | g/dL | 6.0 - 8.0   |
| Albumin       | 4.01 | g/dL | 3.50 - 5.50 |
| Globulin      | 3.0  | g/dL | 2.0 - 4.0   |
| A/G Ratio     | 1.3  |      |             |



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## LIVER FUNCTION TEST

| Test                    | Observed Value | Unit  | Biological Reference Interval |
|-------------------------|----------------|-------|-------------------------------|
| <b><u>BILIRUBIN</u></b> |                |       |                               |
| Total Bilirubin         | 0.5            | mg/dL | 0.00 - 1.20                   |
| Direct Bilirubin        | 0.2            | mg/dL | 0.00 - 0.40                   |
| Indirect Bilirubin      | 0.30           | mg/dL | 0.00 - 1.00                   |
| SGPT(ALT)               | 16.5           | U/L   | 0.0 - 40.0                    |
| SGOT (AST)              | 17.3           | U/L   | 0.0 - 46.0                    |
| <br>                    |                |       |                               |
| Alkaline Phosphatase    | 218.0          | U/L   | 80.0 - 306.0                  |
| <br>                    |                |       |                               |
| <b><u>PROTEINS</u></b>  |                |       |                               |
| Total Protein           | 7.0            | g/dL  | 6.0 - 8.0                     |
| Albumin                 | 4.01           | g/dL  | 3.50 - 5.50                   |
| Globulin                | 3.0            | g/dL  | 2.0 - 4.0                     |
| A/G Ratio               | 1.3            |       |                               |

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Ward: **OPD**  
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Reported on: **10:33:22**  
Sample Type: **BLOOD & URINE**

## URINE ANALYSIS

| <u>Test</u>                           | <u>Observed Value</u> | <u>Unit</u> | <u>Biological Reference Interval</u> |
|---------------------------------------|-----------------------|-------------|--------------------------------------|
| Sample                                | Fresh Urine           |             |                                      |
| <b><u>PHYSICAL EXAMINATION</u></b>    |                       |             |                                      |
| Quantity                              | 10.0                  | mL          |                                      |
| Colour                                | Pale-Yellow           |             |                                      |
| Appearance                            | <b>Clear</b>          |             | Clear                                |
| pH                                    | 6.0                   |             |                                      |
| Specific Gravity                      | 1.010                 |             |                                      |
| Sediments                             | Absent                |             | Absent                               |
| <b><u>CHEMICAL EXAMINATION</u></b>    |                       |             |                                      |
| 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                               |
| <b><u>MICROSCOPIC EXAMINATION</u></b> |                       |             |                                      |
| Pus Cells                             | <b>Occasional</b>     | /hpf        | Absent                               |
| Red Blood Cells                       | Absent                | /hpf        | Absent                               |
| Epithelial Cells                      | <b>2-3</b>            | /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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Passport No :

LABORATORY TEST REPORT



| Patient Information              | Sample Information                  | Client/Location Information                      |
|----------------------------------|-------------------------------------|--|
| Name : Mr Hitesh Kantilal Parmar | Lab Id : 082315301980               | Client Name : Spectra Diagnostics Lab@Adajan     |
| Sex/Age : Male / 36 Y            | Registration on : 26-Aug-2023 11:05 | Location :                                       |
| Ref. Id :                        | Collected at : non SAWPL            | Approved on : 26-Aug-2023 12:10 Status : Final   |
| Ref. By :                        | Collected on : 26-Aug-2023 11:05    | Printed On : 26-Aug-2023 12:20                   |
|                                  | Sample Type : Serum                 | Process At : 153. Lab SAWPL Gujarat Surat Adajan |

Thyroid Function Test

| Test  | Result | Unit       | Biological Ref. Interval |
|---|--------|------------|--------------------------|
| T3 - Triiodothyronine<br><i>Chemiluminescence</i>             | 0.88   | ng/mL      | 0.58 - 1.59              |
| T4 - Thyroxine<br><i>Chemiluminescence</i>                    | 7.11   | micro g/dL | 4.87 - 11.72             |
| TSH - Thyroid Stimulating Hormone<br><i>Chemiluminescence</i> | 2.1838 | microIU/mL | 0.35 - 4.94              |

Remarks: Collected Sample Received

Interpretation

| TSH                       | T3/FT3                 | T4/FT4                 | Suggested Interpretation for the Thyroid Function Tests Pattern   |
|---------------------------|------------------------|------------------------|---|
| Within Range              | Decreased              | Within Range           | Isolated low T3 often seen in elderly & associated Non-Thyroid illness. In elderly the drop in T3 level can be up to 25%  |
| Raised                    | Within Range           | Within Range           | - Isolated High TSH Especially in the range of 4.7 to 15 mIU/ml is commonly associated with physiological & Biological TSH Variability.<br>- Subclinical Autoimmune Hypothyroidism.<br>- Intermediate T4 therapy for hypothyroidism.<br>- Recovery phase after Non-Thyroidal illness. |
| Raised                    | Decreased              | Decreased              | - Chronic Autoimmune Thyroiditis.<br>- Post thyroidectomy, post radioiodine.<br>- Hypothyroid phase of transient thyroiditis.   |
| Raised or Within Range    | Raised                 | Raised or Within Range | - Interfering antibodies to thyroid hormones (anti-TPO antibodies)<br>- Intermediate T4 therapy of T4 overdose.<br>- Drug Interference-Amiodarone, Heparin, Beta blocker, steroids, anti-epileptics.  |
| Decreased                 | Raised or Within Range | Raised or Within Range | - Isolated Low TSH – Especially in the range of 0.1 to 0.4 often seen in elderly & associated with Non-Thyroidal illness.<br>- Subclinical Hypothyroidism.<br>- Thyroxine ingestion.  |
| Decreased                 | Decreased              | Decreased              | - Central Hypothyroidism.<br>- Non-Thyroidal illness.<br>- Recent treatment for Hypothyroidism (TSH remains suppressed)   |
| Decreased                 | Raised                 | Raised                 | - Primary Hyperthyroidism (Graves' disease), Multinodular goitre Toxic nodule.<br>- Transient thyroiditis: postpartum, Silent(lymphocytic), Post viral (granulomatous, subacute, DeQuervain'a) Gestational thyrotoxicosis hyperemesis gravidarum.                                     |
| Decreased or Within Range | Raised                 | Within Range           | - T3 toxicosis.<br>- Non-Thyroidal illness.   |

----- End Of Report -----

This is an Electronically Authenticated Report.

Dr. Bharat D. Tandel  
M.D. Pathology