# SUBURBAN DIAGNOSTICS
### PRECISE TESTING · HEALTHIER LIVING

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REPORT

| | | | |
|---|---|---|---|
| **CID** | : 2317418141 | | |
| **Name** | : MR.RAMLAL CHOUDHARY | | |
| **Age / Gender** | : 31 Years / Male | | |
| **Consulting Dr.** | : - | **Collected** | : 23-Jun-2023 / 10:15 |
| **Reg. Location** | : Malad West (Main Centre) | **Reported** | : 23-Jun-2023 / 12:40 |

## AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

### CBC (Complete Blood Count), Blood

| PARAMETER | RESULTS | BIOLOGICAL REF RANGE | METHOD |
|---|---|---|---|
| **RBC PARAMETERS** | | | |
| Haemoglobin | 14.6 | 13.0-17.0 g/dL | Spectrophotometric |
| RBC | 5.28 | 4.5-5.5 mil/cmm | Elect. Impedance |
| PCV | 44.8 | 40-50 % | Calculated |
| MCV | 84.7 | 80-100 fl | Measured |
| MCH | 27.7 | 27-32 pg | Calculated |
| MCHC | 32.7 | 31.5-34.5 g/dL | Calculated |
| RDW | 13.4 | 11.6-14.0 % | Calculated |
| **WBC PARAMETERS** | | | |
| WBC Total Count | 7860 | 4000-10000 /cmm | Elect. Impedance |
| **WBC DIFFERENTIAL AND ABSOLUTE COUNTS** | | | |
| Lymphocytes | **49.6** | 20-40 % | |
| Absolute Lymphocytes | **3898.6** | 1000-3000 /cmm | Calculated |
| Monocytes | 10.0 | 2-10 % | |
| Absolute Monocytes | 786.0 | 200-1000 /cmm | Calculated |
| Neutrophils | **30.6** | 40-80 % | |
| Absolute Neutrophils | 2405.2 | 2000-7000 /cmm | Calculated |
| Eosinophils | **8.9** | 1-6 % | |
| Absolute Eosinophils | **699.5** | 20-500 /cmm | Calculated |
| Basophils | 0.9 | 0.1-2 % | |
| Absolute Basophils | 70.7 | 20-100 /cmm | Calculated |
| Immature Leukocytes | - | | |

WBC Differential Count by Absorbance & Impedance method/Microscopy.

| PARAMETER | RESULTS | BIOLOGICAL REF RANGE | METHOD |
|---|---|---|---|
| **PLATELET PARAMETERS** | | | |
| Platelet Count | 334000 | 150000-400000 /cmm | Elect. Impedance |
| MPV | 8.1 | 6-11 fl | Measured |
| PDW | 13.0 | 11-18 % | Calculated |
| **RBC MORPHOLOGY** | | | |
| Hypochromia | - | | |
| Microcytosis | - | | |

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| Reg. Location | : Malad West (Main Centre) | Reported | : 23-Jun-2023 / 13:36 |

| | |
|---|---|
| Macrocytosis | - |
| Anisocytosis | - |
| Poikilocytosis | - |
| Polychromasia | - |
| Target Cells | - |
| Basophilic Stippling | - |
| Normoblasts | - |
| Others | Normocytic,Normochromic |
| WBC MORPHOLOGY | - |
| PLATELET MORPHOLOGY | - |
| COMMENT | Eosinophilia |

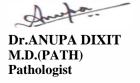**Specimen:** EDTA Whole Blood

| | | | |
|---|---|---|---|
| ESR, EDTA WB-ESR | 5 | 2-15 mm at 1 hr. | Sedimentation |

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD CPL, Andheri West

*** End Of Report ***

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MC-2111

**Dr.ANUPA DIXIT**
**M.D.(PATH)**
**Pathologist**

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## AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

| PARAMETER | RESULTS | BIOLOGICAL REF RANGE | METHOD |
|---|---|---|---|
| GLUCOSE (SUGAR) FASTING, Fluoride Plasma | 85.2 | Non-Diabetic: < 100 mg/dl<br>Impaired Fasting Glucose:<br>100-125 mg/dl<br>Diabetic: >/= 126 mg/dl | Hexokinase |
| GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R | 83.1 | Non-Diabetic: < 140 mg/dl<br>Impaired Glucose Tolerance:<br>140-199 mg/dl<br>Diabetic: >/= 200 mg/dl | Hexokinase |
| BILIRUBIN (TOTAL), Serum | 1.04 | 0.1-1.2 mg/dl | Colorimetric |
| BILIRUBIN (DIRECT), Serum | **0.33** | 0-0.3 mg/dl | Diazo |
| BILIRUBIN (INDIRECT), Serum | 0.71 | 0.1-1.0 mg/dl | Calculated |
| TOTAL PROTEINS, Serum | 7.4 | 6.4-8.3 g/dL | Biuret |
| ALBUMIN, Serum | 4.8 | 3.5-5.2 g/dL | BCG |
| GLOBULIN, Serum | 2.6 | 2.3-3.5 g/dL | Calculated |
| A/G RATIO, Serum | 1.8 | 1 - 2 | Calculated |
| SGOT (AST), Serum | 33.2 | 5-40 U/L | NADH (w/o P-5-P) |
| SGPT (ALT), Serum | **50.2** | 5-45 U/L | NADH (w/o P-5-P) |
| GAMMA GT, Serum | **134.8** | 3-60 U/L | Enzymatic |
| ALKALINE PHOSPHATASE, Serum | 104.3 | 40-130 U/L | Colorimetric |
| BLOOD UREA, Serum | 15.8 | 12.8-42.8 mg/dl | Kinetic |
| BUN, Serum | 7.4 | 6-20 mg/dl | Calculated |
| CREATININE, Serum | 1.02 | 0.67-1.17 mg/dl | Enzymatic |
| eGFR, Serum | 91 | >60 ml/min/1.73sqm | Calculated |

Note: eGFR estimation is calculated using MDRD (Modification of diet in renal disease study group) equation

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**Age / Gender** : 31 Years / Male

**Consulting Dr.** : -

**Reg. Location** : Malad West (Main Centre)

**Collected** : 23-Jun-2023 / 13:30

**Reported** : 23-Jun-2023 / 18:46

| | | | |
|---|---|---|---|
| URIC ACID, Serum | 4.5 | 3.5-7.2 mg/dl | Enzymatic |
| Urine Sugar (Fasting) | Absent | Absent | |
| Urine Ketones (Fasting) | Absent | Absent | |
| Urine Sugar (PP) | Absent | Absent | |
| Urine Ketones (PP) | Absent | Absent | |

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD CPL, Andheri West

*** End Of Report ***

**Dr.ANUPA DIXIT**
**M.D.(PATH)**
**Consultant Pathologist & Lab Director**

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| **Reg. Location** | : Malad West (Main Centre) | **Reported** | : 23-Jun-2023 / 13:22 |

## AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
## GLYCOSYLATED HEMOGLOBIN (HbA1c)

| PARAMETER | RESULTS | BIOLOGICAL REF RANGE | METHOD |
|---|---|---|---|
| Glycosylated Hemoglobin (HbA1c), EDTA WB - CC | 5.7 | Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >/= 6.5 % | HPLC |
| Estimated Average Glucose (eAG), EDTA WB - CC | 116.9 | mg/dl | Calculated |

**Intended use:**
- In patients who are meeting treatment goals, HbA1c test should be performed at least 2 times a year
- In patients whose therapy has changed or who are not meeting glycemic goals, it should be performed quarterly
- For microvascular disease prevention, the HbA1C goal for non pregnant adults in general is Less than 7%.

**Clinical Significance:**
- HbA1c, Glycosylated hemoglobin or glycated hemoglobin, is hemoglobin with glucose molecule attached to it.
- The HbA1c test evaluates the average amount of glucose in the blood over the last 2 to 3 months by measuring the percentage of glycosylated hemoglobin in the blood.

**Test Interpretation:**
- The HbA1c test evaluates the average amount of glucose in the blood over the last 2 to 3 months by measuring the percentage of Glycosylated hemoglobin in the blood.
- HbA1c test may be used to screen for and diagnose diabetes or risk of developing diabetes.
- To monitor compliance and long term blood glucose level control in patients with diabetes.
- Index of diabetic control, predicting development and progression of diabetic micro vascular complications.

**Factors affecting HbA1c results:**
**Increased in:** High fetal hemoglobin, Chronic renal failure, Iron deficiency anemia, Splenectomy, Increased serum triglycerides, Alcohol ingestion, Lead/opiate poisoning and Salicylate treatment.

**Decreased in:** Shortened RBC lifespan (Hemolytic anemia, blood loss), following transfusions, pregnancy, ingestion of large amount of Vitamin E or Vitamin C and Hemoglobinopathies

**Reflex tests:** Blood glucose levels, CGM (Continuous Glucose monitoring)

**References:** ADA recommendations, AACC, Wallach's interpretation of diagnostic tests 10th edition.

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*** End Of Report ***

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**Dr.ANUPA DIXIT**
**M.D.(PATH)**
**Pathologist**

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| Age / Gender | : 31 Years / Male | | |
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| Reg. Location | : Malad West (Main Centre) | Reported | : 23-Jun-2023 / 15:31 |

### AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
### URINE EXAMINATION REPORT

| PARAMETER | RESULTS | BIOLOGICAL REF RANGE | METHOD |
|---|---|---|---|
| **PHYSICAL EXAMINATION** | | | |
| Color | Pale yellow | Pale Yellow | - |
| Reaction (pH) | 7.0 | 4.5 - 8.0 | Chemical Indicator |
| Specific Gravity | 1.005 | 1.001-1.030 | Chemical Indicator |
| Transparency | Clear | Clear | - |
| Volume (ml) | 40 | - | - |
| **CHEMICAL EXAMINATION** | | | |
| Proteins | Absent | Absent | pH Indicator |
| Glucose | Absent | Absent | GOD-POD |
| Ketones | Absent | Absent | Legals Test |
| Blood | Absent | Absent | Peroxidase |
| Bilirubin | Absent | Absent | Diazonium Salt |
| Urobilinogen | Normal | Normal | Diazonium Salt |
| Nitrite | Absent | Absent | Griess Test |
| **MICROSCOPIC EXAMINATION** | | | |
| Leukocytes(Pus cells)/hpf | 1-2 | 0-5/hpf | |
| Red Blood Cells / hpf | Absent | 0-2/hpf | |
| Epithelial Cells / hpf | 0-1 | | |
| Casts | Absent | Absent | |
| Crystals | Absent | Absent | |
| Amorphous debris | Absent | Absent | |
| Bacteria / hpf | 2-3 | Less than 20/hpf | |
| Others | - | | |

**Interpretation:** The concentration values of Chemical analytes corresponding to the grading given in the report are as follows:
- Protein:(1+ ~25 mg/dl, 2+ ~75 mg/dl, 3+ ~ 150 mg/dl, 4+ ~ 500 mg/dl)
- Glucose:(1+ ~ 50 mg/dl, 2+ ~100 mg/dl, 3+ ~300 mg/dl,4+ ~1000 mg/dl)
- Ketone:(1+ ~5 mg/dl, 2+ ~15 mg/dl, 3+ ~ 50 mg/dl, 4+ ~ 150 mg/dl)

**Reference:** Pack insert

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## AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
### LIPID PROFILE

| PARAMETER | RESULTS | BIOLOGICAL REF RANGE | METHOD |
|---|---|---|---|
| CHOLESTEROL, Serum | **228.9** | Desirable: <200 mg/dl<br>Borderline High: 200-239mg/dl<br>High: >/=240 mg/dl | CHOD-POD |
| TRIGLYCERIDES, Serum | **165.9** | Normal: <150 mg/dl<br>Borderline-high: 150 - 199 mg/dl<br>High: 200 - 499 mg/dl<br>Very high:>/=500 mg/dl | GPO-POD |
| HDL CHOLESTEROL, Serum | 52.8 | Desirable: >60 mg/dl<br>Borderline: 40 - 60 mg/dl<br>Low (High risk): <40 mg/dl | Homogeneous enzymatic colorimetric assay |
| NON HDL CHOLESTEROL, Serum | **176.1** | Desirable: <130 mg/dl<br>Borderline-high:130 - 159 mg/dl<br>High:160 - 189 mg/dl<br>Very high: >/=190 mg/dl | Calculated |
| LDL CHOLESTEROL, Serum | **143.0** | Optimal: <100 mg/dl<br>Near Optimal: 100 - 129 mg/dl<br>Borderline High: 130 - 159 mg/dl<br>High: 160 - 189 mg/dl<br>Very High: >/= 190 mg/dl | Calculated |
| VLDL CHOLESTEROL, Serum | **33.1** | < /= 30 mg/dl | Calculated |
| CHOL / HDL CHOL RATIO, Serum | 4.3 | 0-4.5 Ratio | Calculated |
| LDL CHOL / HDL CHOL RATIO, Serum | 2.7 | 0-3.5 Ratio | Calculated |

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## AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
## THYROID FUNCTION TESTS

| PARAMETER | RESULTS | BIOLOGICAL REF RANGE | METHOD |
|---|---|---|---|
| Free T3, Serum | 5.6 | 3.5-6.5 pmol/L | ECLIA |
| Free T4, Serum | 15.6 | 11.5-22.7 pmol/L | ECLIA |
| sensitiveTSH, Serum | **11.4** | 0.35-5.5 microIU/ml mIU/ml | ECLIA |

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R E P O R T

Interpretation:
 A thyroid panel is used to evaluate thyroid function and/or help diagnose various thyroid disorders.

Clinical Significance:
1)TSH Values between high abnormal upto15 microIU/ml should be correlated clinically or repeat the test with new sample as physiological factors
   can give falsely high TSH.
2)TSH values may be trasiently altered becuase of non thyroidal illness like severe infections,liver disease, renal and heart severe burns,
   trauma and surgery etc.

| TSH | FT4 / T4 | FT3 / T3 | Interpretation |
|---|---|---|---|
| High | Normal | Normal | Subclinical hypothyroidism, poor compliance with thyroxine, drugs like amiodarone, Recovery phase of non-thyroidal illness, TSH Resistance. |
| High | Low | Low | Hypothyroidism, Autoimmune thyroiditis, post radio iodine Rx,  post thyroidectomy, Anti thyroid drugs, tyrosine kinase inhibitors & amiodarone, amyloid deposits in thyroid, thyroid tumors & congenital hypothyroidism. |
| Low | High | High | Hyperthyroidism, Graves disease, toxic multinodular goiter, toxic adenoma, excess iodine or thyroxine intake, pregnancy related (hyperemesis gravidarum, hydatiform mole) |
| Low | Normal | Normal | Subclinical Hyperthyroidism, recent Rx for Hyperthyroidism, drugs like steroids & dopamine), Non thyroidal illness. |
| Low | Low | Low | Central Hypothyroidism, Non Thyroidal Illness, Recent Rx for Hyperthyroidism. |
| High | High | High | Interfering anti TPO antibodies, Drug interference: Amiodarone, Heparin, Beta Blockers, steroids & anti epileptics. |

Diurnal Variation:TSH follows a diurnal rhythm and is at maximum between 2 am and 4 am , and is at a minimum between 6 pm and 10 pm.
 The variation is on the  order of 50 to 206%. Biological variation:19.7%(with in subject variation)

Reflex Tests:Anti thyroid Antibodies,USG Thyroid ,TSH receptor Antibody. Thyroglobulin, Calcitonin

Limitations:
1. Samples should not be taken from patients receiving therapy with high biotin doses (i.e. >5 mg/day) until atleast 8 hours
following the last biotin administration.
2. Patient samples may contain heterophilic antibodies that could react in immunoassays to give falsely elevated or depressed results.
this assay is designed to minimize interference from heterophilic antibodies.

Reference:
1.O.koulouri et al. / Best Practice and Research clinical Endocrinology and Metabolism 27(2013)
2.Interpretation of the thyroid function tests, Dayan et al. THE LANCET . Vol  357
3.Tietz ,Text Book of Clinical Chemistry and Molecular Biology -5th Edition
4.Biological Variation:From principles to Practice-Callum G Fraser (AACC Press)

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*** End Of Report ***

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