



TIME DIAGNOSTICS
(A Unit of Time Health Care)

Patient Name : MR. P.A RAVI SAMPATH

Age / Gender : 30 years / Male

Patient ID : 16850

Source : MEDI WHEEL

Referral : SELF

Collection Time : Feb 11, 2023, 09:46 a.m.

Reporting Time : Feb 11, 2023, 11:29 a.m.

Sample ID :



668769682

| Test Description | Value(s) | Reference Range | Unit |
|---|--------------|-----------------|---------------------|
| <u>CBC; Complete Blood Count</u> | | | |
| Hemoglobin (Hb)* Method : Cynmeth Photometric Measurement | 16.3 | 13.5 - 18.0 | gm/dL |
| Erythrocyte (RBC) Count* Method : Electrical Impedence | 5.7 | 4.7 - 6.0 | mil/cu.mm |
| Packed Cell Volume (PCV)* Method : Calculated | 56.7 | 42 - 52 | % |
| Mean Cell Volume (MCV)* Method : Electrical Impedence | 99.47 | 78 - 100 | fL |
| Mean Cell Haemoglobin (MCH)* Method : Calculated | 28.60 | 27 - 31 | pg |
| Mean Corpuscular Hb Concn. (MCHC)* Method : Calculated | 28.75 | 32 - 36 | gm/dL |
| Red Cell Distribution Width (RDW)* Method : Electrical Impedence | 12.8 | 11.5 - 14.0 | % |
| Total Leucocytes (WBC) Count* Method : Electrical Impedence | 8000 | 4000-10000 | cell/cu.mm |
| Neutrophils* Method : VCSn Technology | 65 | 40 - 80 | % |
| Lymphocytes* Method : VCSn Technology | 26 | 20 - 40 | % |
| Monocytes* Method : VCSn Technology | 8 | 2 - 10 | % |
| Eosinophils* Method : VCSn Technology | 1 | 1 - 6 | % |
| Basophils | 0 | 0 - 1 | |
| Platelet Count* Method : Electrical Impedence | 3.3 | 1.5 - 4.5 | 10 ³ /ul |
| Mean Platelet Volume (MPV)* Method : Electrical Impedence | 7.9 | 7.2 - 11.7 | fL |

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| PCT* Method : Calculated | 0.259 | 0.2 - 0.5 | % |
| PDW* Method : Calculated | 15.1 | 9.0 - 17.0 | % |

Tests done on Automated Three Part Cell Counter. (WBC, RBC, Platelet count by impedance method, colorimetric method for Hemoglobin, WBC differential by flow cytometry using laser technology other parameters are calculated). All Abnormal Haemograms are reviewed confirmed microscopically.

Esr, Erythrocyte Sedimentation Rate

| | | | |
|---|----|------|-------|
| Esr, Erythrocyte Sedimentation Rate (Westergren) | 10 | 0-10 | mm/hr |
|---|----|------|-------|

Interpretation:

- It indicates presence and intensity of an inflammatory process. It does not diagnose a specific disease. Changes in the ESR are more significant than the abnormal results of a single test.
- It is a prognostic test and used to monitor the course or response to treatment of diseases like tuberculosis, bacterial endocarditis, acute rheumatic fever, rheumatoid arthritis, SLE, Hodgkins disease, temporal arteritis and polymyalgia rheumatica.
- It is also increased in pregnancy, multiple myeloma, menstruation, and hypothyroidism.

Urine Routine

| | | |
|----------------------------|-------------|---------------|
| Colour* | Pale Yellow | |
| Transparency (Appearance)* | Clear | Clear |
| Reaction (pH)* | 5.0 | 4.5 - 8 |
| Specific Gravity* | 1.030 | 1.010 - 1.030 |

Chemical Examination (Automated Dipstick Method) Urine

| | | |
|----------------|--------------|----------|
| Urine Glucose* | Negative | Negative |
| Urine Protein* | Negative | Negative |
| Urine Ketone* | Negative | Negative |
| Blood* | Positive (+) | Negative |

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| Bilirubin* | Negative | Negative | |
| Nitrite* | Negative | Negative | |
| Leucocytes* | Negative | Negative | |
| Urobilinogen* | Normal | Normal | |
| Microscopic Examination <small>Urine</small> | | | |
| Pus Cells (WBCs)* | 1-2 | 0 - 5 | /hpf |
| Epithelial Cells* | 0-1 | 0 - 4 | /hpf |
| Red blood Cells* | 5-6 | Absent | /hpf |
| Crystals* | Absent | Absent | |
| Cast* | Absent | Absent | |
| Bacteria* | Absent | Absent | |

Blood Group & Rh Type

Blood Grouping & Rh Typing

Method : Forward and Reverse By Tube Method

"B" POSITIVE (+VE)

Methodology

This is done by forward and reverse grouping by tube Agglutination method.

Interpretation

Newborn baby does not produce ABO antibodies until 3 to 6 months of age. So the blood group of the Newborn baby is done by ABO antigen grouping (forward grouping) only, antibody grouping (reverse grouping) is not required. Confirmation of the New-born's blood group is indicated when the A and B antigen expression and the isoagglutinins are fully developed (2-4 years).

Fasting - Glucose

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| Test Description | Value(s) | Reference Range | Unit |
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| Glucose Fasting* Method : Plasma, Hexokinase | 85.92 | Normal: 70-100 Impaired Fasting Glucose (IFG): 100-125 Diabetes Mellitus: >= 126 (On more than one occasion) (American Diabetes Association guidelines 2017) | mg/dL |
| <u>Post Prandial Blood Sugar</u> | | | |
| Blood Glucose-Post Prandial* Method : Plasma - P, Hexokinase | 88 | 80-140 | mg/dL |
| <u>Fasting Urine Sugar</u> | | | |
| Fasting Urine Sugar | NEGATIVE | NEGATIVE - | |
| <u>Post Prandial Urine Sugar</u> | | | |
| Post Prandial Urine Sugar | NEGATIVE | | |
| <u>HBA1C (Glycosylated Haemoglobin)</u> | | | |
| Glyco Hb (HbA1C) Method : EDTA Whole blood,HPLC | 5.94 | Non-Diabetic: <=5.9 Pre Diabetic:6.0-6.4 Diabetic: >=6.5 | % |
| Estimated Average Glucose : | 123.78 | | mg/dL |

Interpretations

1. HbA1C has been endorsed by clinical groups and American Diabetes Association guidelines 2017 for diagnosing diabetes using a cut off point of 6.5%
2. Low glycated haemoglobin in a non diabetic individual are often associated with systemic inflammatory diseases, chronic anaemia (especially severe iron deficiency and haemolytic), chronic renal failure and liver diseases. Clinical correlation suggested.

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3. In known diabetic patients, following values can be considered as a tool for monitoring the glycemc control.

Excellent control-6-7 %

Fair to Good control – 7-8 %

Unsatisfactory control – 8 to 10 %

Poor Control – More than 10 %

Thyroid Function Test (TFT)

| | | | |
|--|------|---|--------|
| TRI-IODO THYRONINE (T3) Method : CLIA | 110 | 0.60 - 1.81 | ng/mL |
| TOTAL THYROXINE (T4) Method : CLIA | 8.67 | 4.2 - 12.0 | ug/dL |
| THYROID STIMULATING HORMONE (TSH) Method : CLIA | 2.13 | 0.46 – 8.10 : 1 Yrs – 5 Yrs 0.36 – 5.80 : 6 Yrs – 18 Yrs 0.35 – 5.50 : >18 Yrs Pregnancy Ranges 1st Trimester :0.1 - 2.5 2nd Trimester :0.2 - 3.0 3rd Trimester:0.3 - 3.0 | uIU/mL |

Comments:

IF NOT ON DRUGS SUGGESTED FT3 & FT4 ESTIMATION

Please correlate with clinical conditions.

Note : Serum T3, T4 and TSH form the three components of thyroid screening panel, useful in diagnosing various disorders of the thyroid gland. Primary Hypothyroidism is accompanied by depressed serum T3 and T4 values and elevated serum TSH levels. Although elevated TSH levels are nearly always indicative of Primary Hypothyroidism, rarely they can from TSH secreting pituitary tumors (Secondary hyperthyroidism)To confirm diagnosis - evaluate FT3 and FT4.

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| Test Description | Value(s) | Reference Range | Unit |
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| <u>Lipid Profile</u> | | | |
| Cholesterol-Total Method : Serum, Cholesterol oxidase esterase, peroxidase | 158.06 | Desirable: <= 200 Borderline High: 201-239 High: > 239 Ref: The National Cholesterol Education Program (NCEP) Adult Treatment Panel III Report. | mg/dL |
| Triglycerides Method : Serum, Enzymatic, endpoint | 150.91 | Normal: < 150 Borderline High: 150-199 High: 200-499 Very High: >= 500 | mg/dL |
| Cholesterol-HDL Direct Method : Serum, Direct measure-PEG | 40 | <40: Low 40 - 60: Optimal > 60: Desirable | mg/dL |
| LDL Cholesterol Method : Serum | 87.88 | Optimal: < 100 Near optimal/above optimal: 100-129 Borderline high: 130-159 High: 160-189 Very High: >= 190 | mg/dL |
| Non - HDL Cholesterol, Serum Method : calculated | 118.06 | Desirable: < 130 mg/dL Borderline High: 130-159mg/dL High: 160-189 mg/dL Very High: > or = 190 mg/dL | mg/dL |
| VLDL Cholesterol Method : calculated | 30.18 | 6 - 38 | mg/dL |
| CHOL/HDL RATIO Method : calculated | 3.95 | 3.5 - 5.0 | ratio |

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| LDL/HDL RATIO Method : calculated | 2.20 | Desirable / low risk - 0.5 -3.0 Low/ Moderate risk - 3.0- 6.0 Elevated / High risk - > 6.0 | ratio |

Note: 8-10 hours fasting sample is required.

KIDNEY FUNCTION TEST

| | | | |
|--|------|-----------|-------|
| Urea * Method : Serum | 25 | 15- 50 | mg/dL |
| Blood Urea Nitrogen-BUN* Method : Serum, Urease | 11.6 | 7 - 24 | mg/dL |
| Uric Acid* Method : Serum, Uricase/POD | 4.7 | 3.5 - 7.2 | mg/dL |
| Creatinine* Method : Serum, Jaffe IDMS | 1.1 | 0.7 - 1.3 | mg/dL |

Liver Funtion Test (LFT) with GGT

| | | | |
|--|-------------|----------------------------|-------|
| Bilirubin - Total Method : Serum, Jendrassik Grof | 1.2 | 0.3 - 1.2 | mg/dL |
| Bilirubin - Direct Method : Serum, Diazotization | 0.5 | Adults and Children: < 0.2 | mg/dL |
| Bilirubin - Indirect Method : Serum, Calculated | 0.7 | 0.1 - 1.0 | mg/dL |
| SGOT Method : Serum, UV with P5P, IFCC 37 degree | 24.78 | < 50 | U/L |
| SGPT Method : Serum, UV with P5P, IFCC 37 degree | 4.86 | < 50 | U/L |
| SGOT/SGPT Method : calculated | 5.10 | 0.7 - 1.4 | ratio |
| Alkaline Phosphatase-ALP Method : Serum, PNPP, AMP Buffer, IFCC 37 degree | 81.02 | 30-120 | U/L |

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| Test Description | Value(s) | Reference Range | Unit |
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| Total Protein Method : Serum, Biuret, reagent blank end point | 6.96 | 6.6 - 8.3 | g/dL |
| Albumin Method : Serum, Bromcresol purple | 3.87 | Adults: 3.5 - 5.2 | g/dL |
| Globulin Method : Calculated | 3.09 | 1.8 - 3.6 | g/dL |
| A/G Ratio Method : Calculated | 1.25 | 1.2 - 2.2 | ratio |

****END OF REPORT****

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