| Name | : Mrs. SOWMYA |
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| SID No. | : 78393137 |
| Age / Sex | : 25 Year(s) / Female |
| Туре | : OP |
| Ref. Dr | : MediWheel |

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| Investigation | <u>Observed</u> <u>Value</u> | <u>Unit</u> | <u>Biological</u> <u>Reference Interval</u> |
|----------------------------------------------------------------------------------|---------------------------------|-------------|------------------------------------------------|
| HAEMATOLOGY | | | |
| Complete Blood Count With - ESR | | | |
| Haemoglobin (Blood/Photometry ó"Cell counter) | 11.08 | g/dL | 12.5 - 16.0 |
| PCV (Packed Cell Volume) / Haematocrit (Blood/Numeric Integration of MCV) | 35.62 | % | 37 - 47 |
| RBC Count (Whole Blood/Electrical Impedance) | 04.52 | mill/cu.mm | 4.2 - 5.4 |
| MCV (Mean Corpuscular Volume) (Blood/ <i>Calculated</i>) | 78.86 | fL | 78 - 100 |
| MCH (Mean Corpuscular Haemoglobin) (Blood/Calculated) | 24.52 | pg | 27 - 32 |
| MCHC (Mean Corpuscular Haemoglobin concentration) (Blood/ <i>Calculated</i>) | 31.09 | g/dL | 32 - 36 |
| RDW-CV | 13.46 | % | 11.5 - 16.0 |
| RDW-SD | 35.12 | fL | 39 - 46 |
| Total WBC Count (TC) (Whole Blood/ <i>Electrical Impedance</i>) | 8080 | cells/cu.mm | 4000 - 11000 |
| Neutrophils (Blood/Impedance and absorbance) | 60.30 | % | 40 - 75 |
| Lymphocytes (Blood/Impedance and absorbance) | 31.50 | % | 20 - 45 |
| Eosinophils (Blood/Impedance and absorbance) | 01.40 | % | 01 - 06 |
| Monocytes (Blood/Impedance and absorbance) | 06.60 | % | 01 - 10 |

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| Basophils | 00.20 | % | 00 - 02 |
| (Blood/Impedance and absorbance) | | | |
| INTERPRETATION: Tests done on Automated Five I | Part cell counter. All a | abnormal results are revie | ewed and confirmed microscopically. |
| Absolute Neutrophil count (Blood/Impedance and absorbance) | 04.88 | 10^3 / µl | 1.5 - 6.6 |
| Absolute Lymphocyte Count (Blood/Impedance and absorbance) | 02.55 | 10^3 / µl | 1.5 - 3.5 |
| Absolute Eosinophil Count (AEC) (Blood/Impedance and absorbance) | 00.11 | 10^3 / µl | 0.04 - 0.44 |
| Absolute Monocyte Count (Blood/Impedance and absorbance) | 00.53 | 10^3 / µl | < 1.0 |
| Absolute Basophil count (Blood/Impedance and absorbance) | 00.02 | 10^3 / µl | < 0.2 |
| Platelet Count (Blood/Electrical Impedance) | 3.25 | lakh/cu.mm | 1.4 - 4.5 |
| INTERPRETATION: Platelet count less than 1.5 lakh | s will be confirmed m | icroscopically. | |
| MPV (Blood/Automated Blood cell Counter) | 08.19 | fL | 8.0 - 13.3 |
| РСТ | 0.25 | % | 0.18 - 0.28 |
| ESR (Erythrocyte Sedimentation Rate) (Blood/Automated ESR analyser) | 35 | mm/hr | < 20 |
| | | | |

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| BIOCHEMISTRY | | | |
| Liver Function Test | | | |
| Bilirubin(Total) (Serum/DCA with ATCS) | 0.81 | mg/dL | 0.1 - 1.2 |
| Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid) | 0.20 | mg/dL | 0.0 - 0.3 |
| Bilirubin(Indirect) (Serum/Derived) | 0.61 | mg/dL | 0.1 - 1.0 |
| SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC) | 24.6 | U/L | 5 - 40 |
| SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC) | 23.8 | U/L | 5 - 41 |
| GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic) | 25.5 | U/L | < 38 |
| Alkaline Phosphatase (SAP) (Serum/ <i>Modified IFCC</i>) | 84.8 | U/L | 42 - 98 |
| Total Protein (Serum/Biuret) | 7.20 | gm/dl | 6.0 - 8.0 |
| Albumin (Serum/Bromocresol green) | 3.83 | gm/dl | 3.5 - 5.2 |
| Globulin (Serum/Derived) | 3.37 | gm/dL | 2.3 - 3.6 |
| A : G RATIO | 1.14 | | 1.1 - 2.2 |

A : G RATIO (Serum/Derived)





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|-----------------------------------------|---------------------------------|-------------|-----------------------------------------------------------------|
| <u>Glycosylated Haemoglobin (HbA1c)</u> | | | |
| HbA1C (Whole Blood/ <i>HPLC</i>) | 5.4 | % | Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5 |
| | | | |

INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 %, Fair control : 7.1 - 8.0 %, Poor control >= 8.1 %

| Estimated Average Glucose | 108.28 | mg/dL |
|---------------------------|--------|-------|
|---------------------------|--------|-------|

(Whole Blood)

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency,

hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbAlC values. Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbAlc.





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| Investigation | <u>Observed</u> <u>Value</u> | <u>Unit</u> | Biological Reference Interval |
|----------------------------------------------------------------|---------------------------------|-------------|--------------------------------------------------------------------------------|
| Lipid Profile | | | |
| Cholesterol Total (Serum/Cholesterol oxidase/Peroxidase) | 132 | mg/dL | Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240 |
| Triglycerides (Serum/Glycerol-phosphate oxidase/Peroxidase) | 110 | mg/dL | Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >=500 |

INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the õusualö" circulating level of triglycerides during most part of the day.

| HDL Cholesterol (Serum/Direct Detergent) | 31.94 | mg/dL | Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50 |
|----------------------------------------------------------------------------------|-------|-------|-------------------------------------------------------------------------------------------------------------|
| LDL Cholesterol (Serum/ <i>Calculated</i>) | 78.1 | mg/dL | Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190 |
| VLDL Cholesterol (Serum/ <i>Calculated</i>) | 22 | mg/dL | < 30 |
| DR.FAYIOAH MD (PATH) CONSULTANT - PATHOLOGIST REG NO:116685 VERIFIED BY | | / | Saravanan M.D(Path) hsultant Pathologist Reg No : 73347 |

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|----------------------------------------------------|---------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|
| Non HDL Cholesterol (Serum/ <i>Calculated</i>) | 100.1 | mg/dL | Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220 |

INTERPRETATION: 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol. 2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.

| Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated) | 4.1 | Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0 |
|-------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------|
| Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/ <i>Calculated</i>) | 3.4 | Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0 |
| LDL/HDL Cholesterol Ratio (Serum/Calculated) | 2.4 | Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0 |

(IQAH MD(PATH) DR

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-----------------------------------|
| IMMUNOASSAY | | | |
| THYROID PROFILE / TFT | | | |
| T3 (Triiodothyronine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA)) | 1.05 | ng/mL | 0.7 - 2.04 |
| INTERPRETATION: Comment : Total T3 variation can be seen in other condition like preg Metabolically active. | gnancy, drugs, nephr | osis etc. In such cases, Free T | 3 is recommended as it is |
| T4 (Thyroxine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA)) | 7.0 | µg/dL | 4.2 - 12.0 |
| INTERPRETATION: Comment : Total T4 variation can be seen in other condition like preg Metabolically active. | gnancy, drugs, nephr | osis etc. In such cases, Free T | 4 is recommended as it is |
| TSH (Thyroid Stimulating Hormone) (Serum/Chemiluminescence) | 4.63 | µIU/mL | 0.35 - 5.50 |
| INTERPRETATION: Reference range for cord blood - upto 20 1 st trimester: 0.1-2.5 2 nd trimester 0.2-3.0 3 rd trimester : 0.3-3.0 (Indian Thyroid Society Guidelines) Comment : 1.TSH reference range during pregnancy depends on Iodi 2.TSH Levels are subject to circadian variation, reaching of the order of 50%, hence time of the day has influence of 3 Values from blt 0.03 ull V(mL prod to be clinically correl | peak levels between on the measured seru | 2-4am and at a minimum bet m TSH concentrations. | ween 6-10PM. The variation can be |

3. Values&lt,0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.



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|---------------------------------------------------------------------------------|---------------------------------|-------------|----------------------------------|
| CLINICAL PATHOLOGY | | | |
| PHYSICAL EXAMINATION | | | |
| Colour (Urine/Physical examination) | Pale Yellow | | Yellow to Amber |
| Appearance (Urine/Physical examination) | clear | | |
| Volume(CLU) | 40 ml | | |
| CHEMICAL EXAMINATION | | | |
| Leukocytes(CP) | Negative | | |
| pH (Urine/Double Indicator) | 6.0 | | 4.5 - 8.0 |
| Specific Gravity (Urine/Ionic concentration) | 1.015 | | 1.002 - 1.035 |
| Ketone (Urine/Dip Stick Reagent strip Method / Rotheraøs mixture.) | Negative | | Negative |
| Urobilinogen (Urine/Dipstik ó"Reagent strip method / Ehrlichøs Reaction) | Normal | | Within normal limits |
| Blood (Urine/Dip-Stick Method Peroxidase like activity of HB) | Negative | | Negative |
| Nitrite (Urine/Dip Stick ó"Reagent strip method.) | Negative | | Negative |
| Bilirubin (Urine/Dip Stick óDiazotized Dichloro aniline/Fouchets method.) | Negative | | Negative |

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| Protein (Urine/Dipstick-Error of indicator/ Sulphosalicylic acid method) | Negative | | Negative |
| Glucose (Urine/Dip Stick Method / Glucose Oxidase - Peroxidase / Benedictøs semi quantitative method.) | Negative | | Negative |
| <u>Urine Microscopy Pictures</u> | | | |
| RBCs (Urine/Microscopy exam of urine sediment) | Nil | /hpf | Nil |
| Pus Cells (Urine/Microscopy exam of urine sediment) | 4-5 | /hpf | NIL |
| Casts (Urine/Microscopy exam of urine sediment) | Nil | /hpf | NIL |
| Epithelial Cells (Urine/Microscopy exam of urine sediment) | 3-5 | /hpf | Nil |
| Urine Crystals (Stool) | Nil | /hpf | NIL |
| Others | Nil | | Nil |

(Urine)

INTERPRETATION: Note: Done with Automated Urine Analyser & microscopy

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Investigation

<u>Observed</u> <u>Value</u> Biological Reference Interval

HAEMATOLOGY

BLOOD GROUPING AND Rh TYPING (Blood/Agglutination)

'O' 'Positive'

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<u>Unit</u>

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| BIOCHEMISTRY | | | |
| BUN / Creatinine Ratio | 23.26 | | 6.0 - 22.0 |
| Glucose Fasting (FBS) (Plasma - F/ <i>Glucose oxidase/Peroxidase</i>) | 86 | mg/dL | Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126 |

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

| Glucose, Fasting (Urine) | Negative | | Negative |
|------------------------------------------|----------|-------|----------|
| (Urine - F) | | | |
| Glucose Postprandial (PPBS) | 103 | mg/dL | 70 - 140 |
| (Plasma - PP/Glucose oxidase/Peroxidase) | | | |

INTERPRETATION:

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti- diabetic medication during treatment for Diabetes.

| Urine Glucose(PP-2 hours) (Urine - PP) | Negative | | Negative |
|--------------------------------------------------------|----------|-------|-----------|
| Blood Urea Nitrogen (BUN) (Serum/Urease UV/derived) | 11.4 | mg/dL | 7.0 - 21 |
| Creatinine (Serum/Jaffe ó"Alkaline Picrate) | 0.79 | mg/dL | 0.6 - 1.1 |
| Uric Acid (Serum/Enzymatic) | 3.8 | mg/dL | 2.6 - 6.0 |





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-- End of Report --