


## Diagnosics & Speciality Centre

|                               |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------|
| NAME : <b>Mrs. CHAITHRA P</b> | MR NO. : 23100450                                                                   |
| AGE/SEX : 32 Yrs / Female     | VISIT NO. : 181671                                                                  |
| REFERRED BY :                 | DATE OF COLLECTION : 14-10-2023 at 09:20 AM                                         |
|                               | DATE OF REPORT : 14-10-2023 at 03:40 PM                                             |
| REF CENTER : MEDIWHEEL        |  |

| TEST PARAMETER | RESULT | REFERENCE RANGE | SPECIMEN |
|----------------|--------|-----------------|----------|
|----------------|--------|-----------------|----------|

MEDIWHEEL HEALTH CHECKUP FEMALE

### HAEMATOLOGY

#### COMPLETE BLOOD COUNT (CBC) WITH ESR

*Automated Cell Counter*

|                                                           |                    |                       |
|-----------------------------------------------------------|--------------------|-----------------------|
| HAEMOGLOBIN<br><i>Colorimetric Method</i>                 | 13.5 gm/dL         | 12 - 16 gm/dL         |
| HEMATOCRIT (PCV)<br><i>Calculated</i>                     | 41.2 %             | 36 - 47 %             |
| RED BLOOD CELL (RBC) COUNT<br><i>Electrical Impedance</i> | 4.86 million/cu.mm | 4 - 5.2 million/cu.mm |
| PLATELET COUNT<br><i>Electrical Impedance</i>             | 2.77 Lakhs/cumm    | 1.5 - 4.5 Lakhs/cumm  |
| MEAN CELL VOLUME (MCV)<br><i>Calculated</i>               | 84.8 fl            | 80 - 100 fl           |

Note : All normal and abnormal platelet counts are cross checked on peripheral smear.

|                                                                       |                 |                         |
|-----------------------------------------------------------------------|-----------------|-------------------------|
| MEAN CORPUSCULAR HEMOGLOBIN (MCH)<br><i>Calculated</i>                | 27.8 pg         | 26 - 34 pg              |
| MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)<br><i>Calculated</i> | 32.8 %          | 31 - 35 %               |
| TOTAL WBC COUNT (TC)<br><i>Electrical Impedance</i>                   | 5630 cells/cumm | 4000 - 11000 cells/cumm |
| NEUTROPHILS<br><i>VCS Technology/Microscopic</i>                      | 59 %            | 40 - 75 %               |
| LYMPHOCYTES<br><i>VCS Technology/Microscopic</i>                      | 34 %            | 25 - 40 %               |

#### DIFFERENTIAL COUNT

|                                                  |          |              |
|--------------------------------------------------|----------|--------------|
| EOSINOPHILS<br><i>VCS Technology/Microscopic</i> | 03 %     | 0 - 7 %      |
| MONOCYTES<br><i>VCS Technology/Microscopic</i>   | 04 %     | 1 - 8 %      |
| BASOPHILS<br><i>Electrical Impedance</i>         | 00 %     |              |
| ESR<br><i>Westergren Method</i>                  | 18 mm/hr | 0 - 20 mm/hr |

|                                                                            |              |
|----------------------------------------------------------------------------|--------------|
| BLOOD GROUP & Rh TYPING<br><i>Tube Agglutination (Forward and Reverse)</i> | "B" Positive |
|----------------------------------------------------------------------------|--------------|



Lab Seal



Dr. VAMSEEDHAR.A

D.C.P, M.D

CONSULTANT PATHOLOGIST, KMC No : 50937

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| TEST PARAMETER                              | RESULT | REFERENCE RANGE                                                                                                                                                                                                                                                                           | SPECIMEN |
|---------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| GLYCATED HAEMOGLOBIN (HbA1C)<br><i>HPLC</i> | 5.7 %  | <b>American Diabetic Association (ADA) recommendations:</b><br><br>Non diabetic adults : <5.7 %<br><br>At risk (Pre diabetic): 5.7 – 6.4%<br><br>Diabetic : >= 6.5%<br><br><b>Therapeutic goal for glycemic control :</b><br><br>Goal for therapy: < 7.0%<br><br>Action suggested: > 8.0% |          |

ESTIMATED AVERAGE GLUCOSE (eAG) 116.89 mg/dL

*Calculation*

### Comments:

This assay is useful for diagnosing Diabetes and evaluating long term control of blood glucose concentrations in diabetic patients. It reflects the mean glucose concentration over the previous period of 8 to 12 weeks and is a better indicator of long term glycemic control as compared with blood and urine glucose measurements. This provides an additional criterion for assessing glucose control because glycated hemoglobin values are free of day-to-day glucose fluctuation and are unaffected by exercise or food ingestion.

After a sudden alteration in blood glucose concentration, the rate of change of HbA1c is rapid during initial 2 months, followed by more gradual change approaching steady state 3 months later.



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### CLINICAL BIOCHEMISTRY

|                                                                   |              |                  |  |
|-------------------------------------------------------------------|--------------|------------------|--|
| <b>BLOOD UREA</b><br><i>UREASE-GLUTAMATE DEHYDROGENASE (GLDH)</i> | 23.3 mg/dL   | 15 - 50 mg/dL    |  |
| <b>CREATININE</b><br><i>Jaffe Kinetic</i>                         | 0.70 mg/dL   | 0.4 - 1.4 mg/dL  |  |
| <b>URIC ACID</b><br><i>Uricase-Peroxidase</i>                     | 5.2 mg/dL    | 2.5 - 6 mg/dL    |  |
| <b>SERUM ELECTROLYTES</b>                                         |              |                  |  |
| <b>SODIUM</b><br><i>Ion Selective Electrode (ISE)</i>             | 141.2 mmol/L | 136 - 145 mmol/L |  |
| <b>POTASSIUM</b><br><i>Ion Selective Electrode (ISE)</i>          | 4.25 mmol/L  | 3.5 - 5.2 mmol/L |  |
| <b>CHLORIDE</b><br><i>Ion Selective Electrode (ISE)</i>           | 100 mmol/L   | 97 - 111 mmol/L  |  |
| <b>LIVER FUNCTION TEST (LFT)</b><br><i>Spectrometry</i>           |              |                  |  |
| <b>TOTAL BILIRUBIN</b><br><i>Colorimetric Diazo Method</i>        | 0.52 mg/dL   | 0.2 - 1.2 mg/dL  |  |
| <b>DIRECT BILIRUBIN</b><br><i>Colorimetric Diazo Method</i>       | 0.24 mg/dL   | 0 - 0.4 mg/dL    |  |
| <b>INDIRECT BILIRUBIN</b><br><i>Calculation</i>                   | 0.28 mg/dl   | 0.2 - 0.8 mg/dl  |  |
| <b>S G O T (AST)</b><br><i>IFCC Without Pyridoxal Phosphates</i>  | 18.7 U/L     | up to 31 U/L     |  |
| <b>S G P T (ALT)</b><br><i>IFCC Without Pyridoxal Phosphates</i>  | 20.1 U/L     | up to 46 U/L     |  |
| <b>ALKALINE PHOSPHATASE</b><br><i>p-Nitrophenyl Phosphate</i>     | 90 U/L       | 36 - 113 U/L     |  |
| <b>SERUM GAMMA GLUTAMYLTRANSFERASE (GGT)</b><br><i>GCNA-IFCC</i>  | 23.5 U/L     | 5 - 55 U/L       |  |
| <b>TOTAL PROTEIN</b><br><i>Biuret Colorimetric</i>                | 6.23 g/dl    | 6.2 - 8 g/dl     |  |
| <b>S.ALBUMIN</b><br><i>Bromocresol Green (BCG)</i>                | 3.65 g/dl    | 3.5 - 5.2 g/dl   |  |
| <b>S.GLOBULIN</b><br><i>Calculation</i>                           | 2.6 g/dl     | 2.5 - 3.8 g/dl   |  |
| <b>A/G RATIO</b><br><i>Calculation</i>                            | 1.4          | 1 - 1.5          |  |
| <b>POST PRANDIAL BLOOD SUGAR</b><br><i>Hexokinase</i>             | 113.3 mg/dl  | 80 - 150 mg/dl   |  |
| <b>FASTING BLOOD SUGAR</b><br><i>Hexokinase</i>                   | 91.3 mg/dl   | 70 - 110 mg/dl   |  |



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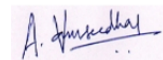
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| <b>LIPID PROFILE TEST</b><br><i>Spectrometry</i>                                   |            |                                                                                                                                                                              |          |
| <b>TOTAL CHOLESTEROL</b><br><i>Cholesterol Oxidase-Peroxidase (CHOD-POD)</i>       | 144 mg/dL  | up to 200 mg/dL<br>Border Line: 200 – 240 mg/dL<br>High: > 240 mg/dL                                                                                                         |          |
| <b>TRIGLYCERIDES</b><br><i>Glycerol Peroxidase-Peroxidase (GPO-POD)</i>            | 79.7 mg/dL | up to 150 mg/dL<br>Desirable: <150 mg/dL<br>Border Line: 150 – 200 mg/dL<br>High: >200 – 500 mg/dL<br>Very High: > 500 mg/dL                                                 |          |
| <b>HDL CHOLESTEROL - DIRECT</b><br><i>PEG-Cholesterol Esterase</i>                 | 35.6 mg/dl | 40 - 60 mg/dl<br>>= 60mg/dL - Excellent (protects against heart disease)<br>40-59 mg/dL - Higher the better<br><40 mg/dL - Lower than desired (major risk for heart disease) |          |
| <b>LDL CHOLESTEROL - DIRECT</b><br><i>Cholesterol Esterase-Cholesterol Oxidase</i> | 92.5 mg/dL | up to 100 mg/dL<br>100-129 mg/dL- Near optimal/above optimal<br>130-159 mg/dL- Borderline High<br>160-189 mg/dL- High<br>190->190 mg/dL - Very High                          |          |
| <b>VLDL CHOLESTEROL</b><br><i>Calculation</i>                                      | 15.9 mg/dL | 2 - 30 mg/dL                                                                                                                                                                 |          |
| <b>TOTAL CHOLESTROL/HDL RATIO</b><br><i>Calculation</i>                            | 4.0        | up to 3<br>3.0-4.4 - Moderate<br>>4.4 - High                                                                                                                                 |          |
| <b>LDL/HDL RATIO</b><br><i>Calculation</i>                                         | 2.6        | up to 2.5<br>2.5-3.3 - Moderate<br>>3.3 - High                                                                                                                               |          |



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### CLINICAL PATHOLOGY

#### URINE ROUTINE & MICROSCOPIC

*Strips & Microscopy*

##### PHYSICAL EXAMINATION

|                                          |                 |                     |
|------------------------------------------|-----------------|---------------------|
| Colour<br><i>Visual Method</i>           | Pale Yellow     | Pale yellow- yellow |
| Appearance<br><i>Visual Method</i>       | Slightly Turbid | Clear/Transparent   |
| Specific Gravity<br><i>Strips Method</i> | 1.030           | 1.005-1.035         |
| pH                                       | 6.0             | 4.6-8.5             |

##### CHEMICAL EXAMINATION (DIPSTICK)

|                                       |          |            |
|---------------------------------------|----------|------------|
| Protein<br><i>Strips Method</i>       | Nil      | Nil -Trace |
| Glucose<br><i>Strips Method</i>       | Nil      | Nil        |
| Blood<br><i>Strips Method</i>         | Negative | Negative   |
| Ketone Bodies<br><i>Strips Method</i> | Absent   | Negative   |
| Urobilinogen<br><i>Strips Method</i>  | Normal   | Normal     |
| Bile Salt<br><i>Strips Method</i>     | Negative | Negative   |
| Bilirubin<br><i>Strips Method</i>     | Negative | Negative   |
| Bile Pigments                         | Negative | NIL        |

##### MICROSCOPY

|                                              |               |         |
|----------------------------------------------|---------------|---------|
| Pus Cells (WBC)<br><i>Light Microscopic</i>  | 3 - 4 /hpf    | 0-5/hpf |
| Epithelial Cells<br><i>Light Microscopic</i> | 6 - 8 /hpf    | 0-4/hpf |
| RBC<br><i>Light Microscopic</i>              | Not Seen /hpf | 0-2/hpf |
| Cast<br><i>Light Microscopic</i>             | NIL           | NIL     |
| Crystal<br><i>Light Microscopic</i>          | NIL           | Nil     |

|                           |     |     |
|---------------------------|-----|-----|
| FASTING URINE SUGAR (FUS) | NIL | NIL |
|---------------------------|-----|-----|



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|--------------------------|--------|-----------------|----------|
| POSTPRANDIAL URINE SUGAR | NIL    | NIL             |          |

### IMMUNOASSAY

#### THYROID PROFILE

|                                                          |             |                                                                                                              |
|----------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|
| TOTAL TRIIODOTHYRONINE (T3)<br><small>CMIA</small>       | 1.38 ng/mL  | 0.87 - 1.78 ng/mL                                                                                            |
| TOTAL THYROXINE (T4)<br><small>CMIA</small>              | 10.7 µg/dL  | 6.09 - 12.23 µg/dL                                                                                           |
| THYROID STIMULATING HORMONE (TSH)<br><small>CMIA</small> | 4.05 µIU/mL | 0.38 - 5.33 µIU/mL<br>1st Trimester: 0.05 - 3.70<br>2nd Trimester: 0.31 - 4.35<br>3rd Trimester: 0.41 - 5.18 |

#### Note:

- TSH levels are subject to circadian variation, reaching peak levels between 2 - 4.a.m. and at a minimum between 6-10 pm. The variation is of the order of 50%, hence time of the day has influence on the measured serum TSH concentrations.
- Recommended test for T3 and T4 is unbound fraction or free levels as it is metabolically active.
- Physiological rise in Total T3 / T4 levels is seen in pregnancy and in patients on steroid therapy.

#### Clinical Use:

- Primary Hypothyroidism
- Hyperthyroidism
- Hypothalamic - Pituitary hypothyroidism
- Inappropriate TSH secretion
- Nonthyroidal illness
- Autoimmune thyroid disease
- Pregnancy associated thyroid disorders
- Thyroid dysfunction in infancy and early childhood

Dispatched by: Pooja Harikant

\*\*\*\* End of Report \*\*\*\*

Printed on 14-10-2023 at 03:41 PM



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| NAME        | : Mrs. CHAITHRA P | MR/VISIT NO    | : 23100450 / 181671      |
| AGE/SEX     | : 32 Yrs / Female | BILLED TIME    | : 14-10-2023 at 09:15 AM |
| REFERRED BY | :                 | BILL NO        | : 213658                 |
| REF CENTER  | : MEDIWHEEL       | DATE OF REPORT | : 14-10-2023 at 05:05 PM |

MEDIWHEEL HEALTH CHECKUP FEMALE

RADIOLOGY

### X-RAY CHEST PA VIEW

#### **OBSERVATIONS:**

The lung fields are clear bilaterally.  
CP angles are clear.  
Both the hila appear normal.  
Cardiac diameter is within normal limits.  
Tracheal is mid line.  
Visible bony thoracic cage is normal.  
Adjacent soft tissues appear normal.

#### **IMPRESSION:**

- **No significant abnormality in the visualized lung fields.**



**Dr. GIRISH.B**

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MEDIWHEEL HEALTH CHECKUP FEMALE

RADIOLOGY

### **SONO MAMMOGRAPHY OF BILATERAL BREASTS**

#### **OBSERVATION:**

#### **RIGHT BREAST:**

Breast shows normal fibro glandular pattern.

No evidence of any cystic changes in the breast parenchyma.

Subareolaer region is normal. Retroareolar ducts appear normal. No evidence of significant ductal dilation.

No obvious solid focal lesion seen.

Nipple is normal.

Adjacent skin, subcutaneous planes and retro mammary space are normal.

**Few (2-3) lymph nodes in right axilla, largest measuring ~ 11 x 5 mm.**

#### **LEFT BREAST:**

Breast shows normal fibro glandular pattern.

No evidence of any cystic changes in the breast parenchyma.

Subareolaer region is normal. Retroareolar ducts appear normal. No evidence of significant ductal dilation.

No obvious solid focal lesion seen.

Nipple is normal.

Adjacent skin, subcutaneous planes and retro mammary space are normal.

**Few (2-3) lymph nodes in left axilla, largest measuring ~ 10 x 6 mm.**



**Dr. GIRISH.B**

DMRD, DNB (RD) FELLOWSHIP IN MSK RADIOLOGY (USA)  
CONSULTANT RADIOLOGIST



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### **IMPRESSION:**

- **No significant abnormality in bilateral sonomammography (BIRADS I).**
- **Few small bilateral axillary lymph nodes.**

### **NOTE: BI – RADS SCORING KEY**

- O – Needs additional evaluation;
- I – Negative
- II – Benign findings
- III – Probably benign
- IV – Suspicious abnormality – Biopsy to be considered
- V – Highly suggestive of malignancy,
- VI – Known biopsy proven malignancy



**Dr. GIRISH.B**