

| | |
|-------------------------------|--|
| Patient Name : Mrs.G K PUSHPA | Collected : 28/Sep/2023 08:43AM |
| Age/Gender : 57 Y 6 M 0 D/F | Received : 28/Sep/2023 12:01PM |
| UHID/MR No : CBAS.0000089566 | Reported : 28/Sep/2023 05:19PM |
| Visit ID : CBASOPV95610 | Status : Final Report |
| Ref Doctor : Dr.SELF | Sponsor Name : ARCOFEMI HEALTHCARE LIMITED |
| Emp/Auth/TPA ID : 568998. | |

DEPARTMENT OF HAEMATOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
|-----------|--------|------|-----------------|--------|
|-----------|--------|------|-----------------|--------|

HEMOGRAM , WHOLE BLOOD EDTA

| | | | | |
|-----------------------------|-------|---------------|------------|--------------------------------|
| HAEMOGLOBIN | 13.5 | g/dL | 12-15 | Spectrophotometer |
| PCV | 39.40 | % | 36-46 | Electronic pulse & Calculation |
| RBC COUNT | 4.72 | Million/cu.mm | 3.8-4.8 | Electrical Impedance |
| MCV | 83.4 | fL | 83-101 | Calculated |
| MCH | 28.6 | pg | 27-32 | Calculated |
| MCHC | 34.3 | g/dL | 31.5-34.5 | Calculated |
| R.D.W | 13 | % | 11.6-14 | Calculated |
| TOTAL LEUCOCYTE COUNT (TLC) | 5,780 | cells/cu.mm | 4000-10000 | Electrical Impedance |

DIFFERENTIAL LEUCOCYTIC COUNT (DLC)

| | | | | |
|-------------|------|---|-------|----------------------|
| NEUTROPHILS | 58.7 | % | 40-80 | Electrical Impedance |
| LYMPHOCYTES | 29.2 | % | 20-40 | Electrical Impedance |
| EOSINOPHILS | 3.5 | % | 1-6 | Electrical Impedance |
| MONOCYTES | 8 | % | 2-10 | Electrical Impedance |
| BASOPHILS | 0.6 | % | <1-2 | Electrical Impedance |

ABSOLUTE LEUCOCYTE COUNT

| | | | | |
|-------------|---------|-------------|-----------|----------------------|
| NEUTROPHILS | 3392.86 | Cells/cu.mm | 2000-7000 | Electrical Impedance |
| LYMPHOCYTES | 1687.76 | Cells/cu.mm | 1000-3000 | Electrical Impedance |
| EOSINOPHILS | 202.3 | Cells/cu.mm | 20-500 | Electrical Impedance |
| MONOCYTES | 462.4 | Cells/cu.mm | 200-1000 | Electrical Impedance |
| BASOPHILS | 34.68 | Cells/cu.mm | 0-100 | Electrical Impedance |

| | | | | |
|---|-----------|-------------------------|---------------|---------------------------|
| PLATELET COUNT | 248000 | cells/cu.mm | 150000-410000 | Electrical impedance |
| ERYTHROCYTE SEDIMENTATION RATE (ESR) | 23 | mm at the end of 1 hour | 0-20 | Modified Westegren method |

PERIPHERAL SMEAR

RBCs: are normocytic normochromic

WBCs: are normal in total number with normal distribution and morphology.

PLATELETS: appear adequate in number.

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DEPARTMENT OF HAEMATOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
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HEMOPARASITES: negative

IMPRESSION: NORMOCYTIC NORMOCHROMIC BLOOD PICTURE.



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| UHID/MR No : CBAS.0000089566 | Reported : 28/Sep/2023 04:18PM |
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DEPARTMENT OF HAEMATOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
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BLOOD GROUP ABO AND RH FACTOR , WHOLE BLOOD EDTA

| | | | | |
|------------------|----------|--|--|-----------------------------|
| BLOOD GROUP TYPE | AB | | | Microplate Hemagglutination |
| Rh TYPE | Positive | | | Microplate Hemagglutination |



| | |
|-------------------------------|--|
| Patient Name : Mrs.G K PUSHPA | Collected : 28/Sep/2023 08:43AM |
| Age/Gender : 57 Y 6 M 0 D/F | Received : 28/Sep/2023 01:19PM |
| UHID/MR No : CBAS.0000089566 | Reported : 28/Sep/2023 01:48PM |
| Visit ID : CBASOPV95610 | Status : Final Report |
| Ref Doctor : Dr.SELF | Sponsor Name : ARCOFEMI HEALTHCARE LIMITED |
| Emp/Auth/TPA ID : 568998. | |

DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
|-----------|--------|------|-----------------|--------|
|-----------|--------|------|-----------------|--------|

| | | | | |
|--------------------------------------|----|-------|--------|------------|
| GLUCOSE, FASTING , NAF PLASMA | 94 | mg/dL | 70-100 | HEXOKINASE |
|--------------------------------------|----|-------|--------|------------|

Comment:

As per American Diabetes Guidelines, 2023

| Fasting Glucose Values in mg/dL | Interpretation |
|---------------------------------|----------------|
| 70-100 mg/dL | Normal |
| 100-125 mg/dL | Prediabetes |
| ≥126 mg/dL | Diabetes |
| <70 mg/dL | Hypoglycemia |

Note:

- The diagnosis of Diabetes requires a fasting plasma glucose of $> \text{ or } = 126 \text{ mg/dL}$ and/or a random / 2 hr post glucose value of $> \text{ or } = 200 \text{ mg/dL}$ on at least 2 occasions.
- Very high glucose levels ($>450 \text{ mg/dL}$ in adults) may result in Diabetic Ketoacidosis & is considered critical.



SIN No:PLF02033446

NABL renewal accreditation under process

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| Age/Gender : 57 Y 6 M 0 D/F | Received : 28/Sep/2023 11:47AM |
| UHID/MR No : CBAS.0000089566 | Reported : 28/Sep/2023 01:28PM |
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DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
|---|--------|-------|-----------------|------------|
| HBA1C, GLYCATED HEMOGLOBIN , WHOLE BLOOD EDTA | 5.7 | % | | HPLC |
| ESTIMATED AVERAGE GLUCOSE (eAG) , WHOLE BLOOD EDTA | 117 | mg/dL | | Calculated |

Comment:

Reference Range as per American Diabetes Association (ADA) 2023 Guidelines:

| REFERENCE GROUP | HBA1C % |
|------------------------|-----------|
| NON DIABETIC | <5.7 |
| PREDIABETES | 5.7 – 6.4 |
| DIABETES | ≥ 6.5 |
| DIABETICS | |
| EXCELLENT CONTROL | 6 – 7 |
| FAIR TO GOOD CONTROL | 7 – 8 |
| UNSATISFACTORY CONTROL | 8 – 10 |
| POOR CONTROL | >10 |

Note: Dietary preparation or fasting is not required.

- HbA1c is recommended by American Diabetes Association for Diagnosing Diabetes and monitoring Glycemic Control by American Diabetes Association guidelines 2023.
- Trends in HbA1c values is a better indicator of Glycemic control than a single test.
- Low HbA1c in Non-Diabetic patients are associated with Anemia (Iron Deficiency/Hemolytic), Liver Disorders, Chronic Kidney Disease. Clinical Correlation is advised in interpretation of low Values.
- Falsely low HbA1c (below 4%) may be observed in patients with clinical conditions that shorten erythrocyte life span or decrease mean erythrocyte age. HbA1c may not accurately reflect glycemic control when clinical conditions that affect erythrocyte survival are present.
- In cases of Interference of Hemoglobin variants in HbA1C, alternative methods (Fructosamine) estimation is recommended for Glycemic Control
 - A: HbF >25%
 - B: Homozygous Hemoglobinopathy.
 (Hb Electrophoresis is recommended method for detection of Hemoglobinopathy)



SIN No:EDT230088944

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DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
|-----------|--------|------|-----------------|--------|
|-----------|--------|------|-----------------|--------|

| LIPID PROFILE , SERUM | | | | |
|-----------------------|------|-------|--------|--------------------------------|
| TOTAL CHOLESTEROL | 154 | mg/dL | <200 | CHO-POD |
| TRIGLYCERIDES | 93 | mg/dL | <150 | GPO-POD |
| HDL CHOLESTEROL | 51 | mg/dL | 40-60 | Enzymatic Immuno-inhibition |
| NON-HDL CHOLESTEROL | 102 | mg/dL | <130 | Calculated |
| LDL CHOLESTEROL | 83.9 | mg/dL | <100 | Calculated |
| VLDL CHOLESTEROL | 18.6 | mg/dL | <30 | Calculated |
| CHOL / HDL RATIO | 3.01 | | 0-4.97 | Calculated |

Comment:

Reference Interval as per National Cholesterol Education Program (NCEP) Adult Treatment Panel III Report.

| | Desirable | Borderline High | High | Very High |
|---------------------|--|-----------------|-----------|-----------|
| TOTAL CHOLESTEROL | < 200 | 200 - 239 | ≥ 240 | |
| TRIGLYCERIDES | <150 | 150 - 199 | 200 - 499 | ≥ 500 |
| LDL | Optimal < 100 Near Optimal 100-129 | 130 - 159 | 160 - 189 | ≥ 190 |
| HDL | ≥ 60 | | | |
| NON-HDL CHOLESTEROL | Optimal <130; Above Optimal 130-159 | 160-189 | 190-219 | >220 |

1. Measurements in the same patient on different days can show physiological and analytical variations.
2. NCEP ATP III identifies non-HDL cholesterol as a secondary target of therapy in persons with high triglycerides.
3. Primary prevention algorithm now includes absolute risk estimation and lower LDL Cholesterol target levels to determine eligibility of drug therapy.
4. Low HDL levels are associated with Coronary Heart Disease due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
5. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.
6. VLDL, LDL Cholesterol Non HDL Cholesterol, CHOL/HDL RATIO, LDL/HDL RATIO are calculated parameters when Triglycerides are below 350mg/dl. When Triglycerides are more than 350 mg/dl LDL cholesterol is a direct measurement.

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DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
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SIN No:SE04494914

NABL renewal accreditation under process

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DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
|-----------|--------|------|-----------------|--------|
|-----------|--------|------|-----------------|--------|

| LIVER FUNCTION TEST (LFT) , SERUM | | | | |
|---------------------------------------|-------|-------|---------|--------------------|
| BILIRUBIN, TOTAL | 0.59 | mg/dL | 0.3–1.2 | DPD |
| BILIRUBIN CONJUGATED (DIRECT) | 0.12 | mg/dL | <0.2 | DPD |
| BILIRUBIN (INDIRECT) | 0.47 | mg/dL | 0.0-1.1 | Dual Wavelength |
| ALANINE AMINOTRANSFERASE (ALT/SGPT) | 7 | U/L | <35 | IFCC |
| ASPARTATE AMINOTRANSFERASE (AST/SGOT) | 19.0 | U/L | <35 | IFCC |
| ALKALINE PHOSPHATASE | 88.00 | U/L | 30-120 | IFCC |
| PROTEIN, TOTAL | 6.97 | g/dL | 6.6-8.3 | Biuret |
| ALBUMIN | 4.23 | g/dL | 3.5-5.2 | BROMO CRESOL GREEN |
| GLOBULIN | 2.74 | g/dL | 2.0-3.5 | Calculated |
| A/G RATIO | 1.54 | | 0.9-2.0 | Calculated |

Comment:

LFT results reflect different aspects of the health of the liver, i.e., hepatocyte integrity (AST & ALT), synthesis and secretion of bile (Bilirubin, ALP), cholestasis (ALP, GGT), protein synthesis (Albumin)

Common patterns seen:

1. Hepatocellular Injury:

- AST – Elevated levels can be seen. However, it is not specific to liver and can be raised in cardiac and skeletal injuries.
- ALT – Elevated levels indicate hepatocellular damage. It is considered to be most specific lab test for hepatocellular injury. Values also correlate well with increasing BMI.
- Disproportionate increase in AST, ALT compared with ALP.
- Bilirubin may be elevated.
- AST: ALT (ratio) – In case of hepatocellular injury AST: ALT > 1 In Alcoholic Liver Disease AST: ALT usually >2. This ratio is also seen to be increased in NAFLD, Wilson's's diseases, Cirrhosis, but the increase is usually not >2.

2. Cholestatic Pattern:

- ALP – Disproportionate increase in ALP compared with AST, ALT.
- Bilirubin may be elevated.
- ALP elevation also seen in pregnancy, impacted by age and sex.
- To establish the hepatic origin correlation with GGT helps. If GGT elevated indicates hepatic cause of increased ALP.

3. Synthetic function impairment:

- Albumin- Liver disease reduces albumin levels.
- Correlation with PT (Prothrombin Time) helps.

| | | | |
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DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
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DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

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|-----------|--------|------|-----------------|--------|

RENAL PROFILE/KIDNEY FUNCTION TEST (RFT/KFT) , SERUM

| | | | | |
|-----------------------|-------------|--------|-------------|--------------------------|
| CREATININE | 0.54 | mg/dL | 0.72 – 1.18 | JAFFE METHOD |
| UREA | 19.70 | mg/dL | 17-43 | GLDH, Kinetic Assay |
| BLOOD UREA NITROGEN | 9.2 | mg/dL | 8.0 - 23.0 | Calculated |
| URIC ACID | 5.55 | mg/dL | 2.6-6.0 | Uricase PAP |
| CALCIUM | 9.20 | mg/dL | 8.8-10.6 | Arsenazo III |
| PHOSPHORUS, INORGANIC | 3.58 | mg/dL | 2.5-4.5 | Phosphomolybdate Complex |
| SODIUM | 139 | mmol/L | 136–146 | ISE (Indirect) |
| POTASSIUM | 4.5 | mmol/L | 3.5–5.1 | ISE (Indirect) |
| CHLORIDE | 106 | mmol/L | 101–109 | ISE (Indirect) |



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DEPARTMENT OF BIOCHEMISTRY

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|-----------|--------|------|-----------------|--------|

| | | | | |
|--|-------|-----|-----|------|
| GAMMA GLUTAMYL TRANSPEPTIDASE (GGT) , SERUM | 21.00 | U/L | <38 | IFCC |
|--|-------|-----|-----|------|



| | |
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| UHID/MR No : CBAS.0000089566 | Reported : 28/Sep/2023 03:24PM |
| Visit ID : CBASOPV95610 | Status : Final Report |
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DEPARTMENT OF IMMUNOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
|-----------|--------|------|-----------------|--------|
|-----------|--------|------|-----------------|--------|

| THYROID PROFILE TOTAL (T3, T4, TSH) , SERUM | | | | |
|---|-------|--------|------------|------|
| TRI-IODOTHYRONINE (T3, TOTAL) | 1.17 | ng/mL | 0.64-1.52 | CMIA |
| THYROXINE (T4, TOTAL) | 8.89 | µg/dL | 4.87-11.72 | CMIA |
| THYROID STIMULATING HORMONE (TSH) | 2.220 | µIU/mL | 0.35-4.94 | CMIA |

Comment:

| For pregnant females | Bio Ref Range for TSH in uIU/ml (As per American Thyroid Association) |
|----------------------|---|
| First trimester | 0.1 - 2.5 |
| Second trimester | 0.2 – 3.0 |
| Third trimester | 0.3 – 3.0 |

1. TSH is a glycoprotein hormone secreted by the anterior pituitary. TSH activates production of T3 (Triiodothyronine) and its prohormone T4 (Thyroxine). Increased blood level of T3 and T4 inhibit production of TSH.
2. TSH is elevated in primary hypothyroidism and will be low in primary hyperthyroidism. Elevated or low TSH in the context of normal free thyroxine is often referred to as sub-clinical hypo- or hyperthyroidism respectively.
3. Both T4 & T3 provides limited clinical information as both are highly bound to proteins in circulation and reflects mostly inactive hormone. Only a very small fraction of circulating hormone is free and biologically active.
4. Significant variations in TSH can occur with circadian rhythm, hormonal status, stress, sleep deprivation, medication & circulating antibodies.

| TSH | T3 | T4 | FT4 | Conditions |
|-------|------|------|------|---|
| High | Low | Low | Low | Primary Hypothyroidism, Post Thyroidectomy, Chronic Autoimmune Thyroiditis |
| High | N | N | N | Subclinical Hypothyroidism, Autoimmune Thyroiditis, Insufficient Hormone Replacement Therapy. |
| N/Low | Low | Low | Low | Secondary and Tertiary Hypothyroidism |
| Low | High | High | High | Primary Hyperthyroidism, Goitre, Thyroiditis, Drug effects, Early Pregnancy |
| Low | N | N | N | Subclinical Hyperthyroidism |
| Low | Low | Low | Low | Central Hypothyroidism, Treatment with Hyperthyroidism |
| Low | N | High | High | Thyroiditis, Interfering Antibodies |
| N/Low | High | N | N | T3 Thyrotoxicosis, Non thyroidal causes |
| High | High | High | High | Pituitary Adenoma; TSHoma/Thyrotropinoma |



SIN No:SPL23138054

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DEPARTMENT OF CLINICAL PATHOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HC STARTER FEMALE - PAN INDIA - FY2324

| Test Name | Result | Unit | Bio. Ref. Range | Method |
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COMPLETE URINE EXAMINATION (CUE) , URINE

PHYSICAL EXAMINATION

| | | | | |
|--------------|-------------|--|-------------|------------------|
| COLOUR | PALE YELLOW | | PALE YELLOW | Visual |
| TRANSPARENCY | HAZY | | CLEAR | Visual |
| pH | 5.5 | | 5-7.5 | DOUBLE INDICATOR |
| SP. GRAVITY | 1.025 | | 1.002-1.030 | Bromothymol Blue |

BIOCHEMICAL EXAMINATION

| | | | | |
|------------------------|-------------|--|----------|----------------------------|
| URINE PROTEIN | NEGATIVE | | NEGATIVE | PROTEIN ERROR OF INDICATOR |
| GLUCOSE | NEGATIVE | | NEGATIVE | GLUCOSE OXIDASE |
| URINE BILIRUBIN | NEGATIVE | | NEGATIVE | AZO COUPLING REACTION |
| URINE KETONES (RANDOM) | NEGATIVE | | NEGATIVE | SODIUM NITRO PRUSSIDE |
| UROBILINOGEN | NORMAL | | NORMAL | MODIFIED EHRlich REACTION |
| BLOOD | NEGATIVE | | NEGATIVE | Peroxidase |
| NITRITE | NEGATIVE | | NEGATIVE | Diazotization |
| LEUCOCYTE ESTERASE | POSITIVE ++ | | NEGATIVE | LEUCOCYTE ESTERASE |

CENTRIFUGED SEDIMENT WET MOUNT AND MICROSCOPY

| | | | | |
|------------------|--------|------|------------------|------------|
| PUS CELLS | 10-15 | /hpf | 0-5 | Microscopy |
| EPITHELIAL CELLS | 3-4 | /hpf | <10 | MICROSCOPY |
| RBC | NIL | /hpf | 0-2 | MICROSCOPY |
| CASTS | NIL | | 0-2 Hyaline Cast | MICROSCOPY |
| CRYSTALS | ABSENT | | ABSENT | MICROSCOPY |

*** End Of Report ***

Result/s to Follow:
PERIPHERAL SMEAR

| | |
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DEPARTMENT OF CLINICAL PATHOLOGY

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Dr PRASANNA B.K.P
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