



Patient	Name	: Mr.VICKY NAMEDO	Collected	: 29/Mar/2024	11:08AMExpertise.	Empowering you.
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 Age/Gender
 : 31 Y 1 M 13 D/M
 Received
 : 29/Mar/2024 12:30PM

 UHID/MR No
 : CAOP.0000000117
 Reported
 : 29/Mar/2024 01:42PM

Visit ID : CAOPOPV131 | Status : Final Report

Ref Doctor : Dr.SELF Sponsor Name : ARCOFEMI HEALTHCARE LIMITED Emp/Auth/TPA ID : 186137

## **DEPARTMENT OF HAEMATOLOGY**

PERIPHERAL S	PERIPHERAL SMEAR , WHOLE BLOOD EDTA				
RBCs	Show mild anisocytosis, are predominantly Normocytic Normochromic.				
WBCs	Normal in number and morphology Differential count is within normal limits				
Platelets	Adequate in number, verified on smear				
	No Hemoparasites seen in smears examined.				
Impression	Normal peripheral smear study				
Advice	Clinical correlation				



Dr.Shivangi Chauhan M.B.B.S,M.D(Pathology) Consultant Pathologist



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# **DEPARTMENT OF HAEMATOLOGY**

## ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
IEMOGRAM , WHOLE BLOOD EDTA				
HAEMOGLOBIN	14.3	g/dL	13-17	Spectrophotometer
PCV	42.40	%	40-50	Electronic pulse & Calculation
RBC COUNT	4.77	Million/cu.mm	4.5-5.5	Electrical Impedence
MCV	89	fL	83-101	Calculated
MCH	29.9	pg	27-32	Calculated
MCHC	33.6	g/dL	31.5-34.5	Calculated
R.D.W	15.2	%	11.6-14	Calculated
TOTAL LEUCOCYTE COUNT (TLC)	8,200	cells/cu.mm	4000-10000	Electrical Impedanc
DIFFERENTIAL LEUCOCYTIC COUNT (I	DLC)			
NEUTROPHILS	70	%	40-80	Electrical Impedanc
LYMPHOCYTES	25	%	20-40	Electrical Impedanc
EOSINOPHILS	02	%	1-6	Electrical Impedanc
MONOCYTES	< 03	%	2-10	Electrical Impedanc
BASOPHILS	00	%	<1-2	Electrical Impedanc
ABSOLUTE LEUCOCYTE COUNT				
NEUTROPHILS	5740	Cells/cu.mm	2000-7000	Calculated
LYMPHOCYTES	2050	Cells/cu.mm	1000-3000	Calculated
EOSINOPHILS	164	Cells/cu.mm	20-500	Calculated
MONOCYTES	246	Cells/cu.mm	200-1000	Calculated
Neutrophil lymphocyte ratio (NLR)	2.8		0.78- 3.53	Calculated
PLATELET COUNT	246000	cells/cu.mm	150000-410000	Electrical impedenc
ERYTHROCYTE SEDIMENTATION RATE (ESR)	07	mm at the end of 1 hour	0-15	Modified Westergre
PERIPHERAL SMEAR				

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## **DEPARTMENT OF HAEMATOLOGY**

## ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method		
BLOOD GROUP ABO AND RH FACTOR, WHOLE BLOOD EDTA						
BLOOD GROUP TYPE	0			Gel agglutination		
Rh TYPE	POSITIVE			Gel agglutination		



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#### **DEPARTMENT OF BIOCHEMISTRY**

### ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
GLUCOSE, FASTING, NAF PLASMA	83	mg/dL	70-100	GOD - POD

#### **Comment:**

Emp/Auth/TPA ID

As per American Diabetes Guidelines, 2023

: 186137

115 per rimerican Diabetes Guidennes, 2020			
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:

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

Test Name	Result	Unit	Bio. Ref. Range	Method
GLUCOSE, POST PRANDIAL (PP), 2 HOURS, SODIUM FLUORIDE PLASMA (2 HR)	88	mg/dL	70-140	GOD - POD

### **Comment:**

It is recommended that FBS and PPBS should be interpreted with respect to their Biological reference ranges and not with each other.

Conditions which may lead to lower postprandial glucose levels as compared to fasting glucose levels may be due to reactive hypoglycemia, dietary meal content, duration or timing of sampling after food digestion and absorption, medications such as insulin preparations, sulfonylureas, amylin analogues, or conditions such as overproduction of insulin.

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### **DEPARTMENT OF BIOCHEMISTRY**

### ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method		
HBA1C (GLYCATED HEMOGLOBIN), WHOLE BLOOD EDTA						
HBA1C, GLYCATED HEMOGLOBIN	5.6	%		HPLC		
ESTIMATED AVERAGE GLUCOSE (eAG)	114	mg/dL		Calculated		

#### **Comment:**

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

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REFERENCE GROUP	HBA1C %
NON DIABETIC	<5.7
PREDIABETES	5.7 - 6.4
DIABETES	≥6.5
DIABETICS	11.
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.

- 1. HbA1C is recommended by American Diabetes Association for Diagnosing Diabetes and monitoring Glycemic Control by American Diabetes Association guidelines 2023.
- 2. Trends in HbA1C values is a better indicator of Glycemic control than a single test.
- 3. 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.
- 4. 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.
- 5. In cases of Interference of Hemoglobin variants in HbA1C, alternative methods (Fructosamine) estimation is recommended for Glycemic Control A: HbF >25%

Dr. Tanish Mandal

M.B.B.S, M.D(Pathology)

Consultant Pathologist

B: Homozygous Hemoglobinopathy.

(Hb Electrophoresis is recommended method for detection of Hemoglobinopathy)

Dr.Aiman Jafri B.Sc(Biotechnology),

M.Sc(Toxicology),Ph.D(Biochemistry)

լ։ Consultant Molecular Biologist and Biochemist

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#### **DEPARTMENT OF BIOCHEMISTRY**

### ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method			
LIPID PROFILE, SERUM							
TOTAL CHOLESTEROL	154	mg/dL	<200	CHE/CHO/POD			
TRIGLYCERIDES	179	mg/dL	<150				
HDL CHOLESTEROL	26	mg/dL	>40	CHE/CHO/POD			
NON-HDL CHOLESTEROL	128	mg/dL	<130	Calculated			
LDL CHOLESTEROL	92.2	mg/dL	<100	Calculated			
VLDL CHOLESTEROL	35.8	mg/dL	<30	Calculated			
CHOL / HDL RATIO	5.92		0-4.97	Calculated			
ATHEROGENIC INDEX (AIP)	0.48		<0.11	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
ATHEROGENIC INDEX(AIP)	<0.11	0.12 - 0.20	>0.21	

## Note:

- 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

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#### DEPARTMENT OF BIOCHEMISTRY

### ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

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 400 mg/dl. When

Triglycerides are more than 400 mg/dl LDL cholesterol is a direct measurement.

7) Triglycerides and HDL-cholesterol in Atherogenic index (AIP) reflect the balance between the atherogenic and protective lipoproteins. Clinical studies have shown that AIP (log (TG/HDL) & values used are in mmol/L) predicts cardiovascular risk and a useful measure of response to treatment (pharmacological intervention).



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#### **DEPARTMENT OF BIOCHEMISTRY**

### ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
LIVER FUNCTION TEST (LFT), SERUM				
BILIRUBIN, TOTAL	0.20	mg/dL	0.1-1.2	Azobilirubin
BILIRUBIN CONJUGATED (DIRECT)	0.10	mg/dL	0.1-0.4	DIAZO DYE
BILIRUBIN (INDIRECT)	0.10	mg/dL	0.0-1.1	Dual Wavelength
ALANINE AMINOTRANSFERASE (ALT/SGPT)	26	U/L	4-44	JSCC
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	21.0	U/L	8-38	JSCC
ALKALINE PHOSPHATASE	94.00	U/L	32-111	IFCC
PROTEIN, TOTAL	7.20	g/dL	6.7-8.3	BIURET
ALBUMIN	3.80	g/dL	3.8-5.0	BROMOCRESOL GREEN
GLOBULIN	3.40	g/dL	2.0-3.5	Calculated
A/G RATIO	1.12	14/1	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 > 1In Alcoholic Liver Disease AST: ALT usually >2. This ratio is also seen to be increased in NAFLD, Wilsons'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 ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
RENAL PROFILE/KIDNEY FUNCTION	TEST (RFT/KFT), SEF	RUM		
CREATININE	0.63	mg/dL	0.6-1.1	ENZYMATIC METHOD
UREA	13.50	mg/dL	17-48	Urease
BLOOD UREA NITROGEN	6.3	mg/dL	8.0 - 23.0	Calculated
URIC ACID	5.90	mg/dL	4.0-7.0	URICASE
CALCIUM	9.00	mg/dL	8.4-10.2	CPC
PHOSPHORUS, INORGANIC	3.30	mg/dL	2.6-4.4	PNP-XOD
SODIUM	140	mmol/L	135-145	Direct ISE
POTASSIUM	3.9	mmol/L	3.5-5.1	Direct ISE
CHLORIDE	101	mmol/L	98-107	Direct ISE
PROTEIN, TOTAL	7.20	g/dL	6.7-8.3	BIURET
ALBUMIN	3.80	g/dL	3.8-5.0	BROMOCRESOL GREEN
GLOBULIN	3.40	g/dL	2.0-3.5	Calculated
A/G RATIO	1.12		0.9-2.0	Calculated

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## ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
GAMMA GLUTAMYL TRANSPEPTIDASE (GGT) , SERUM	16.00	U/L	16-73	Glycylglycine Kinetic method



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### **DEPARTMENT OF IMMUNOLOGY**

### ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
THYROID PROFILE TOTAL (T3, T4, TSH	I) , SERUM			
TRI-IODOTHYRONINE (T3, TOTAL)	1.25	ng/mL	0.7-2.04	CLIA
THYROXINE (T4, TOTAL)	10.94	μg/dL	5.48-14.28	CLIA
THYROID STIMULATING HORMONE (TSH)	1.100	μIU/mL	0.34-5.60	CLIA

### **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	Т3	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

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## **DEPARTMENT OF CLINICAL PATHOLOGY**

## ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
COMPLETE URINE EXAMINATION (	CUE) , URINE			
PHYSICAL EXAMINATION				
COLOUR	PALE YELLOW		PALE YELLOW	Visual
TRANSPARENCY	CLEAR		CLEAR	Visual
pH	6.0		5-7.5	Bromothymol Blue
SP. GRAVITY	1.020		1.002-1.030	Dipstick
BIOCHEMICAL EXAMINATION				
URINE PROTEIN	NEGATIVE	-	NEGATIVE	PROTEIN ERROR OF INDICATOR
GLUCOSE	NEGATIVE		NEGATIVE	GOD-POD
URINE BILIRUBIN	NEGATIVE		NEGATIVE	AZO COUPLING
URINE KETONES (RANDOM)	NEGATIVE		NEGATIVE	NITROPRUSSIDE
UROBILINOGEN	NORMAL		NORMAL	EHRLICH
NITRITE	NEGATIVE		NEGATIVE	Dipstick
LEUCOCYTE ESTERASE	NEGATIVE		NEGATIVE	PYRROLE HYDROLYSIS
CENTRIFUGED SEDIMENT WET M	OUNT AND MICROSCOP	Υ //		
PUS CELLS	2-3	/hpf	0-5	Microscopy
EPITHELIAL CELLS	1-2	/hpf	<10	MICROSCOPY
RBC	NILOHOL	/hpf	0-2	MICROSCOPY
CASTS	NIL		0-2 Hyaline Cast	MICROSCOPY
CRYSTALS	ABSENT		ABSENT	MICROSCOPY

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Ref Doctor : Dr.SELF Sponsor Name : ARCOFEMI HEALTHCARE LIMITED Emp/Auth/TPA ID : 186137

# **DEPARTMENT OF CLINICAL PATHOLOGY**

## ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
URINE GLUCOSE(POST PRANDIAL)	NEGATIVE		NEGATIVE	Dipstick
Test Name	Result	Unit	Bio. Ref. Range	Method

\*\*\* End Of Report \*\*\*



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Dr.Shivangi Chauhan M.B.B.S,M.D(Pathology) Consultant Pathologist

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