

Patient Name : Mr.JOHN WESLEY PAULRAJ	Collected : 09/Dec/2023 08:58AM
Age/Gender : 31 Y 0 M 21 D/M	Received : 09/Dec/2023 12:32PM
UHID/MR No : CVEL.0000139789	Reported : 09/Dec/2023 02:15PM
Visit ID : CVELOPV194670	Status : Final Report
Ref Doctor : Dr.SELF	Sponsor Name : ARCOFEMI HEALTHCARE LIMITED
Emp/Auth/TPA ID : ADHAAR NO 5566 1065 0266	

DEPARTMENT OF HAEMATOLOGY

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

PERIPHERAL SMEAR , WHOLE BLOOD EDTA

METHODOLOGY	: Microscopic.
RBC MORPHOLOGY	: Predominantly normocytic normochromic RBC's noted.
WBC MORPHOLOGY	: Normal in number, morphology and distribution. No abnormal cells seen.
PLATELETS	: Adequate in number.
PARASITES	: No haemoparasites seen.
IMPRESSION	: Normocytic normochromic blood picture.
NOTE/ COMMENT	: Please correlate clinically.



SIN No: BED230303716

This test has been performed at Apollo Health and Lifestyle Ltd - RRL ASHOK NAGAR

This test has been performed at Apollo Health and Lifestyle Ltd - Chennai, Diagnostics Laboratory.

Apollo Health and Lifestyle Limited (CIN - U85110TG2000PLC115819)

Regd. Office: 1-10-60/62, Ashoka Raghupathi Chambers, 5th Floor, Begumpet, Hyderabad, Telangana - 500 016 |
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Phone - 044-26224504 / 05



APOLLO CLINICS NETWORK

Telangana: Hyderabad (AS Rao Nagar | Chanda Nagar | Kondapur | Nallakunta | Nizampet | Manikonda | Uppal) **Andhra Pradesh:** Vizag (Seethamma Peta) **Karnataka:** Bangalore (Basavanagudi | Bellandur | Electronics City | Fraser Town | HSR Layout | Indira Nagar | JP Nagar | Kundalahalli | Koramangala | Sarjapur Road) **Mysore** (VV Mohalla) **Tamilnadu:** Chennai (Annanagar | Kotturpuram | Mogappair | T Nagar | Valasaravakkam | Velachery) **Maharashtra:** Pune (Aundh | Nigdi Pradhikaran | Viman Nagar | Wanowrie) **Uttar Pradesh:** Ghaziabad (Indrapuram) **Gujarat:** Ahmedabad (Satellite) **Punjab:** Amritsar (Court Road) **Haryana:** Faridabad (Railway Station Road)

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Test Name	Result	Unit	Bio. Ref. Range	Method
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HEMOGRAM , WHOLE BLOOD EDTA

HAEMOGLOBIN	15.2	g/dL	13-17	Spectrophotometer
PCV	44.60	%	40-50	Electronic pulse & Calculation
RBC COUNT	4.96	Million/cu.mm	4.5-5.5	Electrical Impedence
MCV	89.8	fL	83-101	Calculated
MCH	30.6	pg	27-32	Calculated
MCHC	34.1	g/dL	31.5-34.5	Calculated
R.D.W	13.2	%	11.6-14	Calculated
TOTAL LEUCOCYTE COUNT (TLC)	6,700	cells/cu.mm	4000-10000	Electrical Impedence

DIFFERENTIAL LEUCOCYTIC COUNT (DLC)

NEUTROPHILS	40.8	%	40-80	Electrical Impedence
LYMPHOCYTES	45.9	%	20-40	Electrical Impedence
EOSINOPHILS	5.5	%	1-6	Electrical Impedence
MONOCYTES	6.9	%	2-10	Electrical Impedence
BASOPHILS	0.9	%	<1-2	Electrical Impedence

ABSOLUTE LEUCOCYTE COUNT

NEUTROPHILS	2733.6	Cells/cu.mm	2000-7000	Calculated
LYMPHOCYTES	3075.3	Cells/cu.mm	1000-3000	Calculated
EOSINOPHILS	368.5	Cells/cu.mm	20-500	Calculated
MONOCYTES	462.3	Cells/cu.mm	200-1000	Calculated
BASOPHILS	60.3	Cells/cu.mm	0-100	Calculated

PLATELET COUNT	255000	cells/cu.mm	150000-410000	Electrical impedence
ERYTHROCYTE SEDIMENTATION RATE (ESR)	4	mm at the end of 1 hour	0-15	Modified Westergren

PERIPHERAL SMEAR				
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IMPRESSION : Normocytic normochromic blood picture.

NOTE/ COMMENT : Please correlate clinically.



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BLOOD GROUP ABO AND RH FACTOR , WHOLE BLOOD EDTA

BLOOD GROUP TYPE	B			Microplate Hemagglutination
Rh TYPE	Positive			Microplate Hemagglutination

PLEASE NOTE THIS SAMPLE HAS BEEN TESTED ONLY FOR ABO MAJOR GROUPING AND ANTI D ONLY



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Visit ID : CVELOPV194670	Status : Final Report
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DEPARTMENT OF BIOCHEMISTRY

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

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GLUCOSE, FASTING , NAF PLASMA	92	mg/dL	70-100	HEXOKINASE
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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 > or = 126 mg/dL and/or a random / 2 hr post glucose value of > or = 200 mg/dL on at least 2 occasions.
- Very high glucose levels (>450 mg/dL in adults) may result in Diabetic Ketoacidosis & is considered critical.



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UHID/MR No : CVEL.0000139789	Reported : 09/Dec/2023 05:55PM
Visit ID : CVELOPV194670	Status : Final Report
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Test Name	Result	Unit	Bio. Ref. Range	Method
GLUCOSE, POST PRANDIAL (PP), 2 HOURS , SODIUM FLUORIDE PLASMA (2 HR)	85	mg/dL	70-140	HEXOKINASE

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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Test Name	Result	Unit	Bio. Ref. Range	Method
HBA1C, GLYCATED HEMOGLOBIN , WHOLE BLOOD EDTA	5.8	%		HPLC
ESTIMATED AVERAGE GLUCOSE (eAG) , WHOLE BLOOD EDTA	120	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)



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LIPID PROFILE , SERUM

TOTAL CHOLESTEROL	179	mg/dL	<200	CHO-POD
TRIGLYCERIDES	213	mg/dL	<150	GPO-POD
HDL CHOLESTEROL	31	mg/dL	40-60	Enzymatic Immunoinhibition
NON-HDL CHOLESTEROL	148	mg/dL	<130	Calculated
LDL CHOLESTEROL	105.4	mg/dL	<100	Calculated
VLDL CHOLESTEROL	42.6	mg/dL	<30	Calculated
CHOL / HDL RATIO	5.77		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

- Measurements in the same patient on different days can show physiological and analytical variations.
- NCEP ATP III identifies non-HDL cholesterol as a secondary target of therapy in persons with high triglycerides.
- Primary prevention algorithm now includes absolute risk estimation and lower LDL Cholesterol target levels to determine eligibility of drug therapy.
- 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.
- 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.
- 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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LIVER FUNCTION TEST (LFT) , SERUM

BILIRUBIN, TOTAL	0.70	mg/dL	0.3–1.2	DPD
BILIRUBIN CONJUGATED (DIRECT)	0.14	mg/dL	<0.2	DPD
BILIRUBIN (INDIRECT)	0.56	mg/dL	0.0-1.1	Dual Wavelength
ALANINE AMINOTRANSFERASE (ALT/SGPT)	112	U/L	<50	IFCC
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	50.0	U/L	<50	IFCC
ALKALINE PHOSPHATASE	77.00	U/L	30-120	IFCC
PROTEIN, TOTAL	7.60	g/dL	6.6-8.3	Biuret
ALBUMIN	4.80	g/dL	3.5-5.2	BROMO CRESOL GREEN
GLOBULIN	2.80	g/dL	2.0-3.5	Calculated
A/G RATIO	1.71		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 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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RENAL PROFILE/KIDNEY FUNCTION TEST (RFT/KFT) , SERUM

CREATININE	0.98	mg/dL	0.72 – 1.18	JAFFE METHOD
UREA	18.00	mg/dL	17-43	GLDH, Kinetic Assay
BLOOD UREA NITROGEN	8.4	mg/dL	8.0 - 23.0	Calculated
URIC ACID	6.30	mg/dL	3.5–7.2	Uricase PAP
CALCIUM	9.80	mg/dL	8.8-10.6	Arsenazo III
PHOSPHORUS, INORGANIC	3.80	mg/dL	2.5-4.5	Phosphomolybdate Complex
SODIUM	140	mmol/L	136–146	ISE (Indirect)
POTASSIUM	4.4	mmol/L	3.5–5.1	ISE (Indirect)
CHLORIDE	102	mmol/L	101–109	ISE (Indirect)



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GAMMA GLUTAMYL TRANSPEPTIDASE (GGT) , SERUM	27.00	U/L	<55	IFCC



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Patient Name : Mr.JOHN WESLEY PAULRAJ	Collected : 09/Dec/2023 08:58AM
Age/Gender : 31 Y 0 M 21 D/M	Received : 09/Dec/2023 12:33PM
UHID/MR No : CVEL.0000139789	Reported : 09/Dec/2023 01:54PM
Visit ID : CVELOPV194670	Status : Final Report
Ref Doctor : Dr.SELF	Sponsor Name : ARCOFEMI HEALTHCARE LIMITED
Emp/Auth/TPA ID : ADHAAR NO 5566 1065 0266	

DEPARTMENT OF IMMUNOLOGY

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

Test Name	Result	Unit	Bio. Ref. Range	Method
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THYROID PROFILE TOTAL (T3, T4, TSH) , SERUM

TRI-iodothyronine (T3, TOTAL)	0.84	ng/mL	0.7-2.04	CLIA
THYROXINE (T4, TOTAL)	5.30	µg/dL	5.48-14.28	CLIA
THYROID STIMULATING HORMONE (TSH)	2.708	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	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



Patient Name : Mr.JOHN WESLEY PAULRAJ	Collected : 09/Dec/2023 08:58AM
Age/Gender : 31 Y 0 M 21 D/M	Received : 09/Dec/2023 01:36PM
UHID/MR No : CVEL.0000139789	Reported : 09/Dec/2023 02:59PM
Visit ID : CVELOPV194670	Status : Final Report
Ref Doctor : Dr.SELF	Sponsor Name : ARCOFEMI HEALTHCARE LIMITED
Emp/Auth/TPA ID : ADHAAR NO 5566 1065 0266	

DEPARTMENT OF CLINICAL PATHOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY ANNUAL PLUS MALE - 2D ECHO - 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	CLEAR		CLEAR	Visual
pH	7.0		5-7.5	DOUBLE INDICATOR
SP. GRAVITY	1.005		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	NEGATIVE		NEGATIVE	LEUCOCYTE ESTERASE

CENTRIFUGED SEDIMENT WET MOUNT AND MICROSCOPY

PUS CELLS	1-3	/hpf	0-5	Microscopy
EPITHELIAL CELLS	1-2	/hpf	<10	MICROSCOPY
RBC	NIL	/hpf	0-2	MICROSCOPY
CASTS	ABSENT		0-2 Hyaline Cast	MICROSCOPY
CRYSTALS	ABSENT		ABSENT	MICROSCOPY



Patient Name : Mr.JOHN WESLEY PAULRAJ	Collected : 09/Dec/2023 08:58AM
Age/Gender : 31 Y 0 M 21 D/M	Received : 09/Dec/2023 01:37PM
UHID/MR No : CVEL.0000139789	Reported : 09/Dec/2023 03:58PM
Visit ID : CVELOPV194670	Status : Final Report
Ref Doctor : Dr.SELF	Sponsor Name : ARCOFEMI HEALTHCARE LIMITED
Emp/Auth/TPA ID : ADHAAR NO 5566 1065 0266	

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
URINE GLUCOSE(FASTING)	NEGATIVE		NEGATIVE	Dipstick

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



DR.R.SRIVATSAN
M.D.(Biochemistry)



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

