

: Spouse - 186137



Patient	Name	: Mrs.RASHI NAMDEO	Collected	: 29/Mar/2024	11:22AMExpertise.	Empowering you.
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 Age/Gender
 : 28 Y 5 M 5 D/F
 Received
 : 29/Mar/2024 12:38PM

 UHID/MR No
 : CAOP.0000000118
 Reported
 : 29/Mar/2024 01:43PM

Visit ID : CAOPOPV132 | Status : Final Report

Ref Doctor : Dr.SELF Sponsor Name : ARCOFEMI HEALTHCARE LIMITED

DEPARTMENT OF HAEMATOLOGY

PERIPHERAL	PERIPHERAL SMEAR, WHOLE BLOOD EDTA					
RBCs	Predominantly Normocytic Normochromic					
WBCs	Are essentially unremarkable. No abnormal cells seen.					
Platelets	Adequate in number, verified on smear					
	No Hemoparasites seen in smears examined.					
Impression	Normal peripheral smear study					
Advice	Clinical correlation					



Page 1 of 13

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



Apollo Health and Lifestyle Limited

Hyderabad, Telangana State 500038

Email ID: <u>customer.care@apollodiagnostics.in</u>



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DEPARTMENT OF HAEMATOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method	
HEMOGRAM, WHOLE BLOOD EDTA		-			
HAEMOGLOBIN	12	g/dL	12-15	Spectrophotometer	
PCV	36.30	%	36-46	Electronic pulse & Calculation	
RBC COUNT	3.96	Million/cu.mm	3.8-4.8	Electrical Impedence	
MCV	92	fL	83-101	Calculated	
MCH	30.4	pg	27-32	Calculated	
MCHC	33.1	g/dL	31.5-34.5	Calculated	
R.D.W	13.6	%	11.6-14	Calculated	
TOTAL LEUCOCYTE COUNT (TLC)	6,300	cells/cu.mm	4000-10000	Electrical Impedance	
DIFFERENTIAL LEUCOCYTIC COUNT (I	DLC)				
NEUTROPHILS	65	%	40-80	Electrical Impedance	
LYMPHOCYTES	30	%	20-40	Electrical Impedance	
EOSINOPHILS	02	%	1-6	Electrical Impedance	
MONOCYTES	03	%	2-10	Electrical Impedance	
BASOPHILS	00	%	<1-2	Electrical Impedance	
ABSOLUTE LEUCOCYTE COUNT					
NEUTROPHILS	4095	Cells/cu.mm	2000-7000	Calculated	
LYMPHOCYTES	1890	Cells/cu.mm	1000-3000	Calculated	
EOSINOPHILS	126	Cells/cu.mm	20-500	Calculated	
MONOCYTES	189	Cells/cu.mm	200-1000	Calculated	
Neutrophil lymphocyte ratio (NLR)	2.17		0.78- 3.53	Calculated	
PLATELET COUNT	267000	cells/cu.mm	150000-410000	Electrical impedence	
ERYTHROCYTE SEDIMENTATION RATE (ESR)	10	mm at the end of 1 hour	0-20	Modified Westergre	
PERIPHERAL SMEAR					

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DEPARTMENT OF HAEMATOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HEALTH ANNUAL PLUS CHECK - FEMALE - 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	В			Gel agglutination		
Rh TYPE	POSITIVE			Gel agglutination		



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Patient Name : Mrs.RASHI NAMDEO : 29/Mar/2024 02:15PMExpertise. Empowering you.

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DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
GLUCOSE, FASTING, NAF PLASMA	78	mg/dL	70-100	GOD - POD

Comment:

Emp/Auth/TPA ID

As per American Diabetes Guidelines, 2023

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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)	87	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 HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method	
HBA1C (GLYCATED HEMOGLOBIN), WHOLE BLOOD EDTA					
HBA1C, GLYCATED HEMOGLOBIN	4.4	%		HPLC	
ESTIMATED AVERAGE GLUCOSE (eAG)	80	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	1,
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),

SIN No:EDT240040632

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

Consultant Molecular Biologist and Biochemist

2C/14, New Rohtak Rd, Block 66a, Karol Bagh, New Delhi-110005

Page 5 of 13

Dr.Tanish Mandal

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

Consultant Pathologist

(CIN-U85110TG2000PLC115819)

Regd. Office: 7-1-617/A, 615 and 616, IMPERIAL TOWERS 7t

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DEPARTMENT OF BIOCHEMISTRY

ARCOFEMI - MEDIWHEEL - FULL BODY HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
LIPID PROFILE , SERUM				
TOTAL CHOLESTEROL	120	mg/dL	<200	CHE/CHO/POD
TRIGLYCERIDES	34	mg/dL	<150	
HDL CHOLESTEROL	55	mg/dL	>40	CHE/CHO/POD
NON-HDL CHOLESTEROL	65	mg/dL	<130	Calculated
LDL CHOLESTEROL	58.2	mg/dL	<100	Calculated
VLDL CHOLESTEROL	6.8	mg/dL	<30	Calculated
CHOL / HDL RATIO	2.18		0-4.97	Calculated
ATHEROGENIC INDEX (AIP)	0.01		<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 (OHO11A)			
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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SIN No:SE04680911

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ARCOFEMI - MEDIWHEEL - FULL BODY HEALTH ANNUAL PLUS CHECK - FEMALE - 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.

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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 HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method				
LIVER FUNCTION TEST (LFT) , SERUM								
BILIRUBIN, TOTAL	0.40	mg/dL	0.1-1.2	Azobilirubin				
BILIRUBIN CONJUGATED (DIRECT)	0.10	mg/dL	0.1-0.4	DIAZO DYE				
BILIRUBIN (INDIRECT)	0.30	mg/dL	0.0-1.1	Dual Wavelength				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	12	U/L	4-44	JSCC				
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	15.0	U/L	8-38	JSCC				
ALKALINE PHOSPHATASE	55.00	U/L	32-111	IFCC				
PROTEIN, TOTAL	6.90	g/dL	6.7-8.3	BIURET				
ALBUMIN	3.40	g/dL	3.8-5.0	BROMOCRESOL GREEN				
GLOBULIN	3.50	g/dL	2.0-3.5	Calculated				
A/G RATIO	0.97	14	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:

 \bullet ALP – Disproportionate increase in ALP compared with AST, ALT.

: Spouse - 186137

- 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 HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method			
RENAL PROFILE/KIDNEY FUNCTION TEST (RFT/KFT) , SERUM							
CREATININE	0.57	mg/dL	0.4-1.1	ENZYMATIC METHOD			
UREA	13.50	mg/dL	17-48	Urease			
BLOOD UREA NITROGEN	6.3	mg/dL	8.0 - 23.0	Calculated			
URIC ACID	1.30	mg/dL	3.0-5.5	URICASE			
CALCIUM	9.00	mg/dL	8.4-10.2	CPC			
PHOSPHORUS, INORGANIC	3.70	mg/dL	2.6-4.4	PNP-XOD			
SODIUM	135	mmol/L	135-145	Direct ISE			
POTASSIUM	4.1	mmol/L	3.5-5.1	Direct ISE			
CHLORIDE	101	mmol/L	98-107	Direct ISE			
PROTEIN, TOTAL	6.90	g/dL	6.7-8.3	BIURET			
ALBUMIN	3.40	g/dL	3.8-5.0	BROMOCRESOL GREEN			
GLOBULIN	3.50	g/dL	2.0-3.5	Calculated			
A/G RATIO	0.97		0.9-2.0	Calculated			

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ARCOFEMI - MEDIWHEEL - FULL BODY HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
GAMMA GLUTAMYL TRANSPEPTIDASE (GGT) , SERUM	11.00	U/L	16-73	Glycylglycine Kinetic method



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DEPARTMENT OF IMMUNOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method			
THYROID PROFILE TOTAL (T3, T4, TSH), SERUM							
TRI-IODOTHYRONINE (T3, TOTAL)	0.94	ng/mL	0.7-2.04	CLIA			
THYROXINE (T4, TOTAL)	9.36	μg/dL	5.48-14.28	CLIA			
THYROID STIMULATING HORMONE (TSH)	1.420	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

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Test Name	Result	Unit	Bio. Ref. Range	Method
OMPLETE URINE EXAMINATION (CUE) , URINE			
PHYSICAL EXAMINATION				
COLOUR	PALE YELLOW		PALE YELLOW	Visual
TRANSPARENCY	CLEAR		CLEAR	Visual
рН	6.5		5-7.5	Bromothymol Blue
SP. GRAVITY	1.030		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 MICROSCOPY	r //		
PUS CELLS	6-8	/hpf	0-5	Microscopy
EPITHELIAL CELLS	3-4	/hpf	<10	MICROSCOPY
RBC	NILOYO	/hpf	0-2	MICROSCOPY
CASTS	NIL		0-2 Hyaline Cast	MICROSCOPY
CRYSTALS	ABSENT		ABSENT	MICROSCOPY

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



Apollo Health and Lifestyle Limited

Registered Office

Email ID: <u>customer.care@apollodiagnostics.in</u>



: Spouse - 186137



Patient Name : Mrs.RASHI NAMDEO : 29/Mar/2024 11:22AMExpertise. Empowering you.

 Age/Gender
 : 28 Y 5 M 5 D/F
 Received
 : 29/Mar/2024 01:15PM

 UHID/MR No
 : CAOP.0000000118
 Reported
 : 29/Mar/2024 01:44PM

Visit ID : CAOPOPV132 | Status : Final Report

Ref Doctor : Dr.SELF Sponsor Name : ARCOFEMI HEALTHCARE LIMITED

DEPARTMENT OF CLINICAL PATHOLOGY

ARCOFEMI - MEDIWHEEL - FULL BODY HEALTH ANNUAL PLUS CHECK - FEMALE - 2D ECHO - PAN INDIA - FY2324

Test Name	Result	Unit	Bio. Ref. Range	Method
URINE GLUCOSE(POST PRANDIAL)	NEGATIVE		NEGATIVE	Dipstick
Test Name	Result	Unit	Die Def Denge	Method
rest name	Resuit	Unit	Bio. Ref. Range	Method
URINE GLUCOSE(FASTING)	NEGATIVE		NEGATIVE	Dipstick

*** End Of Report ***



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Apollo Health and Lifestyle Limited

SIN No:UF011578

2C/14, New Rohtak Rd, Block 66a, Karol Bagh, New Delhi-110005

Registered Office

(CIN-U85110TG2000PLC115819)

Regd. Office: 7-1-617/A, 615 and 616, IMPERIAL TOWERS 7th Floor, Ameerpet

Hyderabad, Telangana State 500038

Email ID: <u>customer.care@apollodiagnostics.in</u>