

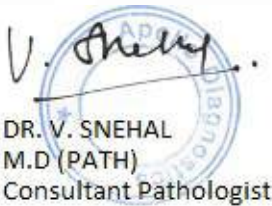
Patient Name : Mrs.SHUKLA TANVI  
 Age/Gender : 34 Y 6 M 0 D/F  
 UHID/MR No : CVIS.0000123212  
 Visit ID : CVISOPV120709  
 Ref Doctor : Dr.SELF  
 Emp/Auth/TPA ID : bobE4996

Collected : 27/Jan/2024 09:55AM  
 Received : 27/Jan/2024 01:42PM  
 Reported : 27/Jan/2024 02:46PM  
 Status : Final Report  
 Sponsor Name : ARCOFEMI HEALTHCARE LIMITED

**DEPARTMENT OF HAEMATOLOGY**

**PERIPHERAL SMEAR , WHOLE BLOOD EDTA**

RBCs ARE NORMOCYTIC NORMOCHROMIC.  
 TLC , DLC WITHIN NORMAL LIMIT. NO IMMATURE CELLS ARE SEEN.  
 PLATELETS ARE ADEQUATE.  
 NO HEMOPARASITES SEEN



**DR. V. SNEHAL**  
M.D (PATH)  
Consultant Pathologist



SIN No:BED240019862

This test has been performed at Apollo Health and Lifestyle Ltd/Vizag Lab : Vizag-530017

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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
<b>HEMOGRAM , WHOLE BLOOD EDTA</b>				
HAEMOGLOBIN	13.5	g/dL	12-15	Spectrophotometer
PCV	40.90	%	36-46	Electronic pulse & Calculation
RBC COUNT	4.74	Million/cu.mm	3.8-4.8	Electrical Impedance
MCV	86	fL	83-101	Calculated
MCH	28.6	pg	27-32	Calculated
MCHC	33.1	g/dL	31.5-34.5	Calculated
R.D.W	13.1	%	11.6-14	Calculated
TOTAL LEUCOCYTE COUNT (TLC)	8,200	cells/cu.mm	4000-10000	Electrical Impedance
<b>DIFFERENTIAL LEUCOCYTIC COUNT (DLC)</b>				
NEUTROPHILS	65.5	%	40-80	Electrical Impedance
LYMPHOCYTES	24.8	%	20-40	Electrical Impedance
EOSINOPHILS	3.9	%	1-6	Electrical Impedance
MONOCYTES	5.8	%	2-10	Electrical Impedance
BASOPHILS	0	%	<1-2	Electrical Impedance
<b>ABSOLUTE LEUCOCYTE COUNT</b>				
NEUTROPHILS	5371	Cells/cu.mm	2000-7000	Calculated
LYMPHOCYTES	2033.6	Cells/cu.mm	1000-3000	Calculated
EOSINOPHILS	319.8	Cells/cu.mm	20-500	Calculated
MONOCYTES	475.6	Cells/cu.mm	200-1000	Calculated
PLATELET COUNT	220000	cells/cu.mm	150000-410000	Electrical impedance
ERYTHROCYTE SEDIMENTATION RATE (ESR)	20	mm at the end of 1 hour	0-20	Modified Westergren
<b>PERIPHERAL SMEAR</b>				

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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
<b>GLUCOSE, FASTING , NAF PLASMA</b>	<b>105</b>	mg/dL	70-100	GOD - POD

**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.

Test Name	Result	Unit	Bio. Ref. Range	Method
<b>HBA1C (GLYCATED HEMOGLOBIN) , WHOLE BLOOD EDTA</b>				
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:

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



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

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.

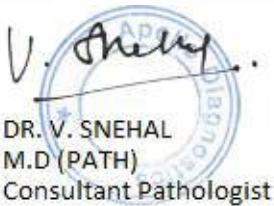
4. Falsely low HbA1c (below 4%) may be observed in patients with clinical conditions that shorten erythrocyte life span or decrease mean erythrocyte age. HbA1c may not accurately reflect glycemic control when clinical conditions that affect erythrocyte survival are present.

5. In cases of Interference of Hemoglobin variants in HbA1C, alternative methods (Fructosamine) estimation is recommended for Glycemic Control

A: HbF >25%

B: Homozygous Hemoglobinopathy.

(Hb Electrophoresis is recommended method for detection of Hemoglobinopathy)



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UHID/MR No : CVIS.0000123212	Reported : 27/Jan/2024 05:12PM
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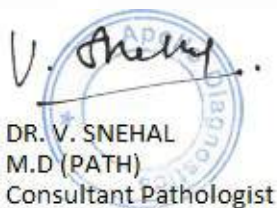
Test Name	Result	Unit	Bio. Ref. Range	Method
<b>LIPID PROFILE , SERUM</b>				
TOTAL CHOLESTEROL	166	mg/dL	0-200	CHOD-PAP
TRIGLYCERIDES	139	mg/dL	0-149	Enzymatic
HDL CHOLESTEROL	42	mg/dL	>40	CHE/CHO/POD
NON-HDL CHOLESTEROL	124	mg/dL	<130	Calculated
LDL CHOLESTEROL	96.35	mg/dL	<100	Calculated
VLDL CHOLESTEROL	27.75	mg/dL	<30	Calculated
CHOL / HDL RATIO	3.95		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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SIN No:SE04610938

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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
<b>LIVER FUNCTION TEST (LFT) , SERUM</b>				
BILIRUBIN, TOTAL	0.90	mg/dL	0.20-1.20	Colorimetric
BILIRUBIN CONJUGATED (DIRECT)	<b>0.29</b>	mg/dL	0.0-0.20	Diazotized 2,4? Dichloroaniline
BILIRUBIN (INDIRECT)	0.61	mg/dL	0.0-1.1	Dual Wavelength
ALANINE AMINOTRANSFERASE (ALT/SGPT)	20.99	U/L	0-34	IFCC Modified method without PLP
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	22.1	U/L	0-34	IFCC
ALKALINE PHOSPHATASE	<b>110.90</b>	U/L	42-98	IFCC
PROTEIN, TOTAL	7.20	g/dL	6.3-8.2	Biuret
ALBUMIN	4.34	g/dL	3.5-5.2	Bromocresol Green
GLOBULIN	2.86	g/dL	2.0-3.5	Calculated
A/G RATIO	1.52		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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**DEPARTMENT OF BIOCHEMISTRY**

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



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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
<b>RENAL PROFILE/KIDNEY FUNCTION TEST (RFT/KFT) , SERUM</b>				
CREATININE	0.87	mg/dL	0.5-0.9	Jaffe
UREA	16.30	mg/dL	15-40	Urease with GLDH
BLOOD UREA NITROGEN	<b>7.6</b>	mg/dL	8.0 - 23.0	Calculated
URIC ACID	5.54	mg/dL	2.6-6	URICASE/PEROXIDASE
CALCIUM	9.37	mg/dL	8.6-10.3	Arsenazo-III
PHOSPHORUS, INORGANIC	3.85	mg/dL	2.7-4.5	PHOSPHOMOLYBDATE
SODIUM	139	mmol/L	135-145	Direct ISE
POTASSIUM	4.2	mmol/L	3.5-5.1	Direct ISE
CHLORIDE	99	mmol/L	98 - 107	Direct ISE



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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
<b>THYROID PROFILE TOTAL (T3, T4, TSH) , SERUM</b>				
TRI-iodothyronine (T3, TOTAL)	1.71	ng/ml	0.69-2.15	CLIA
THYROXINE (T4, TOTAL)	83.50	ng/ml	52-127	CLIA
THYROID STIMULATING HORMONE (TSH)	<b>5.930</b>	µIU/mL	0.3-4.5	CLIA

**Comment:**

<b>For pregnant females</b>	<b>Bio Ref Range for TSH in uIU/ml (As per American Thyroid Association)</b>
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

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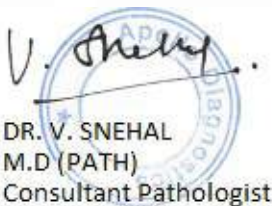
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DEPARTMENT OF CLINICAL PATHOLOGY

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

Test Name	Result	Unit	Bio. Ref. Range	Method
<b>COMPLETE URINE EXAMINATION (CUE) , URINE</b>				
<b>PHYSICAL EXAMINATION</b>				
COLOUR	PALE YELLOW		PALE YELLOW	Visual
TRANSPARENCY	CLEAR		CLEAR	Visual
pH	6.0		5-7.5	Bromothymol Blue
SP. GRAVITY	1.015		1.002-1.030	Dipstick
<b>BIOCHEMICAL EXAMINATION</b>				
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
BLOOD	NEGATIVE		NEGATIVE	Dipstick
NITRITE	NEGATIVE		NEGATIVE	Dipstick
LEUCOCYTE ESTERASE	NEGATIVE		NEGATIVE	PYRROLE HYDROLYSIS
<b>CENTRIFUGED SEDIMENT WET MOUNT AND MICROSCOPY</b>				
PUS CELLS	2-4	/hpf	0-5	Microscopy
EPITHELIAL CELLS	1-2	/hpf	<10	MICROSCOPY
RBC	0.00	/hpf	0-2	MICROSCOPY
CASTS	NIL		0-2 Hyaline Cast	MICROSCOPY
CRYSTALS	ABSENT		ABSENT	MICROSCOPY



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SIN No:UR2269438

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