

**PATIENT NAME : PIYALI PAL**

**REF. DOCTOR : SELF**

**CODE/NAME & ADDRESS :** C000138363

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )  
F-703, LADO SARAI, MEHRAULISOUTH WEST  
DELHI  
NEW DELHI 110030  
8800465156

**ACCESSION NO :** 0031WA002385

**PATIENT ID :** PIYAF01017331

**CLIENT PATIENT ID:**

**ABHA NO :**

**AGE/SEX :** 50 Years Female

**DRAWN :** 05/01/2023 08:03:00

**RECEIVED :** 05/01/2023 08:10:49

**REPORTED :** 06/01/2023 13:07:26

**Test Report Status** Final

**Results**

**Biological Reference Interval** **Units**

**MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE**

**XRAY-CHEST**

**IMPRESSION**

Dorsal spinal marginal osteophytes noted

**TMT OR ECHO**

**TMT OR ECHO**

Echo done - Reduced diastolic compliance

**ECG**

**ECG**

NORMAL

**MEDICAL HISTORY**

**RELEVANT PRESENT HISTORY**

NOT SIGNIFICANT

**RELEVANT PAST HISTORY**

NOT SIGNIFICANT

**RELEVANT PERSONAL HISTORY**

NOT SIGNIFICANT

**RELEVANT FAMILY HISTORY**

Mother- HTN

**OCCUPATIONAL HISTORY**

NOT SIGNIFICANT

**HISTORY OF MEDICATIONS**

NOT SIGNIFICANT

**ANTHROPOMETRIC DATA & BMI**

**HEIGHT IN METERS**

1.53

mts

**WEIGHT IN KGS.**

64

Kgs

**BMI**

27

**BMI & Weight Status as follows:**

Below 18.5: Underweight

18.5 - 24.9: Normal

25.0 - 29.9: Overweight

30.0 and Above: Obese

**GENERAL EXAMINATION**

**MENTAL / EMOTIONAL STATE**

NORMAL

**PHYSICAL ATTITUDE**

NORMAL

**GENERAL APPEARANCE / NUTRITIONAL STATUS**

OVERWEIGHT

**BUILT / SKELETAL FRAMEWORK**

AVERAGE

**FACIAL APPEARANCE**

NORMAL

**SKIN**

NORMAL

**UPPER LIMB**

NORMAL

**LOWER LIMB**

NORMAL

**NECK**

NORMAL

**NECK LYMPHATICS / SALIVARY GLANDS**

NOT ENLARGED OR TENDER

*Debika Roy*

**Dr. Debika Roy**  
**MBBS Consultant Physician**

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Email : customercare.saltlake@srl.in



**Patient Ref. No. 31000004590165**

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THYROID GLAND	NOT ENLARGED		
CAROTID PULSATION	NORMAL		
TEMPERATURE	NORMAL		
PULSE	76/min- REGULAR, ALL PERIPHERAL PULSES WELL FELT		
RESPIRATORY RATE	NORMAL		

**CARDIOVASCULAR SYSTEM**

BP	120/80 mm Hg		mm/Hg
PERICARDIUM	NORMAL		
APEX BEAT	NORMAL		
HEART SOUNDS	S1, S2 HEARD NORMALLY		
MURMURS	ABSENT		

**RESPIRATORY SYSTEM**

SIZE AND SHAPE OF CHEST	NORMAL		
MOVEMENTS OF CHEST	SYMMETRICAL		
BREATH SOUNDS INTENSITY	NORMAL		
BREATH SOUNDS QUALITY	VESICULAR (NORMAL)		
ADDED SOUNDS	ABSENT		

**PER ABDOMEN**

APPEARANCE	NORMAL		
VENOUS PROMINENCE	ABSENT		
LIVER	NOT PALPABLE		
SPLEEN	NOT PALPABLE		
HERNIA	ABSENT		

**CENTRAL NERVOUS SYSTEM**

HIGHER FUNCTIONS	NORMAL		
CRANIAL NERVES	NORMAL		
CEREBELLAR FUNCTIONS	NORMAL		
SENSORY SYSTEM	NORMAL		
MOTOR SYSTEM	NORMAL		
REFLEXES	NORMAL		

**MUSCULOSKELETAL SYSTEM**

SPINE	NORMAL		
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JOINTS

NORMAL

**BASIC EYE EXAMINATION**

CONJUNCTIVA

NORMAL

EYELIDS

NORMAL

EYE MOVEMENTS

NORMAL

CORNEA

NORMAL

DISTANT VISION RIGHT EYE WITH GLASSES

6/36

DISTANT VISION LEFT EYE WITH GLASSES

6/24

NEAR VISION RIGHT EYE WITH GLASSES

N6

NEAR VISION LEFT EYE WITH GLASSES

N6

COLOUR VISION

NORMAL

**BASIC ENT EXAMINATION**

EXTERNAL EAR CANAL

NORMAL

TYMPANIC MEMBRANE

NORMAL

NOSE

NO ABNORMALITY DETECTED

SINUSES

CLEAR

THROAT

NO ABNORMALITY DETECTED

TONSILS

NOT ENLARGED

**BASIC DENTAL EXAMINATION**

TEETH

NORMAL

GUMS

HEALTHY

**SUMMARY**

RELEVANT HISTORY

NOT SIGNIFICANT

RELEVANT GP EXAMINATION FINDINGS

Overweight (64 kg)

RELEVANT LAB INVESTIGATIONS

Raised Chol (290), TGL (567), Non HDL (246), HbA1c (5.9), FBS (116)

RELEVANT NON PATHOLOGY DIAGNOSTICS

Reduced diastolic compliance in echo  
Mild hepatomegaly with grade II fatty liver in usg  
Dorsal spinal marginal osteophytes noted in X-Ray

*Debika Roy*

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**Results**

**Biological Reference Interval Units**

**REMARKS / RECOMMENDATIONS**

On examination and investigations the candidate is found to be overweight and has raised Chol (290), TGL (567), Non HDL (246), HbA1c (5.9), FBS (116)  
Reduced diastolic compliance in echo  
Mild hepatomegaly with grade II fatty liver in usg  
Dorsal spinal marginal osteophytes noted in X-Ray

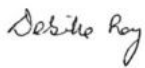
Should follow the given advice:

1. Avoid fat, oil and high carbohydrate in diet
2. Reduce body weight
3. Estimated body weight should be : 56 kg
4. Regular physical exercise and walking
5. Drink plenty of water
6. Physician and ophthalmologist opinion

**Comments**

MEDICAL EXAMINATION DONE BY:

DR. DEBIKA ROY, MBBS  
REG NO: 51651 (WBMC)  
CONSULTANT PHYSICIAN  
WELLNESS CLINIC  
SALT LAKE REF LAB, KOLKATA



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**MBBS Consultant Physician**

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**Results**

**Units**

**MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE**

**ULTRASOUND ABDOMEN**

**ULTRASOUND ABDOMEN**

Mild hepatomegaly with grade II fatty liver

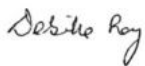
**Interpretation(s)**

MEDICAL

HISTORY\_\*\*\*\*\*

THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVIOABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE. HOWEVER, ALL EXAMINATIONS AND INVESTIGATIONS HAVE BEEN CONDUCTED BY OUR PANEL OF DOCTORS.

\*\*\*\*\*



**Dr. Debika Roy**  
**MBBS Consultant Physician**

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**Patient Ref. No. 3100004590165**



MC-2396

**PATIENT NAME : PIYALI PAL****REF. DOCTOR : SELF****CODE/NAME & ADDRESS : C000138363**ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )  
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8800465156**ACCESSION NO : 0031WA002385**

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**Test Report Status Final****Results****Biological Reference Interval Units****HAEMATOLOGY - CBC****MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE****BLOOD COUNTS,EDTA WHOLE BLOOD**

HEMOGLOBIN (HB)	13.3	12.0 - 15.0	g/dL
METHOD : SPECTROPHOTOMETRY			
RED BLOOD CELL (RBC) COUNT	4.63	3.8 - 4.8	mil/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE			
WHITE BLOOD CELL (WBC) COUNT	6.10	4.0 - 10.0	thou/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE			
PLATELET COUNT	160	150 - 410	thou/ $\mu$ L
METHOD : ELECTRONIC IMPEDENCE & MICROSCOPY			

**RBC AND PLATELET INDICES**

HEMATOCRIT (PCV)	38.9	36 - 46	%
METHOD : CALCULATED			
MEAN CORPUSCULAR VOLUME (MCV)	84.1	83 - 101	fL
METHOD : ELECTRICAL IMPEDANCE			
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	28.7	27.0 - 32.0	pg
METHOD : CALCULATED			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)	34.1	31.5 - 34.5	g/dL
METHOD : CALCULATED			
RED CELL DISTRIBUTION WIDTH (RDW)	<b>14.1 High</b>	11.6 - 14.0	%
METHOD : ELECTRICAL IMPEDANCE			
MENTZER INDEX	18.2		
MEAN PLATELET VOLUME (MPV)	9.3	6.8 - 10.9	fL
METHOD : CALCULATED			

**WBC DIFFERENTIAL COUNT**

NEUTROPHILS	56	40 - 80	%
METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.			
LYMPHOCYTES	35	20 - 40	%
METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.			
MONOCYTES	6	2 - 10	%
METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.			
EOSINOPHILS	3	1 - 6	%
BASOPHILS	0	0 - 2	%

*AChatterjee***Dr.Anwasha Chatterjee,MD**  
**Pathologist**

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MC-2396

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8800465156**ACCESSION NO :** 0031WA002385**PATIENT ID :** PIYAF01017331**CLIENT PATIENT ID:****ABHA NO :****AGE/SEX :** 50 Years Female**DRAWN :** 05/01/2023 08:03:00**RECEIVED :** 05/01/2023 08:10:49**REPORTED :** 06/01/2023 13:07:26

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METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE &amp; MICROSCOPY.

ABSOLUTE NEUTROPHIL COUNT	3.42	2.0 - 7.0	thou/ $\mu$ L
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METHOD : FLOWCYTOMETRY &amp; CALCULATED

ABSOLUTE LYMPHOCYTE COUNT	2.14	1 - 3	thou/ $\mu$ L
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METHOD : FLOWCYTOMETRY &amp; CALCULATED

ABSOLUTE MONOCYTE COUNT	0.37	0.20 - 1.00	thou/ $\mu$ L
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METHOD : FLOWCYTOMETRY &amp; CALCULATED

ABSOLUTE EOSINOPHIL COUNT	0.18	0.02 - 0.50	thou/ $\mu$ L
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METHOD : FLOWCYTOMETRY &amp; CALCULATED

ABSOLUTE BASOPHIL COUNT	<b>0.00 Low</b>	0.02 - 0.10	thou/ $\mu$ L
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METHOD : FLOWCYTOMETRY &amp; CALCULATED

**MORPHOLOGY**

RBC NORMOCYTIC NORMOCHROMIC

METHOD : MICROSCOPIC EXAMINATION

WBC NORMAL MORPHOLOGY

METHOD : MICROSCOPIC EXAMINATION

PLATELETS ADEQUATE

METHOD : MICROSCOPIC EXAMINATION

**Interpretation(s)**

BLOOD COUNTS, EDTA WHOLE BLOOD-The cell morphology is well preserved for 24hrs. However after 24-48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology.

RBC AND PLATELET INDICES-Mentzer index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia (>13) from Beta thalassaemia trait

(<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait.

WBC DIFFERENTIAL COUNT-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.

(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients ; A.-P. Yang, et al.; International Immunopharmacology 84 (2020) 106504 This ratio element is a calculated parameter and out of NABL scope.

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**Pathologist**

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METHOD : AUTOMATED (PHOTOMETRICAL CAPILLARY STOPPED FLOW KINETIC ANALYSIS)"

**Interpretation(s)****ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD-TEST DESCRIPTION :-**

Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automated instruments are available to measure ESR.

ESR is not diagnostic; it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an inflammatory condition. CRP is superior to ESR because it is more sensitive and reflects a more rapid change.

**TEST INTERPRETATION****Increase** in: Infections, Vasculitides, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging.

Finding a very accelerated ESR(&gt;100 mm/hour) in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias, Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis).

In pregnancy BRI in first trimester is 0-48 mm/hr(62 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum.

**Decreased** in: Polycythemia vera, Sickle cell anemia**LIMITATIONS****False elevated ESR** : Increased fibrinogen, Drugs(Vitamin A, Dextran etc), Hypercholesterolemia**False Decreased** : Poikilocytosis,(SickleCells,spherocytes),Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine, salicylates)**REFERENCE :**

1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition;2. Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin;3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis,10th edition.

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**IMMUNOHAEMATOLOGY****MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE****ABO GROUP & RH TYPE, EDTA WHOLE BLOOD**

ABO GROUP

TYPE A

METHOD : GEL CARD METHOD

RH TYPE

POSITIVE

METHOD : GEL CARD METHOD

**Interpretation(s)**

ABO GROUP &amp; RH TYPE, EDTA WHOLE BLOOD-

Blood group is identified by antigens and antibodies present in the blood. Antigens are protein molecules found on the surface of red blood cells. Antibodies are found in plasma. To determine blood group, red cells are mixed with different antibody solutions to give A,B,O or AB.

Disclaimer: "Please note, as the results of previous ABO and Rh group (Blood Group) for pregnant women are not available, please check with the patient records for availability of the same."

The test is performed by both forward as well as reverse grouping methods.

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**BIOCHEMISTRY**

**MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE**

**GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD**

HBA1C	<b>5.9 High</b>	Non-diabetic Adult < 5.7 % Pre-diabetes 5.7 - 6.4 Diabetes diagnosis: > or = 6.5 Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)
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METHOD : HPLC

ESTIMATED AVERAGE GLUCOSE(EAG)	<b>122.6 High</b>	< 116.0	mg/dL
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**Dr. Chaitali Ray, PhD**  
**Chief Biochemist cum MRQA**



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CIN - U74899PB1995PLC045956  
Email : customercare.saltlake@srl.in



**Patient Ref. No. 31000004590165**



MC-2396

PATIENT NAME : PIYALI PAL

REF. DOCTOR : SELF

CODE/NAME & ADDRESS : C000138363

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )  
F-703, LADO SARAI, MEHRAULISOUTH WEST  
DELHI

NEW DELHI 110030  
8800465156

ACCESSION NO : 0031WA002385

PATIENT ID : PIYAF01017331

CLIENT PATIENT ID:

ABHA NO :

AGE/SEX : 50 Years Female

DRAWN : 05/01/2023 08:03:00

RECEIVED : 05/01/2023 08:10:49

REPORTED : 06/01/2023 13:07:26

Test Report Status **Final**

Results

Biological Reference Interval Units

SRL LIMITED - KOLKATA REF. LAB  
Bio-Rad Variant II Turbo CDM 5.4 S/N : 16043

PATIENT REP  
V2TURBO\_A1c

**Patient Data**

Sample ID: 3106684864  
Patient ID: 0031WA002385  
Name: PIYALIPAL  
Physician:  
Sex:  
DOB:

**Analysis Data**

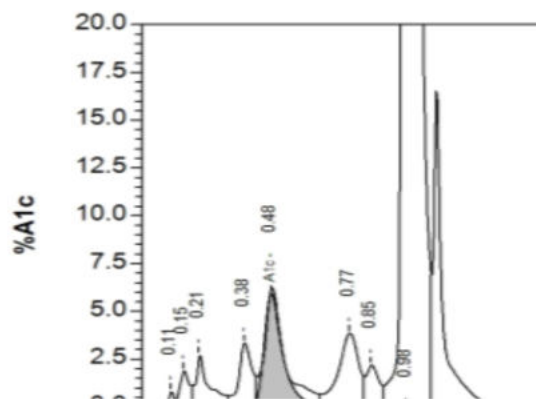
Analysis Performed: 05/JAN/2023 12:43:59  
Injection Number: 849  
Run Number: 47  
Rack ID: 0002  
Tube Number: 6  
Report Generated: 05/JAN/2023 13:32:19  
Operator ID:

Comments:

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
Unknown	---	0.2	0.108	4492
A1a	---	0.8	0.154	21884
A1b	---	1.6	0.213	42671
LA1c	---	2.0	0.382	52577
A1c	5.9	---	0.481	130712
P3	---	3.4	0.771	91508
P4	---	1.2	0.853	32057
Ao	---	86.0	0.985	2315940

Total Area: 2,691,841

**HbA1c (NGSP) = 5.9 %**



*Chaitali*

Dr. Chaitali Ray, PhD  
Chief Biochemist cum MRQA

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**GLUCOSE FASTING,FLUORIDE PLASMA**

FBS (FASTING BLOOD SUGAR)

**116 High**

74 - 100

mg/dL

METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)

**GLUCOSE, POST-PRANDIAL, PLASMA**

PPBS(POST PRANDIAL BLOOD SUGAR)

100

140 Normal  
140 - 199 Pre-diabetic  
> or = 200 Diabetic

mg/dL

METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)

**Comments**

NOTE: PP SUGAR CAN BE LOWER THAN FASTING SUGAR DUE TO THE FOLLOWING REASONS:

- 1) OPTIMUM AMOUNT OF GLUCOSE (i.e. 75 GM OF ANHYDROUS GLUCOSE EQUIVALENT TO 82.5 GRAMS OF GLUCOSE MONOHYDRATE) MAY NOT HAVE BEEN CONSUMED.
- 2) PATIENT MAY BE A KNOWN DIABETIC UNDER TREATMENT.
- 3) IN LATENT DIABETICS, HYPERSECRETION OF INSULIN BY THE ISLET CELLS OF PANCREAS MAY LEAD TO INCREASED UTILISATION OF POST PRANDIAL BLOOD GLUCOSE.
- 4) IN CASE OF HEAVY EXERCISES LIKE TRADEMILL TEST BEFORE GIVING PP SAMPLE.
- 5) "DAWN PHENOMENON" WHICH IS HIGH SUGAR VALUE IN THE MORNING DUE TO NORMAL ALTERATION IN HORMONES LIKE GROWTH HORMONE, CORTISOL, EPINEPHRINE AND NOREPINEPHRIN AFTER WAKING UP.
- 6) TAKING TOO MUCH BLOOD PRESSURE MEDICATION MAY ALSO CAUSE THE BLOOD SUGAR TO GO UP IN THE MORNING.
- 7) IN CASE OF IMPAIRED FASTING GLYCEMIA, A TYPE OF PREDIABETIC CONDITION.

**LIPID PROFILE, SERUM**

CHOLESTEROL, TOTAL

**290 High**< 200 Desirable  
200 - 239 Borderline High  
>/= 240 High

mg/dL

METHOD : ENZYMATIC ASSAY

TRIGLYCERIDES

**567 High**< 150 Normal  
150 - 199  
Borderline High  
200 - 499 High  
>/=500 Very High

mg/dL

METHOD : GLYCEROL PHOSPHATE OXIDASE

HDL CHOLESTEROL

44

Low : < 40  
High : > / = 60

mg/dL

METHOD : ACCELERATOR SELECTIVE DETERGENT METHODOLOGY

CHOLESTEROL LDL

133

mg/dL

**Dr. Chaitali Ray, PhD**  
**Chief Biochemist cum MRQA**

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NON HDL CHOLESTEROL

**246 High**

Desirable: Less than 130 mg/dL

Above Desirable: 130-159

Borderline High: 160-189

High: 190 -219

Very High: &gt;or = 220

METHOD : CALCULATED

CHOL/HDL RATIO

6.6

LDL/HDL RATIO

3.0

**Comments**

NOTE VLDL CANNOT BE REPORTED AS THEY ARE CALCULATED VALUES &amp; THE FORMULA IS INVALID IF THE TRIGLYCERIDE VALUE IS &gt; 400mg/dl

**Interpretation(s)****LIVER FUNCTION PROFILE, SERUM**

BILIRUBIN, TOTAL

0.75

0.2 - 1.2

mg/dL

METHOD : DIAZONIUM SALT

BILIRUBIN, DIRECT

0.23

0.0 - 0.5

mg/dL

METHOD : DIAZO REACTION

BILIRUBIN, INDIRECT

0.52

0.1 - 1.0

mg/dL

METHOD : CALCULATED

TOTAL PROTEIN

8.2

6.0 - 8.30

g/dL

METHOD : BIURET

ALBUMIN

5.1

3.5 - 5.2

g/dL

METHOD : COLORIMETRIC (BROMCRESOL GREEN)

GLOBULIN

3.1

2.0 - 3.5

g/dL

ALBUMIN/GLOBULIN RATIO

1.7

1 - 2.1

RATIO

METHOD : CALCULATED PARAMETER

ASPARTATE AMINOTRANSFERASE  
(AST/SGOT)

27

5 - 34

U/L

METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)

ALANINE AMINOTRANSFERASE (ALT/SGPT)

29

0 - 55

U/L

METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)

ALKALINE PHOSPHATASE

98

40 - 150

U/L

METHOD : PARA-NITROPHENYL PHOSPHATE

GAMMA GLUTAMYL TRANSFERASE (GGT)

20

8 -33

U/L

METHOD : L-GAMMA-GLUTAMYL-4-NITROANALIDE /GLYCYLGLYCINE KINETIC METHOD

**Dr. Chaitali Ray, PhD**  
**Chief Biochemist cum MRQA**

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LACTATE DEHYDROGENASE		196	125 - 220	U/L
METHOD : IFCC LACTATE TO PYRUVATE				
<b>BLOOD UREA NITROGEN (BUN), SERUM</b>				
BLOOD UREA NITROGEN		10	9.8 - 20.1	mg/dL
METHOD : UREASE METHOD				
<b>CREATININE, SERUM</b>				
CREATININE		0.71	0.50 - 1.10	mg/dL
METHOD : KINETIC ALKALINE PICRATE				
<b>BUN/CREAT RATIO</b>				
BUN/CREAT RATIO		14.08	5.0 - 15.0	
<b>URIC ACID, SERUM</b>				
URIC ACID		5.5	2.6 - 6.0	mg/dL
METHOD : URICASE				
<b>TOTAL PROTEIN, SERUM</b>				
TOTAL PROTEIN		8.2	6.0 - 8.3	g/dL
METHOD : BIURET				
<b>ALBUMIN, SERUM</b>				
ALBUMIN		5.1	3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)				
<b>GLOBULIN</b>				
GLOBULIN		3.1	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAMETER				
<b>ELECTROLYTES (NA/K/CL), SERUM</b>				
SODIUM, SERUM		<b>135 Low</b>	136 - 145	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT				
POTASSIUM, SERUM		4.20	3.5 - 5.1	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT				
CHLORIDE, SERUM		98	98 - 107	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT				

**Interpretation(s)***Chaitali***Dr. Chaitali Ray, PhD**  
**Chief Biochemist cum MRQA**

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MC-2396

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F-703, LADO SARAI, MEHRAULISOUTH WEST  
DELHI  
NEW DELHI 110030  
8800465156**ACCESSION NO : 0031WA002385****PATIENT ID : PIYAF01017331****CLIENT PATIENT ID :****ABHA NO :****AGE/SEX : 50 Years Female****DRAWN : 05/01/2023 08:03:00****RECEIVED : 05/01/2023 08:10:49****REPORTED : 06/01/2023 13:07:26**

Test Report Status	Final	Results	Biological Reference Interval	Units
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**Interpretation(s)**

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-Used For:

- 1.Evaluating the long-term control of blood glucose concentrations in diabetic patients.
- 2.Diagnosing diabetes.
3. Identifying patients at increased risk for diabetes (prediabetes).

The ADA recommends measurement of HbA1c (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patient's metabolic control has remained continuously within the target range.

1. eAG (Estimated average glucose) converts percentage HbA1c to mg/dl, to compare blood glucose levels.
2. eAG gives an evaluation of blood glucose levels for the last couple of months.
3. eAG is calculated as  $eAG (mg/dl) = 28.7 * HbA1c - 46.7$

**HbA1c Estimation can get affected due to :**

- I. Shortened Erythrocyte survival : Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss, hemolytic anemia) will falsely lower HbA1c test results. Fructosamine is recommended in these patients which indicates diabetes control over 15 days.
- II. Vitamin C & E are reported to falsely lower test results. (possibly by inhibiting glycation of hemoglobin).
- III. Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia, uremia, hyperbilirubinemia, chronic alcoholism, chronic ingestion of salicylates & opiates addition are reported to interfere with some assay methods, falsely increasing results.
- IV. Interference of hemoglobinopathies in HbA1c estimation is seen in
  - a. Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c.
  - b. Heterozygous state detected (D10 is corrected for HbS & HbC trait.)
  - c. HbF > 25% on alternate platform (Boronate affinity chromatography) is recommended for testing of HbA1c. Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy

**GLUCOSE FASTING, FLUORIDE PLASMA-TEST DESCRIPTION**

Normally, the glucose concentration in extracellular fluid is closely regulated so that a source of energy is readily available to tissues and so that no glucose is excreted in the urine.

**Increased in**

Diabetes mellitus, Cushing's syndrome (10 - 15%), chronic pancreatitis (30%). Drugs: corticosteroids, phenytoin, estrogen, thiazides.

**Decreased in**

Pancreatic islet cell disease with increased insulin, insulinoma, adrenocortical insufficiency, hypopituitarism, diffuse liver disease, malignancy (adrenocortical, stomach, fibrosarcoma), infant of a diabetic mother, enzyme deficiency diseases (e.g., galactosemia), Drugs- insulin, ethanol, propranolol; sulfonureas, tolbutamide, and other oral hypoglycemic agents.

**NOTE:**

While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values), there is wide fluctuation within individuals. Thus, glycosylated hemoglobin (HbA1c) levels are favored to monitor glycemic control.

High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glycosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc.

GLUCOSE, POST-PRANDIAL, PLASMA-High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glycosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc. Additional test HbA1c LIVER FUNCTION PROFILE, SERUM-LIVER FUNCTION PROFILE

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice. Elevated levels result from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease. Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors & Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.

AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver, liver cancer, kidney failure, hemolytic anemia, pancreatitis, hemochromatosis. AST levels may also increase after a heart attack or strenuous activity. ALT test measures the amount of this enzyme in the blood. ALT is found mainly in the liver, but also in smaller amounts in the kidneys, heart, muscles, and pancreas. It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health. AST levels increase during acute hepatitis, sometimes due to a viral infection, ischemia to the liver, chronic hepatitis, obstruction of bile ducts, cirrhosis.

ALP is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bile ducts and bone. Elevated ALP levels are seen in Biliary obstruction,

*Chaitali*

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**Chief Biochemist cum MRQA**

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Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget's disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia, Malnutrition, Protein deficiency, Wilson's disease. GGT is an enzyme found in cell membranes of many tissues mainly in the liver, kidney and pancreas. It is also found in other tissues including intestine, spleen, heart, brain and seminal vesicles. The highest concentration is in the kidney, but the liver is considered the source of normal enzyme activity. Serum GGT has been widely used as an index of liver dysfunction. Elevated serum GGT activity can be found in diseases of the liver, biliary system and pancreas. Conditions that increase serum GGT are obstructive liver disease, high alcohol consumption and use of enzyme-inducing drugs etc. Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of albumin and globulin. Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease. Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc. Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc

**BLOOD UREA NITROGEN (BUN), SERUM- Causes of Increased levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism)**

Causes of decreased level include Liver disease, SIADH.

**CREATININE, SERUM- Higher than normal level may be due to:**

- Blockage in the urinary tract
- Kidney problems, such as kidney damage or failure, infection, or reduced blood flow
- Loss of body fluid (dehydration)
- Muscle problems, such as breakdown of muscle fibers
- Problems during pregnancy, such as seizures (eclampsia), or high blood pressure caused by pregnancy (preeclampsia)

Lower than normal level may be due to:

- Myasthenia Gravis
- Muscular dystrophy

**URIC ACID, SERUM- Causes of Increased levels:-** Dietary (High Protein Intake, Prolonged Fasting, Rapid weight loss), Gout, Lesch nyhan syndrome, Type 2 DM, Metabolic syndrome

**Causes of decreased levels- Low Zinc intake, OCP, Multiple Sclerosis**

**TOTAL PROTEIN, SERUM- Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of albumin and globulin**

Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease

Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.

**ALBUMIN, SERUM- Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc.**

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**Test Report Status** Final**Results****Biological Reference Interval** **Units****CLINICAL PATH - URINALYSIS****MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE****PHYSICAL EXAMINATION, URINE**

COLOR PALE YELLOW

APPEARANCE CLEAR

**CHEMICAL EXAMINATION, URINE**

PH 6.0 4.7 - 7.5

SPECIFIC GRAVITY 1.005 1.003 - 1.035

METHOD : DIPSTICK

PROTEIN NOT DETECTED NOT DETECTED

METHOD : DIPSTICK

GLUCOSE NOT DETECTED NOT DETECTED

METHOD : DIPSTICK

KETONES NOT DETECTED NOT DETECTED

METHOD : DIPSTICK

BLOOD NOT DETECTED NOT DETECTED

METHOD : DIPSTICK

BILIRUBIN NOT DETECTED NOT DETECTED

METHOD : DIPSTICK

UROBILINOGEN NORMAL NORMAL

METHOD : DIPSTICK

NITRITE NOT DETECTED NOT DETECTED

METHOD : DIPSTICK

LEUKOCYTE ESTERASE NEGATIVE NOT DETECTED

**MICROSCOPIC EXAMINATION, URINE**

RED BLOOD CELLS NOT DETECTED NOT DETECTED /HPF

PUS CELL (WBC'S) 1-2 0-5 /HPF

EPITHELIAL CELLS 0-1 0-5 /HPF

CASTS NOT DETECTED

CRYSTALS NOT DETECTED

BACTERIA NOT DETECTED NOT DETECTED

YEAST NOT DETECTED NOT DETECTED

**Dr. Himadri Mondal, MD**  
**Consultant Microbiologist**

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Test Report Status	<u>Final</u>	Results	Biological Reference Interval	Units
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**Comments**

URINALYSIS: MICROSCOPIC EXAMINATION IS CARRIED OUT ON CENTRIFUGED URINARY SEDIMENT.

**Interpretation(s)**

*Himadri Mondal*

**Dr.Himadri Mondal, MD**  
**Consultant Microbiologist**



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**PERFORMED AT :**

SRL Ltd  
P S Srijan Tech Park Building, DN-52, Unit No.2, Ground Floor, Sector V, Salt Lake,  
KOLKATA, 700091  
WEST BENGAL, INDIA  
Tel : 9111591115,  
CIN - U74899PB1995PLC045956  
Email : customercare.saltlake@srl.in



**Patient Ref. No. 31000004590165**



MC-2396

**PATIENT NAME : PIYALI PAL****REF. DOCTOR : SELF****CODE/NAME & ADDRESS : C000138363**ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )  
F-703, LADO SARAI, MEHRAULISOUTH WEST  
DELHINEW DELHI 110030  
8800465156ACCESSION NO : **0031WA002385**

PATIENT ID : PIYAF01017331

CLIENT PATIENT ID:

ABHA NO :

AGE/SEX : 50 Years Female

DRAWN : 05/01/2023 08:03:00

RECEIVED : 05/01/2023 08:10:49

REPORTED : 06/01/2023 13:07:26

Test Report Status	Final	Results	Biological Reference Interval	Units
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**SPECIALISED CHEMISTRY - HORMONE****MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE****THYROID PANEL, SERUM**

T3	120.7	35 - 193	ng/dL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			
T4	9.15	Non-Pregnant Women 4.87 - 11.71 Pregnant Women 1st Trimester: 7.33 - 14.80 2nd Trimester: 7.93 - 16.10 3rd Trimester: 6.95 - 15.70	µg/dL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			
TSH (ULTRASENSITIVE)	4.752	0.350 - 4.940	µIU/mL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			

**Interpretation(s)****\*\*End Of Report\*\*****Please visit [www.srlworld.com](http://www.srlworld.com) for related Test Information for this accession***Chaitali***Dr. Chaitali Ray, PhD**  
**Chief Biochemist cum MRQA**

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