

**PATIENT NAME : SHOMRITA DAS**

**REF. DOCTOR : SELF**

**CODE/NAME & ADDRESS :** C000138363

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

**ACCESSION NO :** 0031WC020259

**PATIENT ID :** SHOMF16068631

**CLIENT PATIENT ID:**

**ABHA NO :**

**AGE/SEX :** 36 Years Female

**DRAWN :** 25/03/2023 09:00:00

**RECEIVED :** 25/03/2023 09:26:44

**REPORTED :** 27/03/2023 14:31:35

**Test Report Status** Final

**Results**

**Biological Reference Interval Units**

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

**XRAY-CHEST**

IMPRESSION NO ABNORMALITY DETECTED

**TMT OR ECHO**

TMT OR ECHO Echo Done - Normal

**ECG**

ECG WITHIN NORMAL LIMITS

**MEDICAL HISTORY**

RELEVANT PRESENT HISTORY NOT SIGNIFICANT

RELEVANT PAST HISTORY Jaundice, Cholecystectomy

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 1.56 mts

WEIGHT IN KGS. 91 Kgs

BMI 37 BMI & Weight Status as follows: kg/sqmts

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 OBESE

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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Tel : 9111591115,  
CIN - U74899PB1995PLC045956  
Email : customercare.saltlake@srl.in



**Patient Ref. No. 3100004657202**

**PATIENT NAME : SHOMRITA DAS**

**REF. DOCTOR : SELF**

**CODE/NAME & ADDRESS :** C000138363

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THYROID GLAND	NOT ENLARGED		
CAROTID PULSATION	NORMAL		
BREAST (FOR FEMALES)	NORMAL		
TEMPERATURE	NORMAL		
PULSE	78/min-REGULAR, ALL PERIPHERAL PULSES WELL FELT		
RESPIRATORY RATE	NORMAL		
<b>CARDIOVASCULAR SYSTEM</b>			
BP	110/74 mm Hg		mm/Hg
PERICARDIUM	NORMAL		
APEX BEAT	NORMAL		
HEART SOUNDS	S1, S2 HEARD NORMALLY		
MURMURS	ABSENT		
<b>RESPIRATORY SYSTEM</b>			
SIZE AND SHAPE OF CHEST	NORMAL		
MOVEMENTS OF CHEST	SYMMETRICAL		
BREATH SOUNDS INTENSITY	NORMAL		
BREATH SOUNDS QUALITY	VESICULAR (NORMAL)		
ADDED SOUNDS	ABSENT		
<b>PER ABDOMEN</b>			
APPEARANCE	NORMAL		
VENOUS PROMINENCE	ABSENT		
LIVER	NOT PALPABLE		
SPLEEN	NOT PALPABLE		
HERNIA	ABSENT		
<b>CENTRAL NERVOUS SYSTEM</b>			
HIGHER FUNCTIONS	NORMAL		
CRANIAL NERVES	NORMAL		
CEREBELLAR FUNCTIONS	NORMAL		
SENSORY SYSTEM	NORMAL		
MOTOR SYSTEM	NORMAL		
REFLEXES	NORMAL		
<b>MUSCULOSKELETAL SYSTEM</b>			

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SPINE NORMAL

JOINTS NORMAL

**BASIC EYE EXAMINATION**

CONJUNCTIVA NORMAL

EYELIDS NORMAL

EYE MOVEMENTS NORMAL

DISTANT VISION RIGHT EYE WITHOUT GLASSES 6/6

DISTANT VISION LEFT EYE WITHOUT GLASSES 6/6

NEAR VISION RIGHT EYE WITHOUT GLASSES N6

NEAR VISION LEFT EYE WITHOUT GLASSES N6

COLOUR VISION NORMAL

**BASIC ENT EXAMINATION**

EXTERNAL EAR CANAL NORMAL

TYMPANIC MEMBRANE NORMAL

NOSE NO ABNORMALITY DETECTED

SINUSES NORMAL

THROAT NO ABNORMALITY DETECTED

TONSILS NOT ENLARGED

**BASIC DENTAL EXAMINATION**

TEETH NORMAL

GUMS HEALTHY

**SUMMARY**

RELEVANT HISTORY NOT SIGNIFICANT

RELEVANT GP EXAMINATION FINDINGS Obese (91 kg)

RELEVANT LAB INVESTIGATIONS Raised FBS(111),PPBS(154),HbA1C(6.3),CH(216),TGL(166),NON HDL (174),GGT(374),Low sodium(133)

RELEVANT NON PATHOLOGY DIAGNOSTICS Hepatomegaly with grade I fatty change. Bulky uterus in USG.

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**MBBS Consultant Physician**

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**REMARKS / RECOMMENDATIONS**

On examination and investigations the candidate is found to be obese and has raised FBS(111), PPBS(154), HbA1C(6.3), CH(216),TGL(166),NON HDL(174),GGT(37),Low sodium(133) Hepatomegaly with grade I fatty change, Bulky uterus in USG

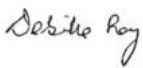
Should follow the given advice:

1. Avoid fat, oil and high carbohydrate in diet
2. Reduce body weight
3. Estimated body weight should be : 58 kg
4. Regular physical exercise and walking
5. Drink sips of electral water
6. Dietician and physician consultation

**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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**Patient Ref. No. 31000004657202**

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**REF. DOCTOR : SELF**

**CODE/NAME & ADDRESS : C000138363**

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**Test Report Status Final**

**Results**

**Units**

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

**ULTRASOUND ABDOMEN**

**ULTRASOUND ABDOMEN**

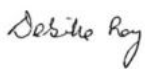
Hepatomegaly with grade I fatty change, Bulky uterus

**Interpretation(s)**

MEDICAL

HISTORY\_\*\*\*\*\*  
THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVOLABLE 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. 3100004657202**



MC-2396

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

HEMOGLOBIN (HB)	12.1	12.0 - 15.0	g/dL
METHOD : SPECTROPHOTOMETRY			
RED BLOOD CELL (RBC) COUNT	4.53	3.8 - 4.8	mil/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE			
WHITE BLOOD CELL (WBC) COUNT	7.66	4.0 - 10.0	thou/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE			
PLATELET COUNT	181	150 - 410	thou/ $\mu$ L
METHOD : ELECTRONIC IMPEDENCE & MICROSCOPY			

**RBC AND PLATELET INDICES**

HEMATOCRIT (PCV)	36.6	36 - 46	%
METHOD : CALCULATED			
MEAN CORPUSCULAR VOLUME (MCV)	<b>80.8 Low</b>	83 - 101	fL
METHOD : ELECTRICAL IMPEDANCE			
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	<b>26.8 Low</b>	27.0 - 32.0	pg
METHOD : CALCULATED			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)	33.1	31.5 - 34.5	g/dL
METHOD : CALCULATED			
RED CELL DISTRIBUTION WIDTH (RDW)	<b>15.0 High</b>	11.6 - 14.0	%
METHOD : ELECTRICAL IMPEDANCE			
MENTZER INDEX	17.8		
MEAN PLATELET VOLUME (MPV)	<b>12.0 High</b>	6.8 - 10.9	fL
METHOD : CALCULATED			

**WBC DIFFERENTIAL COUNT**

NEUTROPHILS	62	40 - 80	%
METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.			
LYMPHOCYTES	29	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. Anwesa Chatterjee, MD**  
Pathologist

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Test Report Status	Final	Results	Biological Reference Interval	Units
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METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE &amp; MICROSCOPY.

ABSOLUTE NEUTROPHIL COUNT	4.75	2.0 - 7.0	thou/ $\mu$ L
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METHOD : FLOWCYTOMETRY &amp; CALCULATED

ABSOLUTE LYMPHOCYTE COUNT	2.22	1 - 3	thou/ $\mu$ L
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METHOD : FLOWCYTOMETRY &amp; CALCULATED

ABSOLUTE MONOCYTE COUNT	0.46	0.20 - 1.00	thou/ $\mu$ L
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METHOD : FLOWCYTOMETRY &amp; CALCULATED

ABSOLUTE EOSINOPHIL COUNT	0.23	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 PREDOMINANTLY NORMOCYTIC NORMOCHROMIC

METHOD : MICROSCOPIC EXAMINATION

WBC NORMAL MORPHOLOGY

METHOD : MICROSCOPIC EXAMINATION

PLATELETS ADEQUATE &amp; NORMAL

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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TYPE O

METHOD : TUBE AGGLUTINATION

**RH TYPE**

POSITIVE

METHOD : TUBE AGGLUTINATION

**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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74 - 100

mg/dL

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

**GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD****HBA1C****6.3 High**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)

METHOD : HPLC

**ESTIMATED AVERAGE GLUCOSE(EAG)****134.1 High**

&lt; 116.0

mg/dL

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

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CODE/NAME & ADDRESS : C000138363

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

NEW DELHI 110030  
8800465156

ACCESSION NO : 0031WC020259

PATIENT ID : SHOMF16068631

CLIENT PATIENT ID:

ABHA NO :

AGE/SEX : 36 Years Female

DRAWN : 25/03/2023 09:00:00

RECEIVED : 25/03/2023 09:26:44

REPORTED : 27/03/2023 14:31:35

Test Report Status **Final**

Results

Biological Reference Interval Units

SRL LIMITED - KOLKATA REF. LAB  
Bio-Rad Variant II Turbo CDM 5.4 S/N : 13466

PATIENT REP  
V2TURBO\_A1c

**Patient Data**

Sample ID: 3106839455  
Patient ID: 0031WC020259  
Name: SHOMRITADAS  
Physician:  
Sex:  
DOB:

**Analysis Data**

Analysis Performed: 25/03/2023 12:39:35  
Injection Number: 13549  
Run Number: 761  
Rack ID:  
Tube Number: 8  
Report Generated: 25/03/2023 14:14:12  
Operator ID:

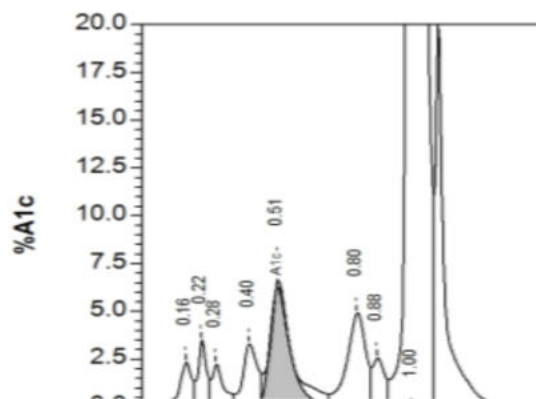
Comments:

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
A1a	---	1.2	0.162	28802
A1b	---	1.2	0.220	30746
F	---	1.1	0.275	26904
LA1c	---	2.0	0.400	49099
A1c	6.3*	---	0.505	130318
P3	---	3.8	0.800	93782
P4	---	1.2	0.875	30934
Ao	---	84.2	1.003	2089145

\*Values outside of expected ranges

Total Area: 2,479,729

**HbA1c (NGSP) = 6.3\* %**



*Chaitali*

Dr. Chaitali Ray, PhD  
Chief Biochemist cum MRQA

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



Patient Ref. No. 31000004657202



MC-2396

**PATIENT NAME : SHOMRITA DAS****REF. DOCTOR : SELF****CODE/NAME & ADDRESS : C000138363**ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )  
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8800465156**ACCESSION NO : 0031WC020259**

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**Test Report Status Final****Results****Biological Reference Interval Units****Comments**

FOR HbA1C

NOTE: INCREASED LEVELS OF GLYCOSYLATED HEMOGLOBIN MAY NEED CLINICAL CORRELATION . HIGH GLYCOSYLATED HEMOGLOBIN LEVELS MAY BE OBSERVED IN CONDITIONS SUCH AS UNCONTROLLED DIABETES, POOR COMPLIANCE WITH ANTIDIABETIC THERAPY, CHRONIC RENAL FAILURE, HYPERTRIGLYCERIDEMIA, IRON DEFICIENCY ANAEMIA, SALICYLATE THERAPY, HAEMOGLOBINOPATHIES LIKE THALASSAEMIA MAY ALSO SHOW HIGH GLYCOSYLATED HEMOGLOBIN LEVELS.

**GLUCOSE, POST-PRANDIAL, PLASMA**

PPBS(POST PRANDIAL BLOOD SUGAR)	<b>154 High</b>	140 Normal 140 - 199 Pre-diabetic > or = 200 Diabetic	mg/dL
---------------------------------	-----------------	---	-------

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

**LIPID PROFILE, SERUM**

CHOLESTEROL, TOTAL	<b>216 High</b>	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
--------------------	-----------------	--	-------

METHOD : ENZYMATIC ASSAY

TRIGLYCERIDES	<b>166 High</b>	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
---------------	-----------------	--	-------

METHOD : GLYCEROL PHOSPHATE OXIDASE

HDL CHOLESTEROL	42	Low : < 40 High : > / = 60	mg/dL
-----------------	----	-------------------------------	-------

METHOD : ACCELERATOR SELECTIVE DETERGENT METHODOLOGY

CHOLESTEROL LDL	141		mg/dL
NON HDL CHOLESTEROL	<b>174 High</b>	Desirable: Less than 130 Above Desirable: 130-159 Borderline High: 160-189 High: 190 -219 Very High: >or = 220	mg/dL

METHOD : CALCULATED

VERY LOW DENSITY LIPOPROTEIN	33.2		mg/dL
CHOL/HDL RATIO	5.1		
LDL/HDL RATIO	3.4		

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

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**LIVER FUNCTION PROFILE, SERUM**

BILIRUBIN, TOTAL 0.41 0.2 - 1.2 mg/dL

METHOD : DIAZONIUM SALT

BILIRUBIN, DIRECT 0.18 0.0 - 0.5 mg/dL

METHOD : DIAZO REACTION

BILIRUBIN, INDIRECT 0.23 0.1 - 1.0 mg/dL

METHOD : CALCULATED

TOTAL PROTEIN 7.9 6.0 - 8.30 g/dL

METHOD : BIURET

ALBUMIN 4.3 3.5 - 5.2 g/dL

METHOD : COLORIMETRIC (BROMCRESOL GREEN)

GLOBULIN 3.6 High 2.0 - 3.5 g/dL

ALBUMIN/GLOBULIN RATIO 1.2 1 - 2.1 RATIO

METHOD : CALCULATED PARAMETER

ASPARTATE AMINOTRANSFERASE 27 5 - 34 U/L

(AST/SGOT)

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

ALANINE AMINOTRANSFERASE (ALT/SGPT) 40 0 - 55 U/L

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

ALKALINE PHOSPHATASE 61 40 - 150 U/L

METHOD : PARA-NITROPHENYL PHOSPHATE

GAMMA GLUTAMYL TRANSFERASE (GGT) 37 High 8 - 33 U/L

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

LACTATE DEHYDROGENASE 148 125 - 220 U/L

METHOD : IFCC LACTATE TO PYRUVATE

**BLOOD UREA NITROGEN (BUN), SERUM**

BLOOD UREA NITROGEN 12 7.0 - 18.7 mg/dL

METHOD : UREASE METHOD

**CREATININE, SERUM**

CREATININE 0.66 0.50 - 1.00 mg/dL

METHOD : KINETIC ALKALINE PICRATE

**BUN/CREAT RATIO**

BUN/CREAT RATIO 18.18 High 5.0 - 15.0

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**Chief Biochemist cum MRQA**

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Test Report Status	Final	Results	Biological Reference Interval	Units
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**URIC ACID, SERUM**

URIC ACID	5.2	2.6 - 6.0	mg/dL
METHOD : URICASE			

**TOTAL PROTEIN, SERUM**

TOTAL PROTEIN	7.9	6.0 - 8.3	g/dL
METHOD : BIURET			

**ALBUMIN, SERUM**

ALBUMIN	4.3	3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)			

**GLOBULIN**

GLOBULIN	<b>3.6 High</b>	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAMETER			

**ELECTROLYTES (NA/K/CL), SERUM**

SODIUM, SERUM	<b>133 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	100	98 - 107	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			

**Interpretation(s)****Interpretation(s)****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; sulfonylureas, 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.

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**Patient Ref. No. 3100004657202**



MC-2396

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8800465156**ACCESSION NO : 0031WC020259****PATIENT ID : SHOMF16068631****CLIENT PATIENT ID :****ABHA NO :****AGE/SEX : 36 Years Female****DRAWN : 25/03/2023 09:00:00****RECEIVED : 25/03/2023 09:26:44****REPORTED : 27/03/2023 14:31:35**

Test Report Status	Final	Results	Biological Reference Interval	Units
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GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-Used For:

- Evaluating the long-term control of blood glucose concentrations in diabetic patients.
- Diagnosing diabetes.
- 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 patients metabolic control has remained continuously within the target range.

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

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

- 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.
- Vitamin C & E are reported to falsely lower test results. (possibly by inhibiting glycation of hemoglobin).
- Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia, uremia, hyperbilirubinemia, chronic alcoholism, chronic ingestion of salicylates & opiates addiction are reported to interfere with some assay methods, falsely increasing results.
- 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 &amp; HbC trait.)

c) HbF &gt; 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, 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** results 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, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Pagets disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia, Malnutrition, Protein deficiency, Wilsons 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.

**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, Waldenstroms 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** 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 (preclampsia)

**Lower than normal level may be due to:**

- Myasthenia Gravis, Muscuophy

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MC-2396

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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-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,Waldenstroms 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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T3 76.4 35 - 193 ng/dL

METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

T4 7.15 Non-Pregnant Women 4.87 - 11.71 µg/dL

Pregnant Women

1st Trimester: 7.33 - 14.80

2nd Trimester: 7.93 - 16.10

3rd Trimester: 6.95 - 15.70

METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

TSH (ULTRASENSITIVE) 1.692 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****Dr. Chaitali Ray, PhD**  
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