PATIENT NAME : ANIK 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 : **0031WC020270** PATIENT ID : ANIKM09108431 CLIENT PATIENT ID: ABHA NO :	AGE/SEX : 38 Years Male DRAWN : 25/03/2023 10:00:00 RECEIVED : 25/03/2023 10:05:45 REPORTED : 27/03/2023 14:50:32

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

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

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	HTN, Raised cholesterol on medicines		
RELEVANT PAST HISTORY	Jaundice,Covid		
RELEVANT PERSONAL HISTORY	Quit smoking 3 yrs back.		
RELEVANT FAMILY HISTORY	Parents - HTN and father - Heart Disease		
OCCUPATIONAL HISTORY	NOT SIGNIFICANT		
HISTORY OF MEDICATIONS	NOT SIGNIFICANT		
ANTHROPOMETRIC DATA & BMI			
HEIGHT IN METERS	1.64		mts
WEIGHT IN KGS.	78		Kgs
BMI	29	BMI & Weight Status as follows: Below 18.5: Underweight 18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese	kg/sqmts
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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KOLKATA, 700091
WEST BENGAL, INDIA
Tel : 9111591115,
CIN - U74899PB1995PLC045956
Email : customercare.saltlake@srl.in

Patient Ref. No. 31000004657213

PATIENT NAME : ANIK DAS	**REF. DOCTOR :** SELF	
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THYROID GLAND	NOT ENLARGED		
CAROTID PULSATION	NORMAL		
TEMPERATURE	NORMAL		
PULSE	78/min-REGULAR, ALL PERIPHERAL PULSES WELL FELT		
RESPIRATORY RATE	NORMAL		
CARDIOVASCULAR SYSTEM			
BP	116/80 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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MBBS Consultant Physician

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JOINTS	NORMAL		
BASIC EYE EXAMINATION			
CONJUNCTIVA	NORMAL		
EYELIDS	NORMAL		
EYE MOVEMENTS	NORMAL		
DISTANT VISION RIGHT EYE WITH GLASSES	6/6		
DISTANT VISION LEFT EYE WITH GLASSES	6/6		
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	NORMAL		
THROAT	NO ABNORMALITY DETECTED		
TONSILS	NOT ENLARGED		
BASIC DENTAL EXAMINATION			
TEETH	NORMAL		
GUMS	HEALTHY		
SUMMARY			
RELEVANT HISTORY	HTN, Raised cholesterol on medicines		
RELEVANT GP EXAMINATION FINDINGS	Overweight (78 kg)		
RELEVANT LAB INVESTIGATIONS	Raised BIL(2.89),LDH(237),U/A(7.3),Low sodium(126),Low chloride(92)		
RELEVANT NON PATHOLOGY DIAGNOSTICS	Hepatomegaly with grade I fatty change in USG		
REMARKS / RECOMMENDATIONS	On examination and investigations the candidate is found to be overweight and has raised BIL(2.89),LDH(237),U/A(7.3), Low sodium(126),Low chloride(92) Hepatomegaly with grade I fatty change in USG Should follow the given advice: 1. Avoid fat, oily and high protein in diet 2. Reduce body weight 3. Estimated body weight should be : 68 kg 4. Regular physical exercise and walking 5. Drink sips of electral water		

Debika Roy

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Comments

MEDICAL EXAMINATION DONE BY:

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

Debika Roy

Dr. Debika Roy
MBBS Consultant Physician

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MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

Hepatomegaly with grade I fatty change

Interpretation(s)
MEDICAL
HISTORY-**********
THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVIOLABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE. HOWEVER, ALL EXAMINATIONS AND INVESTIGATIONS HAVE BEEN CONDUCTED BY OUR PANEL OF DOCTORS.

****

Debika Roy

Dr. Debika Roy
MBBS Consultant Physician

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HAEMATOLOGY - CBC

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

BLOOD COUNTS,EDTA WHOLE BLOOD

HEMOGLOBIN (HB) METHOD : SPECTROPHOTOMETRY	15.0	13.0 - 17.0	g/dL
RED BLOOD CELL (RBC) COUNT METHOD : ELECTRICAL IMPEDANCE	4.92	4.5 - 5.5	mil/µL
WHITE BLOOD CELL (WBC) COUNT METHOD : ELECTRICAL IMPEDANCE	8.03	4.0 - 10.0	thou/µL
PLATELET COUNT METHOD : ELECTRONIC IMPEDENCE & MICROSCOPY	199	150 - 410	thou/µL

RBC AND PLATELET INDICES

HEMATOCRIT (PCV) METHOD : CALCULATED	45.1	40 - 50	%
MEAN CORPUSCULAR VOLUME (MCV) METHOD : ELECTRICAL IMPEDANCE	91.7	83 - 101	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH) METHOD : CALCULATED	30.5	27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD : CALCULATED	33.3	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW) METHOD : ELECTRICAL IMPEDANCE	13.4	11.6 - 14.0	%
MENTZER INDEX	18.6		
MEAN PLATELET VOLUME (MPV) METHOD : CALCULATED	10.9	6.8 - 10.9	fL

WBC DIFFERENTIAL COUNT

NEUTROPHILS METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.	61	40 - 80	%
LYMPHOCYTES METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.	27	20 - 40	%
MONOCYTES METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.	8	2 - 10	%
EOSINOPHILS	4	1 - 6	%
BASOPHILS	0	0 - 2	%

AChatterjee

Dr.Anwesha Chatterjee,MD
Pathologist

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METHOD : FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.			
ABSOLUTE NEUTROPHIL COUNT	4.90	2.0 - 7.0	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED			
ABSOLUTE LYMPHOCYTE COUNT	2.17	1 - 3	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED			
ABSOLUTE MONOCYTE COUNT	0.64	0.20 - 1.00	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED			
ABSOLUTE EOSINOPHIL COUNT	0.32	0.02 - 0.50	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED			
ABSOLUTE BASOPHIL COUNT	**0.00 Low**	0.02 - 0.10	thou/µL
METHOD : FLOWCYTOMETRY & CALCULATED			
MORPHOLOGY			
RBC	NORMOCYTIC NORMOCHROMIC		
METHOD : MICROSCOPIC EXAMINATION			
WBC	NORMAL MORPHOLOGY		
METHOD : MICROSCOPIC EXAMINATION			
PLATELETS	ADEQUATE & 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.

AChatterjee

Dr.Anwesha Chatterjee,MD
Pathologist

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HAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD

E.S.R	2	0 - 14	mm at 1 hr

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, Vasculities, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging.
Finding a very accelerated ESR**(>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: Polycythermia 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.

AChatterjee

Dr.Anwesha Chatterjee,MD
Pathologist

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Patient Ref. No. 31000004657213

MC-2396

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IMMUNOHAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP	TYPE O		
METHOD : TUBE AGGLUTINATION			
RH TYPE	POSITIVE		
METHOD : TUBE AGGLUTINATION			

Interpretation(s)
ABO GROUP & 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.

AChatterjee

Dr.Anwesha Chatterjee,MD
Pathologist

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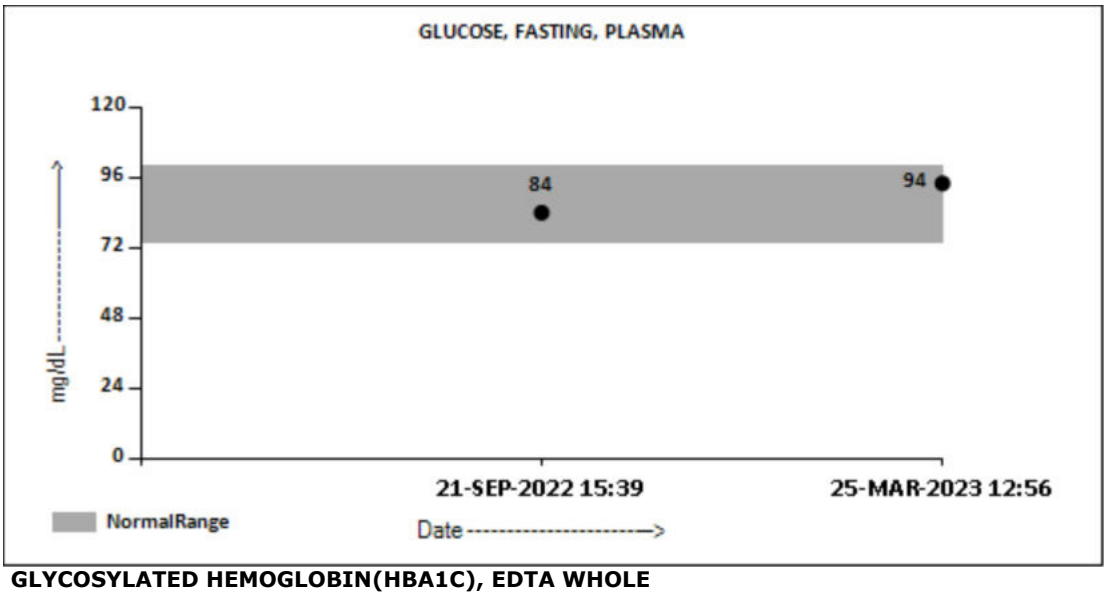
BIOCHEMISTRY

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

GLUCOSE FASTING,FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR)	94	74 - 100	mg/dL

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



GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD

HBA1C	5.1	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)	99.7	< 116.0	mg/dL

Dr. Chaitali Ray, PhD
Chief Biochemist cum MRQA

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MC-2396

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Bio-Rad Variant II Turbo CDM 5.4 S/N : 13466

PATIENT REP
V2TURBO_A1c

Patient Data

Sample ID:	3106839535
Patient ID:	0031WC020270
Name:	ANIKDAS
Physician:	
Sex:	
DOB:	

Comments:

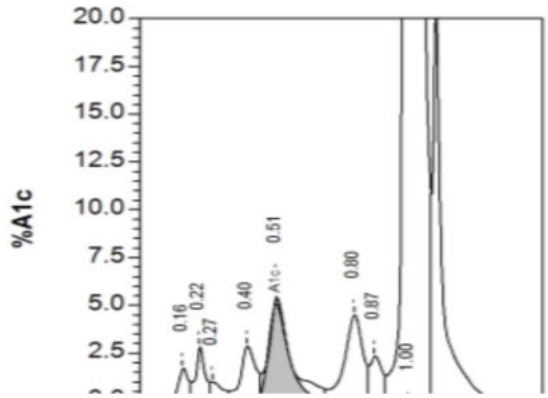
Analysis Data

Analysis Performed:	25/03/2023 12:54:10
Injection Number:	13558
Run Number:	761
Rack ID:	
Tube Number:	7
Report Generated:	25/03/2023 14:14:59
Operator ID:	

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
A1a	---	0.8	0.159	17878
A1b	---	1.1	0.220	25675
F	---	0.5	0.270	11770
LA1c	---	1.7	0.400	40454
A1c	5.1	---	0.508	99643
P3	---	3.3	0.796	76825
P4	---	1.1	0.873	26720
Ao	---	87.3	0.999	2054212

Total Area: 2,353,178

HbA1c (NGSP) = 5.1 %



Dr. Chaitali Ray, PhD
Chief Biochemist cum MRQA

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GLUCOSE, POST-PRANDIAL, PLASMA			
PPBS(POST PRANDIAL BLOOD SUGAR)	121	140 Normal 140 - 199 Pre-diabetic > or = 200 Diabetic	mg/dL
METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)			
LIPID PROFILE, SERUM			
CHOLESTEROL, TOTAL	109	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD : ENZYMATIC ASSAY			
TRIGLYCERIDES	102	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
METHOD : GLYCEROL PHOSPHATE OXIDASE			
HDL CHOLESTEROL	**36 Low**	Low : < 40 High : > / = 60	mg/dL
METHOD : ACCELERATOR SELECTIVE DETERGENT METHODOLOGY			
CHOLESTEROL LDL	53		mg/dL
NON HDL CHOLESTEROL	73	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	20.4		mg/dL
CHOL/HDL RATIO	3.0		
LDL/HDL RATIO	1.5		

Dr. Chaitali Ray, PhD
Chief Biochemist cum MRQA

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

Patient Ref. No. 31000004657213

MC-2396

PATIENT NAME : ANIK DAS **REF. DOCTOR :** SELF

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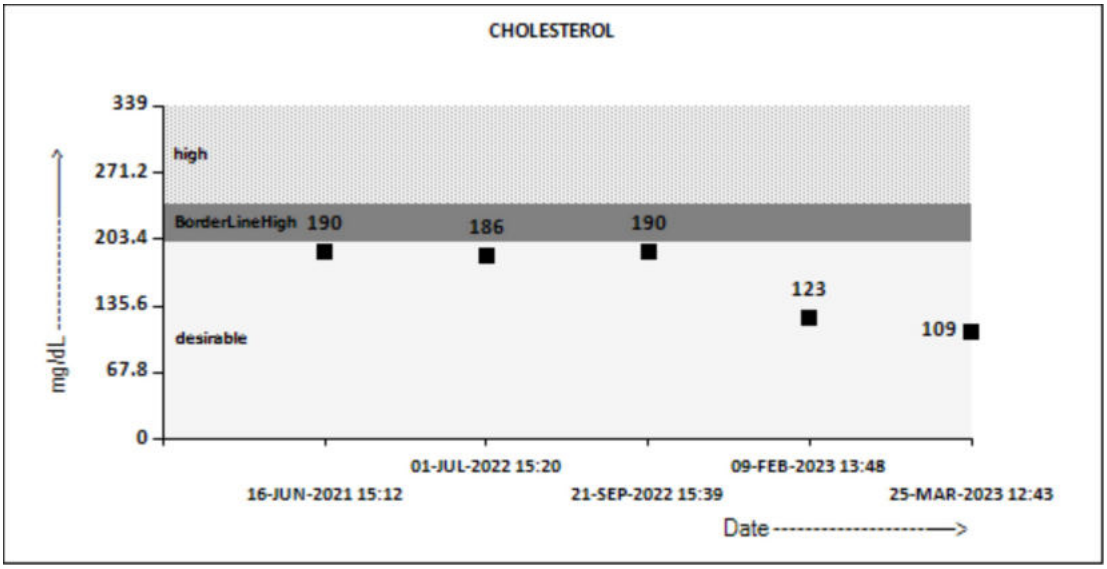

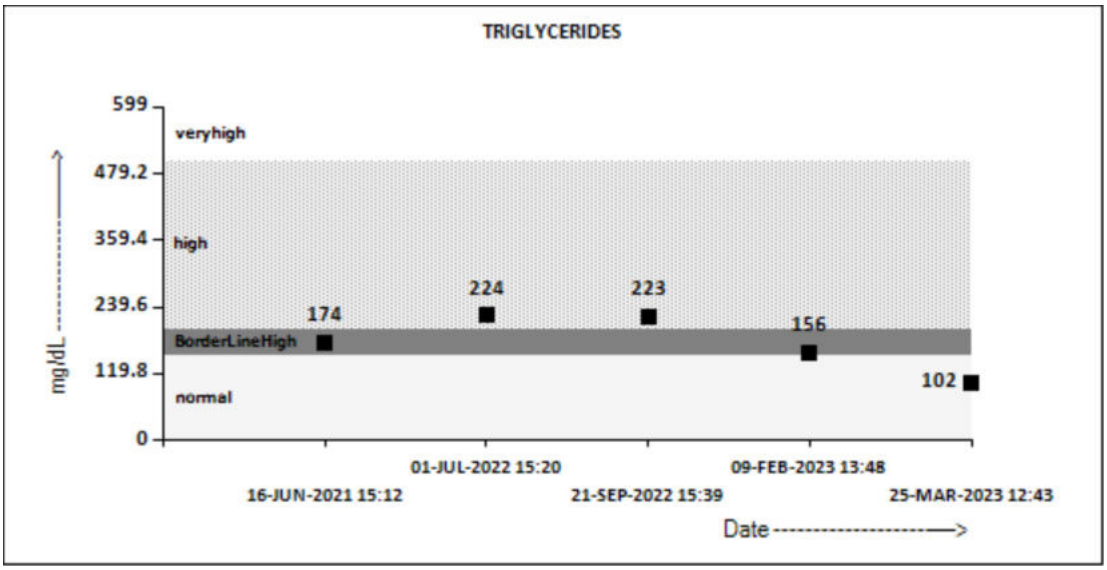

Interpretation(s)

Dr. Chaitali Ray, PhD
Chief Biochemist cum MRQA

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LIVER FUNCTION PROFILE, SERUM			
BILIRUBIN, TOTAL METHOD : DIAZONIUM SALT	**2.89 High**	0.2 - 1.2	mg/dL
BILIRUBIN, DIRECT METHOD : DIAZO REACTION	**0.70 High**	0.0 - 0.5	mg/dL
BILIRUBIN, INDIRECT METHOD : CALCULATED	**2.19 High**	0.1 - 1.0	mg/dL
TOTAL PROTEIN METHOD : BIURET	7.2	6.0 - 8.30	g/dL
ALBUMIN METHOD : COLORIMETRIC (BROMCRESOL GREEN)	4.7	3.5 - 5.2	g/dL
GLOBULIN	2.5	2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO METHOD : CALCULATED PARAMETER	1.9	1 - 2.1	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT) METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)	29	5 - 34	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT) METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)	48	0 - 55	U/L
ALKALINE PHOSPHATASE METHOD : PARA-NITROPHENYL PHOSPHATE	65	40 - 150	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT) METHOD : L-GAMMA-GLUTAMYL-4-NITROANALIDE /GLYCYLGLYCINE KINETIC METHOD	19	11 - 59	U/L
LACTATE DEHYDROGENASE METHOD : IFCC LACTATE TO PYRUVATE	**237 High**	125 - 220	U/L
BLOOD UREA NITROGEN (BUN), SERUM			
BLOOD UREA NITROGEN METHOD : UREASE METHOD	**7 Low**	8.9 - 20.6	mg/dL
CREATININE, SERUM			
CREATININE METHOD : KINETIC ALKALINE PICRATE	1.01	0.60 - 1.2	mg/dL

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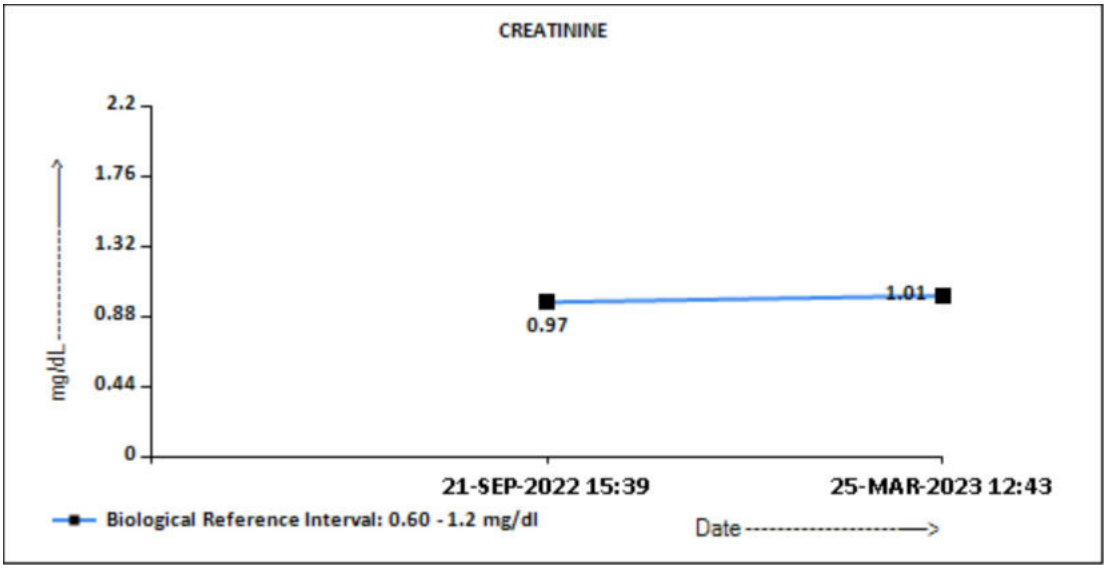

BUN/CREAT RATIO

BUN/CREAT RATIO	6.93	5.0 - 15.0	

URIC ACID, SERUM

URIC ACID	**7.3 High**	3.5 - 7.2	mg/dL
METHOD : URICASE			

TOTAL PROTEIN, SERUM

TOTAL PROTEIN	7.2	6.0 - 8.3	g/dL
METHOD : BIURET			

ALBUMIN, SERUM

ALBUMIN	4.7	3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)			

GLOBULIN

GLOBULIN	2.5	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAMETER			

ELECTROLYTES (NA/K/CL), SERUM

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SODIUM, SERUM	**126 Low**	136 - 145	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			
POTASSIUM, SERUM	3.90	3.5 - 5.1	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			
CHLORIDE, SERUM	**92 Low**	98 - 107	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			

Interpretation(s)

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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 sothat 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 Glyosuria,Glycaemic index & response to food consumed,Alimentary Hypoglycemia,Increased insulin response & sensitivity etc.
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 patients metabolic control has remained continuously within the target range.
1. eAG (Estimated average glucose) converts percentage HbA1c to md/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 :
1. 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.
2.Vitamin C & E are reported to falsely lower test results.(possibly by inhibiting glycation of hemoglobin.
3. 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.
4. 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 paltform (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 Glyosuria, 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.

Dr. Chaitali Ray, PhD
Chief Biochemist cum MRQA

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WEST BENGAL, INDIA
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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 (preeclampsia)

Lower than normal level may be due to:

• Myasthenia Gravis, Muscuophy

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.

Dr. Chaitali Ray, PhD
Chief Biochemist cum MRQA

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CLINICAL PATH - URINALYSIS

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

PHYSICAL EXAMINATION, URINE			
COLOR	PALE YELLOW		
APPEARANCE	CLEAR		
CHEMICAL EXAMINATION, URINE			
PH	6.0	4.7 - 7.5	
SPECIFIC GRAVITY METHOD : DIPSTICK	1.005	1.003 - 1.035	
PROTEIN METHOD : DIPSTICK	NOT DETECTED	NOT DETECTED	
GLUCOSE METHOD : DIPSTICK	NOT DETECTED	NOT DETECTED	
KETONES METHOD : DIPSTICK	NOT DETECTED	NOT DETECTED	
BLOOD METHOD : DIPSTICK	NOT DETECTED	NOT DETECTED	
BILIRUBIN METHOD : DIPSTICK	NOT DETECTED	NOT DETECTED	
UROBILINOGEN METHOD : DIPSTICK	NORMAL	NORMAL	
NITRITE METHOD : DIPSTICK	NOT DETECTED	NOT DETECTED	
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	1-2	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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Comments

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

Interpretation(s)

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Consultant Microbiologist

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SPECIALISED CHEMISTRY - HORMONE

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

THYROID PANEL, SERUM

T3	104.0	35 - 193	ng/dL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			
T4	8.83	4.87 - 11.71	µg/dL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			
TSH (ULTRASENSITIVE)	1.126	0.350 - 4.940	µIU/mL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			

Interpretation(s)

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