

CODE/NAME & ADDRESS: C000138363

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

DELHI

NEW DELHI 110030

8800465156

ACCESSION NO : 0031WC024743

PATIENT ID : TANIF04108231

CLIENT PATIENT ID:

AGE/SEX :40 Years Female DRAWN :30/03/2023 08:30:00 RECEIVED :30/03/2023 08:49:55

REPORTED :31/03/2023 14:20:26

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

ABHA NO

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

MAMOGRAPHY (BOTH BREASTS)
MAMOGRAPHY BOTH BREASTS

USG Breast Done - Normal

Desilve Ray

Dr. Debika Roy MBBS Consultant Physician





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F-703, LADO SARAI, MEHRAULISOUTH WEST

<u>Final</u>

DELHI

NEW DELHI 110030 8800465156

Test Report Status

ACCESSION NO: **0031WC024743**PATIENT ID : TANIF04108231

CLIENT PATIENT ID: ABHA NO :

Results

DRAWN :30/03/2023 08:30:00 RECEIVED :30/03/2023 08:49:55 REPORTED :31/03/2023 14:20:26

Female

Units

:40 Years

AGE/SEX

Biological Reference Interval

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 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

RELEVANT PAST HISTORY

RELEVANT PERSONAL HISTORY

RELEVANT FAMILY HISTORY

OCCUPATIONAL HISTORY

HISTORY OF MEDICATIONS

NOT SIGNIFICANT

NOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.52 mts
WEIGHT IN KGS. 79 Kgs

BMI 8 Weight Status as follows/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 OBESE

STATUS

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

Desite Ray

Dr. Debika Roy

MBBS Consultant Physician





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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

CARDIOVASCULAR SYSTEM

BP 136/90 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

HIGHER FUNCTIONS

CRANIAL NERVES

CEREBELLAR FUNCTIONS

SENSORY SYSTEM

MOTOR SYSTEM

REFLEXES

NORMAL

NORMAL

NORMAL

MUSCULOSKELETAL SYSTEM

CENTRAL NERVOUS SYSTEM

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Female

:40 Years

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

ABHA NO

NORMAL SPINE NORMAL JOINTS

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 Ν6 N6 NEAR VISION LEFT EYE WITH GLASSES COLOUR VISION **NORMAL**

BASIC ENT EXAMINATION

NORMAL EXTERNAL EAR CANAL TYMPANIC MEMBRANE **NORMAL**

NOSE NO ABNORMALITY DETECTED

SINUSES NORMAL

NO ABNORMALITY DETECTED THROAT

NOT ENLARGED TONSILS

BASIC DENTAL EXAMINATION

TEETH NORMAL HEALTHY GUMS

SUMMARY

NOT SIGNIFICANT RELEVANT HISTORY

Obese (79 kg), hypertensive RELEVANT GP EXAMINATION FINDINGS

RELEVANT LAB INVESTIGATIONS Low sodium(132)

RELEVANT NON PATHOLOGY DIAGNOSTICS Likely adrenal myelolipoma, Adenomyosis changes in uterus in USG

Desile Ray

Dr. Debika Roy **MBBS Consultant Physician**



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REMARKS / RECOMMENDATIONS

On examination and investigations the candidate is found to be obese, hypertensive and has low sodium (132) Likely adrenal myelolipoma, Adenomyosis changes in uterus in USG

Should follow the given advice:

- 1. Avoid fat, oil and extra salt in diet
- 2. Reduce body weight
- 3. Estimated body weight should be: 55 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

Desilve Ray

Dr. Debika Roy MBBS Consultant Physician Page 5 Of 19





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:40 Years

Female

AGE/SEX

Test Report Status Results Units <u>Final</u>

ABHA NO

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

Likely adrenal myelolipoma, Adenomyosis changes in uterus

Interpretation(s)

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.

Desilve Ray

Dr. Debika Roy **MBBS Consultant Physician**





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

H	AEMATOLOGY - CBC			
MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE				
BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)	12.0	12.0 - 15.0	g/dL	
METHOD: SPECTROPHOTOMETRY				
RED BLOOD CELL (RBC) COUNT METHOD: ELECTRICAL IMPEDANCE	4.58	3.8 - 4.8	mil/μL	
WHITE BLOOD CELL (WBC) COUNT METHOD: ELECTRICAL IMPEDANCE	9.58	4.0 - 10.0	thou/μL	
PLATELET COUNT	232	150 - 410	thou/µL	
METHOD: ELECTRONIC IMPEDENCE & MICROSCOPY				
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV)	36.6	36 - 46	%	
METHOD : CALCULATED				
MEAN CORPUSCULAR VOLUME (MCV) METHOD: ELECTRICAL IMPEDANCE	79.8 Low	83 - 101	fL	
MEAN CORPUSCULAR HEMOGLOBIN (MCH) METHOD: CALCULATED	26.1 Low	27.0 - 32.0	pg	
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD: CALCULATED	32.7	31.5 - 34.5	g/dL	
RED CELL DISTRIBUTION WIDTH (RDW) METHOD: ELECTRICAL IMPEDANCE	14.5 High	11.6 - 14.0	%	
MENTZER INDEX	17.4			
MEAN PLATELET VOLUME (MPV) METHOD: CALCULATED	10.1	6.8 - 10.9	fL	
WBC DIFFERENTIAL COUNT				
NEUTROPHILS METHOD: FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROS	67 COPY.	40 - 80	%	
LYMPHOCYTES	23	20 - 40	%	
METHOD: FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROS	COPY.			
MONOCYTES	7	2 - 10	%	
METHOD: FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROS	COPY.			
EOSINOPHILS	3	1 - 6	%	
BASOPHILS	0	0 - 2	%	
EOSINOPHILS	3	_ •		

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Dr.Anwesha Chatterjee,MD **Pathologist**





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Test Report Status <u>Final</u>	Results	Biological Reference	e Interval Units
METHOD: FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & N	MICROSCOPY.		
ABSOLUTE NEUTROPHIL COUNT	6.42	2.0 - 7.0	thou/µL
METHOD: FLOWCYTOMETRY & CALCULATED			
ABSOLUTE LYMPHOCYTE COUNT	2.20	1 - 3	thou/µL
METHOD: FLOWCYTOMETRY & CALCULATED			
ABSOLUTE MONOCYTE COUNT	0.67	0.20 - 1.00	thou/µL
METHOD: FLOWCYTOMETRY & CALCULATED			
ABSOLUTE EOSINOPHIL COUNT	0.29	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	PREDOMINANTLY NORMOCYTIC NORMOCHROMIC		
METHOD: MICROSCOPIC EXAMINATION			
WBC	NORMAL MORPHOL	OGY	
METHOD: MICROSCOPIC EXAMINATION			
PLATELETS	ADEQUATE & NORM	IAL	

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.

Achatterise

Dr. Anwesha Chatterjee, MD **Pathologist**







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Test Report Status Biological Reference Interval Final Results Units

HAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD

E.S.R 0 - 20mm 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

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)

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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Dr. Anwesha Chatterjee, MD **Pathologist**





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:40 Years

AGE/SEX

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Female

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

ABHA NO

IMMUNOHAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE O

METHOD: GEL CARD METHOD

RH TYPE **POSITIVE**

METHOD: GEL CARD METHOD

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.

Achatterise

Dr.Anwesha Chatterjee,MD **Pathologist**





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BIOCHEMISTRY

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD

HBA1C 5.3

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) 105.4 < 116.0 mg/dL

chaitalily.

Dr. Chaitali Ray, PhD Chief Biochemist cum MRQA





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AGE/SEX

:40 Years

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

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

PATIENT REP V2TURBO_A1c

Female

Patient Data

Sample ID: Patient ID: Name:

3106849401

Analysis Data Analysis Performed: Injection Number:

455 Run Number: Rack ID: 0007 Tube Number: 2

Physician: Sex: DOB:

Report Generated:

30/MAR/2023 14:56:26

30/MAR/2023 12:34:55

9797

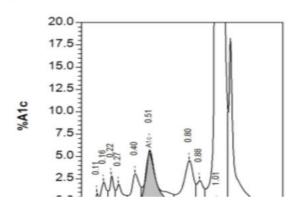
Operator ID:

Comments:

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
Unknown		0.2	0.114	2678
A1a		0.9	0.163	16006
A1b		0.9	0.222	15996
F		0.9	0.275	16169
LA1c		1.8	0.400	31527
A1c	5.3		0.506	75947
P3		3.5	0.800	61895
P4		1.1	0.878	19866
Ao		86.4	1.010	1520054

Total Area: 1,760,139

HbA1c (NGSP) = 5.3 %



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Dr. Chaitali Ray, PhD Chief Biochemist cum MRQA





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GLUCOSE FASTING,FLUORIDE PLASMA	Results Biological	Reference Interval Units
•		
<i>,</i>		
FBS (FASTING BLOOD SUGAR) 90 METHOD: ENZYMATIC (HEXOKINASE/G-6-PDH)	74 - 100	mg/dL
LIPID PROFILE, SERUM		
CHOLESTEROL, TOTAL 171		Borderline High
METHOD: ENZYMATIC ASSAY		-
TRIGLYCERIDES 114	4 < 150 Nor 150 - 199 Borderline 200 - 499 >/=500 V	High High
METHOD: GLYCEROL PHOSPHATE OXIDASE		
HDL CHOLESTEROL 48	Low : < 40 High : > /	- -
METHOD: ACCELERATOR SELECTIVE DETERGENT METHODOLOGY		
CHOLESTEROL LDL 100	0	mg/dL
NON HDL CHOLESTEROL 123 METHOD : CALCULATED	Above Des Borderline High: 190	Less than 130 mg/dL sirable: 130-159 High: 160-189 -219 : >or = 220
VERY LOW DENSITY LIPOPROTEIN 22.	.8	mg/dL
CHOL/HDL RATIO 3.6	9	
LDL/HDL RATIO 2.1	[
Interpretation(s)		
LIVER FUNCTION PROFILE, SERUM		
BILIRUBIN, TOTAL 0.5 METHOD: DIAZONIUM SALT	50 0.2 - 1.2	mg/dL
BILIRUBIN, DIRECT 0.1 METHOD: DIAZO REACTION	0.0 - 0.5	mg/dL
BILIRUBIN, INDIRECT 0.3 METHOD: CALCULATED	32 0.1 - 1.0	mg/dL

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F-703, LADO SARAI, MEHRAULISOUTH WEST

DELHI

NEW DELHI 110030 8800465156 ACCESSION NO: **0031WC024743**PATIENT ID : TANIF04108231

CLIENT PATIENT ID: ABHA NO : AGE/SEX :40 Years Female
DRAWN :30/03/2023 08:30:00
RECEIVED :30/03/2023 08:49:55
REPORTED :31/03/2023 14:20:26

Test Report Status <u>Final</u>	Results	Biological Reference Interval Units		
TOTAL PROTEIN	8.0	6.0 - 8.30	g/dL	
METHOD : BIURET	0.0	0.0 0.00	5, -	
ALBUMIN METHOD: COLORIMETRIC (BROMCRESOL GREEN)	4.6	3.5 - 5.2	g/dL	
GLOBULIN	3.4	2.0 - 3.5	g/dL	
ALBUMIN/GLOBULIN RATIO METHOD: CALCULATED PARAMETER	1.4	1 - 2.1	RATIO	
ASPARTATE AMINOTRANSFERASE (AST/SGOT) METHOD: ENZYMATIC (NADH (WITHOUT P-5'-P)	24	5 - 34	U/L	
ALANINE AMINOTRANSFERASE (ALT/SGPT) METHOD: ENZYMATIC (NADH (WITHOUT P-5'-P)	15	0 - 55	U/L	
ALKALINE PHOSPHATASE METHOD: PARA-NITROPHENYL PHOSPHATE	71	40 - 150	U/L	
GAMMA GLUTAMYL TRANSFERASE (GGT) METHOD: L-GAMMA-GLUTAMYL-4-NITROANALIDE /GLYCYLGLYCII	17 NE KINETIC METHOD	8 -33	U/L	
LACTATE DEHYDROGENASE METHOD: IFCC LACTATE TO PYRUVATE	155	125 - 220	U/L	
BLOOD UREA NITROGEN (BUN), SERUM				
BLOOD UREA NITROGEN METHOD: UREASE METHOD	10	7.0 - 18.7	mg/dL	
CREATININE, SERUM				
CREATININE METHOD: KINETIC ALKALINE PICRATE	0.74	0.50 - 1.00	mg/dL	
BUN/CREAT RATIO				
BUN/CREAT RATIO	13.51	5.0 - 15.0		
URIC ACID, SERUM				
URIC ACID METHOD: URICASE	5.6	2.6 - 6.0	mg/dL	
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN METHOD: BIURET	8.0	6.0 - 8.3	g/dL	

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Dr. Chaitali Ray, PhD Chief Biochemist cum MRQA





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KOLKATA, 700091
WEST BENGAL, INDIA





REF. DOCTOR: SELF PATIENT NAME: TANIMA LAMA

CODE/NAME & ADDRESS: C000138363 ACROFEMI HEALTHCARE LTD (MEDIWHEEL) F-703, LADO SARAI, MEHRAULISOUTH WEST

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Test Report Status Results **Biological Reference Interval Final** Units **ALBUMIN, SERUM** ALBUMIN 4.6 3.5 - 5.2q/dL METHOD: COLORIMETRIC (BROMCRESOL GREEN) GLOBULIN 3.4 2.0 - 3.5g/dL GLOBULIN METHOD: CALCULATED PARAMETER **ELECTROLYTES (NA/K/CL), SERUM** SODIUM, SERUM 132 Low 136 - 145 mmol/L METHOD: ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT mmol/L POTASSIUM, SERUM 3.60 3.5 - 5.1METHOD: ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT CHLORIDE, SERUM 102 98 - 107 mmol/L METHOD: ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT

Interpretation(s)

Interpretation(s)

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.

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

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

ABHA NO

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

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 in sufficiency, 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 glucosé 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. 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) billiubin is alevated more than unconjugated (indirect) billiubin 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) billirubin 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

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-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""""""" 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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View Report



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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

DETECTED (TRACE) BLOOD NOT DETECTED

METHOD : DIPSTICK

NOT DETECTED **BILIRUBIN** NOT DETECTED

METHOD: DIPSTICK

UROBILINOGEN NORMAL NORMAL

METHOD: DIPSTICK

NITRITE NOT DETECTED NOT DETECTED

METHOD : DIPSTICK

NEGATIVE NOT DETECTED LEUKOCYTE ESTERASE

MICROSCOPIC EXAMINATION, URINE

0 - 1 /HPF RED BLOOD CELLS **NOT DETECTED** /HPF PUS CELL (WBC'S) 2-3 0-5 EPITHELIAL CELLS /HPF 0-1 0 - 5

NOT DETECTED **CASTS** NOT DETECTED **CRYSTALS**

BACTERIA NOT DETECTED NOT DETECTED NOT DETECTED NOT DETECTED YEAST

Himori Moran

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



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Comments

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

Interpretation(s)

Himori Moran

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





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ABHA NO

SPECIALISED CHEMISTRY - HORMONE

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

THYROID PANEL, SERUM

T3 85.8 35 - 193 ng/dL

METHOD: TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

T4 6.43 Non-Pregnant Women μg/dL

4.87 - 11.71 Pregnant Women

1st Trimester: 7.33 - 14.80 2nd Trimester: 7.93 - 16.10 3rd Trimester: 6.95 - 15.70

AGE/SEX

METHOD: TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

TSH (ULTRASENSITIVE) 3.278 0.350 - 4.940 μ IU/mL

 ${\tt METHOD: TWO-STEP\ CHEMILUMINESCENT\ MICROPARTICLE\ IMMUNOASSAY}$

Interpretation(s)

End Of Report
Please visit www.srlworld.com for related Test Information for this accession

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