CODE/NAME & ADDRESS : C000138394

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

DELHİ

NEW DELHI 110030 8800465156 ACCESSION NO : 0181WE000440

PATIENT ID : RUPAF130590181

CLIENT PATIENT ID: ABHA NO : AGE/SEX :33 Years Female

DRAWN :

RECEIVED: 13/05/2023 09:18:42 REPORTED: 16/05/2023 13:36:23

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 NEGATIVE

**ECG** 

ECG WITHIN NORMAL LIMITS

MEDICAL HISTORY

RELEVANT PRESENT HISTORY h/o migraine.
RELEVANT PAST HISTORY NOT SIGNIFICANT

RELEVANT PERSONAL HISTORY MARRIED / 1 CHILD / MIXED DIET / NO ALLERGIES / NO SMOKING / NO

ALCOHOL.

MENSTRUAL HISTORY (FOR FEMALES)28 days.LMP (FOR FEMALES)20/03/2023.OBSTETRIC HISTORY (FOR FEMALES)C-SECTION

RELEVANT FAMILY HISTORY HIGH BLOOD PRESSURE : FATHER.

DIABETES : MOTHER. THYROID : MOTHER.

HISTORY OF MEDICATIONS VOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS1.61mtsWEIGHT IN KGS.60KgsBMI23BMI & 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
STATUS

BUILT / SKELETAL FRAMEWORK AVERAGE FACIAL APPEARANCE NORMAL

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PERFORMED AT:

SRL Ltd S.K. Tower,Hari Niwas, LBS Marg THANE, 400602 MAHARASHTRA, INDIA

Tel: 9111591115, Fax: CIN - U74899PB1995PLC045956



CODE/NAME & ADDRESS : C000138394 ACCESSION NO : 0181WE000440 AGE/SEX

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )

F-703, F-703, LADO SARAI, MEHRAULISOUTH WEST

DELHÍ

NEW DELHI 110030 8800465156 ACCESSION NO : U181WEUUU44U

PATIENT ID : RUPAF130590181

CLIENT PATIENT ID: ABHA NO : AGE/SEX :33 Years Female

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SKIN NORMAL UPPER LIMB NORMAL LOWER LIMB NORMAL NECK NORMAL

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER

THYROID GLAND NOT ENLARGED

CAROTID PULSATION NORMAL

TEMPERATURE NORMAL

PULSE 74/MIN.REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID

3RUIT

RESPIRATORY RATE NORMAL

CARDIOVASCULAR SYSTEM

**BP** 112/70 MM HG mm/Hg

(SUPINE) Normal

PERICARDIUM NORMAL
APEX BEAT NORMAL
HEART SOUNDS NORMAL
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

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CEREBELLAR FUNCTIONS NORMAL NORMAL SENSORY SYSTEM NORMAL MOTOR SYSTEM NORMAL REFLEXES

MUSCULOSKELETAL SYSTEM

SPINE NORMAL **JOINTS** NORMAL BASIC EYE EXAMINATION

CONJUNCTIVA NORMAL **EYELIDS** NORMAL NORMAL EYE MOVEMENTS CORNEA NORMAL

WITHIN NORMAL LIMIT DISTANT VISION RIGHT EYE WITHOUT

GLASSES

WITHIN NORMAL LIMIT DISTANT VISION LEFT EYE WITHOUT

**GLASSES** 

NEAR VISION RIGHT EYE WITHOUT GLASSES WITHIN NORMAL LIMIT NEAR VISION LEFT EYE WITHOUT GLASSES WITHIN NORMAL LIMIT NEAR VISION RIGHT EYE WITH GLASSES GLASSES NOT BROUGHT GLASSES NOT BROUGHT NEAR VISION LEFT EYE WITH GLASSES

NORMAL COLOUR VISION

SUMMARY

NOT SIGNIFICANT RELEVANT HISTORY RELEVANT GP EXAMINATION FINDINGS NOT SIGNIFICANT

DRINK 2-3 LITRE WATER DAILY. REMARKS / RECOMMENDATIONS

REPEAT URINE ROUTINE AFTER 15 DAYS

ANNUAL USG PELVIS TO MONITOR UTERINE FIBROID.

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

ULTRASOUND ABDOMEN ULTRASOUND ABDOMEN SMALL SUBSEROSAL UTERINE FIBROID. NO OTHER SIGNIFICANT ABNORMALITY IS SEEN.

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.

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

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Female

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HAEMATOLOGY - CBC							
MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE							
BLOOD COUNTS,EDTA WHOLE BLOOD							
HEMOGLOBIN (HB)	13.3	12.0 - 15.0	g/dL				
METHOD: SLS- HEMOGLOBIN DETECTION METHOD	4.04 15						
RED BLOOD CELL (RBC) COUNT  METHOD: HYDRODYNAMIC FOCUSING BY DC DETECTION	4.81 High	3.8 - 4.8	mil/μL				
WHITE BLOOD CELL (WBC) COUNT	11.01 High	4.0 - 10.0	thou/µL				
METHOD : PLUORESCENCE FLOW CYTOMETRY	<b>9</b>	25.5					
PLATELET COUNT	406	150 - 410	thou/µL				
METHOD: HYDRODYNAMIC FOCUSING BY DC DETECTION							
RBC AND PLATELET INDICES			-				
HEMATOCRIT (PCV)	41.4	36.0 - 46.0	%				
METHOD: CUMULATIVE PULSE HEIGHT DETECTION METHOD  MEAN CORPUSCULAR VOLUME (MCV)	86.1	83.0 - 101.0	tL				
METHOD : CALCULATED FROM RBC & HCT	00.1	05.0 - 101.0	12				
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	27.7	27.0 - 32.0	pg				
METHOD: CALCULATED FROM THE RBC & HGB							
MEAN CORPUSCULAR HEMOGLOBIN	32.1	31.5 - 34.5	g/dL				
CONCENTRATION (MCHC)  METHOD: CALCULATED FROM THE HGB & HCT							
RED CELL DISTRIBUTION WIDTH (RDW)	13.0	11.6 - 14.0	%				
METHOD: CALCULATED FROM RBC SIZE DISTRIBUTION CURVE							
MENTZER INDEX	17.9						
MEAN PLATELET VOLUME (MPV)	9.8	6.8 - 10.9	†L				
METHOD: CALCULATED FROM PLATELET COUNT & PLATELET HEM/ WBC DIFFERENTIAL COUNT	ATOCRIT						
NEUTROPHILS	70	40 - 80	%				
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING			0/				
LYMPHOCYTES	23	20 - <b>4</b> 0	%				
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING MONOCYTES	5	2 - 10	%				
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING	3	2 10	,0				
EOSINOPHILS	2	1 - 6	%				
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING							
ABSOLUTE NEUTROPHIL COUNT	7.71 High	2.0 - 7.0	thou/µL				
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING  ABSOLUTE LYMPHOCYTE COUNT	2.50	1.0 - 3.0	thou/µL				
ABSOLUTE LIMPHOCTTE COUNT	∠.30	1.0 - 3.0	u iou/µL				



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Dr.Priyal Chinchkhede Consultant Pathologist





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F-703, F-703, LADO SARAI, MEHRAULISOUTH WEST

DELHI

NEW DELHI 110030

8800465156

ACCESSION NO: 0181WE000440

PATIENT ID : RUPAF130590181

CLIENT PATIENT ID: ABHA NO

AGE/SEX :33 Years

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Test Report Status	Final	Results	Biological Reference Interval	Units

METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING

ABSOLUTE MONOCYTE COUNT 0.55 0.2 - 1.0thou/µL

METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING

ABSOLUTE EOSINOPHIL COUNT 0.16 0.02 - 0.50thou/µL

3.1

METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING NEUTROPHIL LYMPHOCYTE RATIO (NLR)

MORPHOLOGY

**RBC** NORMOCYTIC NORMOCHROMIC

WBC NORMAL MORPHOLOGY

METHOD: MICROSCOPIC EXAMINATION

**ADEQUATE** PLATELETS

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 differentiatic cases of Iron deficiency anaemia(>13) from Beta thal assaemia 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.



Dr.Priyal Chinchkhede Consultant Pathologist





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E.S.R

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ACCESSION NO: 0181WE000440

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< 20

CLIENT PATIENT ID:

ABHA NO

AGE/SEX :33 Years

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Female

mm at 1 hr

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

# HAEMATOLOGY

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

# ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE

BLOOD

METHOD: MODIFIED WESTERGREN

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)

### 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 Dadie and Lewis, 10th edition.



Dr.Priyal Chinchkhede Consultant Pathologist





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Female

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

# **IMMUNOHAEMATOLOGY**

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

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE B

METHOD: GEL COLUMN AGGLUTINATION METHOD.

**POSITIVE** RH TYPE

METHOD: GEL COLUMN AGGLUTINATION 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 womer 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.

Bhindhehede.

Dr.Priyal Chinchkhede Consultant Pathologist





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ACCESSION NO: 0181WE000440

PATIENT ID : RUPAF130590181

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

BIOCHEMISTRY

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

GLUCOSE FASTING, FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR) 93 Normal 75 - 99 mg/dL

Pre-diabetics: 100 - 125 Diabetic: > or = 126

METHOD: ENZYMATIC REFERENCE METHOD WITH HEXOKINASE

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

METHOD: CALCULATED PARAMETER
GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR) 105 70 - 139 mg/dL

METHOD: ENZYMATIC REFERENCE METHOD WITH HEXOKINASE

LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL 153 Desirable: < 200 mg/dL

Borderline : 200 - 239 High : > / = 240

METHOD: ENZYMATIC COLORIMETRIC ASSAY

TRIGLYCERIDES 63 Normal: < 150 mg/dL

Borderline high: 150 - 199

High: 200 - 499 Very High: >/= 500

METHOD: ENZYMATIC COLORIMETRIC ASSAY

HDL CHOLESTEROL 44 At Risk: < 40 mg/dL

Desirable: > or = 60

METHOD: ENZYMATIC, COLORIMETRIC

Dr. Ushma Wartikar Consultant Pathologist Dhindrehede.

Dr.Priyal Chinchkhede Consultant Pathologist Ahajam

Dr.(Mrs)Neelu K Bhojani Lab Head





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NEW DELHI 110030 8800465156 ACCESSION NO : **0181WE000440** 

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Female

8800465156			
Test Report Status <u>Final</u>	Results	Biological Reterence Interva	l Units
CHOLESTEROL LDL	96	Adult levels: Optimal < 100 Near optimal/above optimal 100-129 Borderline high: 130-159 High: 160-189 Very high: = 190	mg/dL :
METHOD : ENZYMATIC COLORIMETRIC ASSAY  NON HDL CHOLESTEROL	109	Desirable : < 130 Above Desirable : 130 -159 Borderline High : 160 - 189 High : 190 - 219 Very high : > / = 220	mg/dL
VERY LOW DENSITY LIPOPROTEIN	12.6	< OR = 30.0	mg/dL
CHOL/HDL RATIO	3.5	Low Risk: 3.3 - 4.4 Average Risk: 4.5 - 7.0 Moderate Risk: 7.1 - 11.0 High Risk: > 11.0	
LDL/HDL RATIO  Interpretation(s)	2.2	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderat Risk >6.0 High Risk	
LIVER FUNCTION PROFILE, SERUM			
BILIRUBIN, TOTAL  METHOD: COLORIMETRIC DIAZO	0.36	Upto 1.2	mg/dL
BILIRUBIN, DIRECT	0.25	< 0.30	mg/dL
BILIRUBIN, INDIRECT	0.11	0.1 - 1.0	mg/dL
TOTAL PROTEIN  METHOD: COLORIMETRIC	7.5	6.0 - 8.0	g/dL
ALBUMIN METHOD: COLORIMETRIC	4.5	3.97 - 4.94	g/dL
GLOBULIN	3.0	2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO	1.5	1.0 - 2.1	RATIO
ASPARTATE AMINOTRANSFERASE(AST/SGOT) METHOD: UV ABSORBANCE	15	< OR = 35	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT) METHOD: UV ABSORBANCE	13	< OR = 35	U/L

Dr. Ushma Wartikar Consultant Pathologist

Bhinchkhede.

Dr.Priyal Chinchkhede Consultant Pathologist Dr.(Mrs)Neelu K Bh

Dr.(Mrs)Neelu K Bhojani Lab Head





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PATIENT NAME: RUPALI CHAUDHARI

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NEW DELHI 110030 8800465156

REF. DOCTOR: SELF

ACCESSION NO: 0181WE000440 PATIENT ID :RUPAF130590181

CLIENT PATIENT ID: ABHA NO

AGE/SEX DRAWN

:33 Years

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	i		
Test Report Status <u>Final</u>	Results	Biological Reterence Int	erval Units
ALKALINE PHOSPHATASE	94	35 - 104	U/L
METHOD: COLORIMETRIC  GAMMA GLUTAMYL TRANSFERASE (GGT)  METHOD: ENZYMATIC, COLORIMETRIC	16	0 - 40	U/L
LACTATE DEHYDROGENASE  METHOD: UV ABSORBANCE  BLOOD UREA NITROGEN (BUN), SERUM	146	125 - 220	U/L
BLOOD UREA NITROGEN  METHOD: ENZYMATIC ASSAY  CREATININE, SERUM	6	6 - 20	mg/dL
CREATININE  METHOD: COLORIMETRIC  BUN/CREAT RATIO	0.57	0.5 - 0.9	mg/dL
BUN/CREAT RATIO URIC ACID, SERUM	10.53	8.0 - 15.0	
URIC ACID  METHOD: ENZYMATIC COLORIMETRIC ASSAY  TOTAL PROTEIN, SERUM	3.8	2.4 - 5.7	mg/dL
TOTAL PROTEIN  METHOD: COLORIMETRIC  ALBUMIN, SERUM	7.5	6.0 - 8.0	g/dL
ALBUMIN  METHOD: COLORIMETRIC GLOBULIN	4.5	3.97 - 4.94	g/dL
GLOBULIN ELECTROLYTES (NA/K/CL), SERUM	3.0	2.0 - 3.5	g/dL
SODIUM, SERUM	140	136 - 145	mmol/L
POTASSIUM, SERUM	4.40	3.5 - 5.1	mmol/L
CHLORIDE, SERUM Interpretation(s)	103	98 - 107	mmol/L
Sodium Potassium	(	hloride	

Dr. Ushma Wartikar Consultant Pathologist

PERFORMED AT:

Dhinchkhede.

Dr.Priyal Chinchkhede Consultant Pathologist

Dr.(Mrs)Neelu K Bhojani Lab Head





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Units

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

Decreased in:CCF, cirrhosis, vomiting, diarrhea, excessive sweating, salt-losing nephropathy, adrenal insufficiency, nephrotic syndrome, water intoxication, SIADH. Drugs: thiazides, diuretics, ACE inhibitors, chlorpropamide, carbamazepine, antidepressants (SSRI), antipsychotics.	Decreased in: Low potassium intake, prolonged vomiting or diarrhea, RIA types I and II, hyperaldosteronism, Cushing's syndrome, osmotic diuresis (e.g., hyperglycemia), alkalosis, familial periodic paralysis, trauma (transient). Drugs: Adrenergic agents, diuretics.	Decreased in: Vomiting, diarrhea, renal failure combined with salt deprivation, over-treatment with diuretics, chronic respiratory acidosis, diabetic ketoacidosis, excessive sweating, SIADH, salt-losing nephropathy, porphyria, expansion of extracellular fluid volume, adrenalinsufficiency, hyperaldosteronism, metabolic alkalosis. Drugs: chronic laxative, corticosteroids, diuretics.
Increased in: Dehydration (excessives weating, severe vomiting or diarrhea), diabetes mellitus, diabetes insipidus, hyperaldosteronism, inadequate water intake. Drugs: steroids, licorice, oral contraceptives.	Increased in: Massive hemolysis, severe tissue damage, rhabdomyolysis, acidosis, dehydration,renal failure, Addison's disease, RTA type IV, hyperkalemic familial periodic paralysis. Drugs: potassium salts, potassium sparing diuretics, MSAIDs, beta-blockers, ACE inhibitors, highdose trimethoprim-sulfamethoxazole.	Increased in: Renal failure, nephrotic syndrome, RTA, dehydration, overtreatment with saline, hyperparathyroidism, diabetes insipidus, metabolic acidosis from diarrhea (Loss of HCO3-), respiratory alkalosis, hyperadrenocorticism. Drugs: acetazolamide, androgens, hydrochlorothiazide, salicylates.
Interferences: Severe lipemia or hyperproteinemi, if sodium analysis involves a dilution step can cause spurious results. The serum sodium falls about 1.6 mEq/L for each 100 mg/dL increase in blood glucose.	Interferences: Hemolysis of sample, delayed separation of serum, prolonged fist clenching during blood drawing, and prolonged tourniquet placement. Very high WBC/PLT counts may cause spurious. Plasma potassium levels are normal.	Interferences: lest is helpful in assessing normal and increased anion gap metabolic acidosis and in distinguishing hypercalcemia due to hyperparathyroidism (high serum chloride) from that due to malignancy (Normal serum chloride)

#### Interpretation(s)

GLUCOSE FASTING, FLUORIDE PLASMA-TEST DESCRIPTION

Normally, the glucose concentration in extracellular fluic 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 insufficiency, hypopituitarism, diffuse liver disease,

malignancy(adrenocortical, stomach, hibrosarcoma), 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 Glycsuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc. GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-**Used For:** 

- Evaluating the long-term control of blood glucose concentrations in diabetic patients.
   Dragnosing diabetes.

3. Identifying patients at increased risk for diabetes (prediabetes).
The ADA recommends in easurement 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-controllec 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:

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.

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MUMBAI, 400078 MAHARASHTRA, INDIA

CIN - U74899PB1995PLC045956



CODE/NAME & ADDRESS : C000138394 ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )

F-703, F-703, LADO SARAI, MEHRAULISOUTH WEST

DELHI

NEW DELHI 110030 8800465156

ACCESSION NO: 0181WE000440

PATIENT ID :RUPAF130590181

LIENT PATIENT ID:

AGE/SEX :33 Years

DRAWN

Female

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ABHA NO

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 tasting glucose level in comparison to post prandial glucose level may be seer due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glyosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increasec insulin response & sensitivity etc. Additional test HbA1c LIVER FUNCTION PROFILE, SERUM-

Bilirubin is a yellowish proment 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 rec 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 seer

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, billiary 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 blooc flow, Loss of body fluic (dehydration), Muscle problems, such

as breakdown of muscle fibers, Problems during pregnancy, such as seizures (eclampsia)), or high blooc pressure caused by pregnancy (preeclampsia)

Lower than normal level may be due to: Myasthenia Gravis, Muscuophy

URIC ACID, SERUM-Causes of Increased levels-Dietarry(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 Sciences

TOTAL PROTEIN, SERUM-is a biochemical test for measuring the total amount of 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, SERUMHuman 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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# CLINICAL PATH - URINALYSIS

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

PHYSICAL EXAMINATION, URINE

COLOR YELLOWISH SLIGHTLY HAZY APPEARANCE

CHEMICAL EXAMINATION, URINE

PΗ 5.00 - 7.50 6.0 1.010 - 1.030 SPECIFIC GRAVITY 1.015

METHOD: URINE ROUTINE & MICROSCOPY EXAMINATION BY INTEGRATED AUTOMATED SYSTEM

NOT DETECTED PROTEIN NOT DETECTED **GLUCOSE** NOT DETECTED NOT DETECTED KETONES NOT DETECTED NOT DETECTED **BLOOD** NOT DETECTED NOT DETECTED UROBILINOGEN NORMAL NORMAL

NITRITE NOT DETECTED NOT DETECTED DETECTED (++) NOT DETECTED LEUKOCYTE ESTERASE

MICROSCOPIC EXAMINATION, URINE

NOT DETECTED /HPF **RED BLOOD CELLS** NOT DETECTED 15-20 /HPF PUS CELL (WBC'S) 0-5 **EPITHELIAL CELLS** 10-15 0 - 5/HPF

NOT DETECTED CASTS **CRYSTALS** NOT DETECTED

**BACTERIA** NOT DETECTED NOT DETECTED YEAST NOT DETECTED NOT DETECTED

METHOD: URINE ROUTINE & MICROSCOPY EXAMINATION BY INTEGRATED AUTOMATED SYSTEM

Interpretation(s)



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Dr.(Mrs)Neelu K Bhojani Lab Head





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CYTOLOGY

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

PAPANICOLAOU SMEAR

TEST METHOD SNR

METHOD: MICROSCOPIC EXAMINATION

Phinchkhede.

Dr.Priyal Chinchkhede Consultant Pathologist





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# CLINICAL PATH - STOOL ANALYSIS

# MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

MICROSCOPIC EXAMINATION, STOOL

REMARK

SAMPLE NOT RECEIVED

Interpretation(s)

Dr. Sheetal Sawant Consultant Microbiologist



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PERFORMED AT:

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# SPECIALISED CHEMISTRY - HORMONE

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

THYROID PANEL, SERUM

T3 136.0 Non-Pregnant Women ng/dL

80.0 - 200.0 Pregnant Women

1st Trimester: 105.0 - 230.0 2nd Trimester: 129.0 - 262.0 3rd Trimester: 135.0 - 262.0

METHOD: ELECTROCHEMILUMINESCENCE

T4 8.38 Non-Pregnant Women μg/dL

5.10 - 14.10 Pregnant Women

1st Trimester: 7.33 - 14.80 2nd Trimester: 7.93 - 16.10

2nd Trimester: 7.93 - 16.10 3rd Trimester: 6.95 - 15.70

METHOD: ELECTROCHEMILUMINESCENCE

TSH (ULTRASENSITIVE) 2.370 Non Pregnant Women  $\mu$ IU/mL

0.27 - 4.20 Pregnant Women

1st Trimester: 0.33 - 4.59 2nd Trimester: 0.35 - 4.10 3rd Trimester: 0.21 - 3.15

METHOD: ELECTROCHEMILUMINESCENCE

Interpretation(s)

**Triiodothyronine T3**, **Thyroxine T4**, and **Thyroid Stimulating Hormone TSH** are thyroid hormones which affect almost every physiological process in the body, including growth, development, metabolism, body temperature, and heart rate.

Production of T3 and its prohormone thyroxine (T4) is activated by thyroid-stimulating hormone (TSII), which is released from the pituitary gland. Elevated concentrations of T3, and T4 in the blood inhibit the production of TSII.

Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called hypothyroidism.

In primary hypothyroidism, TSII levels are significantly elevated, while in secondary and tertiary hyperthyroidism, TSII levels are low. owidetlparowidetlparBelow mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3. Measurement of the serum TT3 level is a more sensitive test for the diagnosis of hyperthyroidism, and measurement of TT4 is more useful in the diagnosis of hypothyroidism. Most of the thyroid hormone in blood is bound to transport proteins. Only a very small fraction of the circulating hormone is free and biologically active. It is advisable to detect Free T3, FreeT4 along with TSII, instead of testing for albumin bound Total T3, Total T4.

Sr. No.	TSH	Total T4	FT4	Total T3	Possible Conditions
I	High	Low	Low	Low	(1) Primary Hypothyroidism (2) Chronic autoimmune Thyroiditis (3) Post Thyroidectomy (4) Post Radio-Iodine treatment

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2	High	Normal	Normal	Normal	(1)Subclinical Hypothyroidism (2) Patient with insufficient thyroid hormone replacement therapy (3) In cases of Autoimmune/Hashimoto thyroiditis (4). Isolated increase in TSH levels can be due to Subclinical inflammation, drugs like amphetamines, Iodine containing drug and dopamine antagonist e.g. domperidone and other physiological reasons.
3	Normal/Low	Low	Low	Low	(1) Secondary and Tertiary Hypothyroidism
4	Low	lligh	High	lligh	(1) Primary Hyperthyroidism (Graves Disease) (2) Multinodular Goitre (3)Toxic Nodular Goitre (4) Thyroiditis (5) Over treatment of thyroid hormone (6) Drug effect e.g. Glucocorticoids, dopamine, T4 replacement therapy (7) First trimester of Pregnancy
5	Low	Normal	Normal	Normal	(1) Subclinical Hyperthyroidism
6	High	High	High	High	(1) TSH secreting pituitary adenoma (2) TRH secreting tumor
7	Low	Low	Low	Low	(1) Central Hypothyroidism (2) Euthyroid sick syndrome (3) Recent treatment for Hyperthyroidism
8	Normal/Low	Normal	Normal	lligh	(1) T3 thyrotoxicosis (2) Non-Thyroidal illness
9	Low	High	High	Normal	(1) T4 Ingestion (2) Thyroiditis (3) Interfering Anti TPO antibodies

REF: 1. TIETZ Fundamentals of Clinical chemistry 2. Guidlines of the American Thyroid association during pregnancy and Postpartum, 2011. NOTE: It is advisable to detect Free T3, FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4.TSH is not affected by variation in thyroid - binding protein. TSH has a diurnal rhythm, with peaks at 2:00 - 4:00 a.m. And troughs at 5:00 - 6:00 p.m. With ultradian variations.

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