



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

Tel: 9111591115, Fax: CIN - U74899PB1995PLC045956

Email: customercare.thane@srl.in

PATIENT NAME: MADHAVI S SAWARDEKAR PATIENT ID: MADHF010663181

ACCESSION NO: **0181WB001082** AGE: 59 Years SEX: Female

DRAWN: RECEIVED: 25/02/2023 09:22 REPORTED: 01/03/2023 16:39

REFERRING DOCTOR: SELF CLIENT PATIENT ID:

Test Report Status Final Results Biological Reference Interval Units

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

BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)	12.3		12.0 - 15.0	g/dL
METHOD: SLS-HEMOGLOBIN DETECTION METHOD				
RED BLOOD CELL (RBC) COUNT	4.53		3.8 - 4.8	mil/µL
METHOD: HYDRODYNAMIC FOCUSING BY DC DETECTION				
WHITE BLOOD CELL (WBC) COUNT	6.88		4.0 - 10.0	thou/µL
METHOD: FLUORESCENCE FLOW CYTOMETRY				
PLATELET COUNT	268		150 - 410	thou/µL
METHOD: HYDRODYNAMIC FOCUSING BY DC DETECTION				
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV)	39.4		36.0 - 46.0	%
METHOD : CUMULATIVE PULSE HEIGHT DETECTION METHOD				
MEAN CORPUSCULAR VOLUME (MCV)	87.0		83.0 - 101.0	fL
METHOD: CALCULATED FROM RBC & HCT				
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	27.2		27.0 - 32.0	pg
METHOD: CALCULATED FROM THE RBC & HGB				
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD: CALCULATED FROM THE HGB & HCT	31.2	Low	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW)	13.2		11.6 - 14.0	%
METHOD: CALCULATED FROM RBC SIZE DISTRIBUTION CURVE				
MENTZER INDEX	19.2			
MEAN PLATELET VOLUME (MPV)	10.1		6.8 - 10.9	fL
METHOD: CALCULATED FROM PLATELET COUNT & PLATELET HEMAT	OCRIT			
WBC DIFFERENTIAL COUNT				
NEUTROPHILS	49		40 - 80	%
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING				
LYMPHOCYTES	41	High	20 - 40	%
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING				
MONOCYTES	5		2 - 10	%
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING				
EOSINOPHILS	5		1 - 6	%
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING				
ABSOLUTE NEUTROPHIL COUNT	3.39		2.0 - 7.0	thou/µL
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING				



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ABSOLUTE LYMPHOCYT	TE COUNT	2.81		1.0 - 3.0	thou/µL
METHOD : FLOW CYTOMETR'		2101		110 310	εποά, με
ABSOLUTE MONOCYTE	COUNT	0.31		0.2 - 1.0	thou/µL
METHOD : FLOW CYTOMETR'	Y WITH LIGHT SCATTERING				
ABSOLUTE EOSINOPHI	IL COUNT	0.32		0.02 - 0.50	thou/µL
METHOD : FLOW CYTOMETR'	Y WITH LIGHT SCATTERING				
NEUTROPHIL LYMPHOO	CYTE RATIO (NLR)	1.2			
MORPHOLOGY					
RBC		NORMOCYTIC N	NORMOCYTIC NORMOCHROMIC		
WBC		NORMAL MORPH	HOLOGY		
METHOD : MICROSCOPIC EX	XAMINATION				
PLATELETS		ADEQUATE			
ERYTHROCYTE SEDI BLOOD	MENTATION RATE (ESF	R),WHOLE			
E.S.R		06		< 20	mm at 1 hr
GLYCOSYLATED HEM BLOOD	IOGLOBIN(HBA1C), ED	TA WHOLE			
HBA1C  METHOD: HPLC		6.4	High	Non-diabetic Adult < 5.7 Pre-diabetes 5.7 - 6.4 Diabetes diagnosis: > or = 6.5 Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)	%
ESTIMATED AVERAGE METHOD : CALCULATED PAR	` '	137.0	High	< 116.0	mg/dL
GLUCOSE FASTING,F					
FBS (FASTING BLOOD		110	High	Normal 75 - 99 Pre-diabetics: 100 - 125 Diabetic: > or = 126	mg/dL
METHOD : ENZYMATIC REFE GLUCOSE, POST-PRA	RENCE METHOD WITH HEXOKINA ANDIAL, PLASMA	SE			
PPBS(POST PRANDIAL	,	93		70 - 139	mg/dL
	RENCE METHOD WITH HEXOKINA	SE			
LIPID PROFILE, SER		222	High	Desirable shelesteral level	ma/dl
CHOLESTEROL, TOTAL		222	піуп	Desirable cholesterol level < 200 Borderline high cholesterol 200 - 239 High cholesterol > / = 240	mg/dL



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METHOD: ENZYMATIC COLORIMETRIC ASSAY	139		Normali < 150	ma/dl
TRIGLYCERIDES	139		Normal: < 150 Borderline high: 150 - 199 High: 200 - 499 Very High: >/= 500	mg/dL
METHOD: ENZYMATIC COLORIMETRIC ASSAY			very riigii. 2/ = 300	
HDL CHOLESTEROL	38	Low	Low HDL Cholesterol <40	mg/dL
METHOD : ENZYMATIC COLODIMETRIC			High HDL Cholesterol >/= 60	)
METHOD : ENZYMATIC, COLORIMETRIC CHOLESTEROL LDL	156	Hiah	Adult levels:	mg/dL
	130		Optimal < 100 Near optimal/above optimal: 1 129 Borderline high: 130-159 High: 160-189 Very high: = 190	<b>5</b> ,
METHOD: ENZYMATIC COLORIMETRIC ASSAY				
NON HDL CHOLESTEROL	184	High	Desirable : < 130 Above Desirable : 130 -159 Borderline High : 160 - 189 High : 190 - 219 Very high : > / = 220	mg/dL
VERY LOW DENSITY LIPOPROTEIN	27.8		< OR = 30.0	mg/dL
CHOL/HDL RATIO	5.8	High	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	4.1	High	0.5 - 3.0 Desirable/Low Risk     3.1 - 6.0 Borderline/Moderate Risk     >6.0 High Risk	
LIVER FUNCTION PROFILE, SERUM			-	
BILIRUBIN, TOTAL  METHOD: COLORIMETRIC DIAZO	0.36		Upto 1.2	mg/dL
BILIRUBIN, DIRECT	0.20		< 0.30	mg/dL
BILIRUBIN, INDIRECT	0.16		0.1 - 1.0	mg/dL
TOTAL PROTEIN  METHOD: COLORIMETRIC	6.8		6.0 - 8.0	g/dL
ALBUMIN  METHOD: COLORIMETRIC	4.3		3.97 - 4.94	g/dL
GLOBULIN	2.5		2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO	1.7		1.0 - 2.1	RATIO



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ASPARTATE AMINOTRANSFERASE (AST/SGOT)	17		< OR = 35	U/L
METHOD: UV ABSORBANCE				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	29		< OR = 35	U/L
METHOD: UV ABSORBANCE				
ALKALINE PHOSPHATASE	103		35 - 104	U/L
METHOD : COLORIMETRIC			0 40	
GAMMA GLUTAMYL TRANSFERASE (GGT)	41	High	0 - 40	U/L
METHOD : ENZYMATIC, COLORIMETRIC	165		125 220	11/1
LACTATE DEHYDROGENASE  METHOD: UV ABSORBANCE	105		125 - 220	U/L
BLOOD UREA NITROGEN (BUN), SERUM				
BLOOD UREA NITROGEN	10		6 - 20	mg/dL
METHOD : ENZYMATIC ASSAY	10		0 20	nig/uL
CREATININE, SERUM				
CREATININE	0.79		0.5 - 0.9	mg/dL
METHOD : COLORIMETRIC	0.75		0.5 0.5	mg/ aL
BUN/CREAT RATIO				
BUN/CREAT RATIO	12.66		8.0 - 15.0	
URIC ACID, SERUM				
URIC ACID	6.8	High	2.4 - 5.7	mg/dL
METHOD : ENZYMATIC COLORIMETRIC ASSAY				9,
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN	6.8		6.0 - 8.0	g/dL
METHOD : COLORIMETRIC				5.
ALBUMIN, SERUM				
ALBUMIN	4.3		3.97 - 4.94	g/dL
METHOD: COLORIMETRIC				
GLOBULIN				
GLOBULIN	2.5		2.0 - 3.5	g/dL
ELECTROLYTES (NA/K/CL), SERUM				
SODIUM, SERUM	142		136 - 145	mmol/L
POTASSIUM, SERUM	4.73		3.5 - 5.1	mmol/L
CHLORIDE, SERUM	104		98 - 107	mmol/L
PHYSICAL EXAMINATION, URINE				-
COLOR	PALE YELLOW			
APPEARANCE	CLEAR			



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CHEMICAL EXAMINATION, URINE			
PH	6.0	5.00 - 7.50	
SPECIFIC GRAVITY	1.015	1.010 - 1.030	
PROTEIN	NOT DETECTED	NOT DETECTED	
GLUCOSE	NOT DETECTED	NOT DETECTED	
KETONES	NOT DETECTED	NOT DETECTED	
BLOOD	NOT DETECTED	NOT DETECTED	
BILIRUBIN	NOT DETECTED	NOT DETECTED	
UROBILINOGEN	NORMAL	NORMAL	
NITRITE	NOT DETECTED	NOT DETECTED	
LEUKOCYTE ESTERASE	NOT DETECTED	NOT DETECTED	
MICROSCOPIC EXAMINATION, URINE			
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
PUS CELL (WBC'S)	1-2	0-5	/HPF
EPITHELIAL CELLS	0-1	0-5	/HPF
CASTS	NOT DETECTED		
CRYSTALS	NOT DETECTED		
BACTERIA	NOT DETECTED	NOT DETECTED	
YEAST	NOT DETECTED	NOT DETECTED	
THYROID PANEL, SERUM			
ТЗ	117.0	Non-Pregnant Women 80.0 - 200.0 Pregnant Women 1st Trimester:105.0 - 230.0 2nd Trimester:129.0 - 262.0 3rd Trimester:135.0 - 262.0	ng/dL
METHOD : ELECTROCHEMILUMINESCENCE			
T4	7.83	Non-Pregnant Women 5.10 - 14.10 Pregnant Women 1st Trimester: 7.33 - 14.80 2nd Trimester: 7.93 - 16.10 3rd Trimester: 6.95 - 15.70	μg/dL
METHOD: ELECTROCHEMILUMINESCENCE			
TSH (ULTRASENSITIVE)	1.830	Non Pregnant Women 0.27 - 4.20 Pregnant Women 1st Trimester: 0.33 - 4.59 2nd Trimester: 0.35 - 4.10 3rd Trimester: 0.21 - 3.15	μIU/mL



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METHOD: ELECTROCHEMILUMINESCENCE

**PAPANICOLAOU SMEAR** 

TEST METHOD CONVENTIONAL GYNEC CYTOLOGY

METHOD: MICROSCOPIC EXAMINATION

SPECIMEN TYPE P 297/23

TWO UNSTAINED CERVICAL SMEARS RECEIVED

METHOD: MICROSCOPIC EXAMINATION

REPORTING SYSTEM 2014 BETHESDA SYSTEM FOR REPORTING CERVICAL CYTOLOGY

SPECIMEN ADEQUACY SATISFACTORY

METHOD: PAP STAIN & MICROSCOPIC EXAMINATION

MICROSCOPY THE SMEARS SHOW MANY PARABASAL CELLS, BASAL CELLS, FEW

SUPERFICIAL SQUAMOUS CELLS, FEW INTERMEDIATE SQUAMOUS CELLS, OCCASIONAL SQUAMOUS METAPLASTIC CELLS, IN THE BACKGROUND OF MODERATE POLYMORPHS &NUMEROUS RBC"S.

METHOD: PAP STAIN

INTERPRETATION / RESULT NEGATIVE FOR INTRAEPITHELIAL LESION OR MALIGNANCY

 ${\tt METHOD: PAP\ STAIN\ \&\ MICROSCOPIC\ EXAMINATION}$ 

ATROPHY

METHOD: PAP STAIN & MICROSCOPIC EXAMINATION

ENDOMETRIAL CELLS (IN A WOMAN >/= 45 YRS) ABSENT

METHOD: PAP STAIN & MICROSCOPIC EXAMINATION

#### Comments

PLEASE NOTE PAPANICOLAU SMEAR STUDY IS A SCREENING PROCEDURE FOR CERVICAL CANCER WITH INHERENT FALSE NEGATIVE RESULTS HENCE SHOULD BE INTERPRETED WITH CAUTION. NO CYTOLOGICAL EVIDENCE OF HPV INFECTION IN THE SMEARS STUDIED. SMEARS WILL BE PRESERVED FOR 5 YEARS ONLY.

#### PHYSICAL EXAMINATION, STOOL

COLOUR SAMPLE NOT RECEIVED

METHOD : VISUAL

# ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE A

 ${\tt METHOD: GEL\ COLUMN\ AGGLUTINATION\ METHOD.}$ 

RH TYPE POSITIVE

METHOD: GEL COLUMN AGGLUTINATION METHOD.

**XRAY-CHEST** 



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IMPRESSION AORTIC KNUCKLE CALCIFICATION WITH UNFOLDING OF AORTA (AGE RELATED )

MILD HILAR PROMINENCE NOTED ON RIGHT SIDE.

TMT OR ECHO

TMT OR ECHO 2D ECHO :- CONCENTRIC LVH.

**ECG** 

ECG WITHIN NORMAL LIMITS

**MAMOGRAPHY (BOTH BREASTS)** 

MAMOGRAPHY BOTH BREASTS SONO BREAST :- NORMAL

**MEDICAL HISTORY** 

RELEVANT PRESENT HISTORY HYPERTENSION SINCE 4 YEARS.

C/O JOINT PAINS ON & OFF ON PHYSIOTHERAPY

RELEVANT PAST HISTORY NOT SIGNIFICANT

RELEVANT PERSONAL HISTORY MARRIED / 2 CHILD / MIXED DIET / NO ALLERGIES / NO SMOKING / NO

ALCOHOL.

MENSTRUAL HISTORY (FOR FEMALES) MENOPAUSAL

OBSTETRIC HISTORY (FOR FEMALES) 1 LSCS 1 FTND,A0,L2 LCB (FOR FEMALES) 30 YEARS BACK.

RELEVANT FAMILY HISTORY FATHER: - DIABETES

HISTORY OF MEDICATIONS TAB :- TELMA

**ANTHROPOMETRIC DATA & BMI** 

HEIGHT IN METERS1.51mtsWEIGHT IN KGS.76KgsBMI33BMI & Weight Status as follows: kg/sqr

BMI 33 BMI & Weight Status as follows: kg/sqmts Below 18.5: Underweight

18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese

**GENERAL EXAMINATION** 

MENTAL / EMOTIONAL STATE NORMAL
PHYSICAL ATTITUDE NORMAL
GENERAL APPEARANCE / NUTRITIONAL STATUS OBESE
BUILT / SKELETAL FRAMEWORK AVERAGE
FACIAL APPEARANCE NORMAL
SKIN NORMAL
UPPER LIMB NORMAL



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LOWER LIMB **NORMAL NECK NORMAL** 

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER

THYROID GLAND **NOT ENLARGED** 

CAROTID PULSATION **NORMAL BREAST (FOR FEMALES) NORMAL TEMPERATURE NORMAL** 

**PULSE** 78/MIN.REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID

**BRUIT** 

**NORMAL** RESPIRATORY RATE

**CARDIOVASCULAR SYSTEM** 

BP 110/70 MM HG mm/Hg

(SUPINE) **NORMAL** 

**PERICARDIUM** 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 HFRNIA ABSENT** 

**CENTRAL NERVOUS SYSTEM** 

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









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NEAR VISION RIGHT EYE WITHOUT GLASSES REDUCED VISUAL ACUITY N/24 NEAR VISION LEFT EYE WITHOUT GLASSES REDUCED VISUAL ACUITY N/24

NEAR VISION RIGHT EYE WITH GLASSES WITHIN NORMAL LIMIT NEAR VISION LEFT EYE WITH GLASSES WITHIN NORMAL LIMIT

COLOUR VISION NORMAL

**SUMMARY** 

RELEVANT HISTORY **NOT SIGNIFICANT** RELEVANT GP EXAMINATION FINDINGS OBESE:-BMI 33

OPHTHALMOLOGY CONSULT FOR REDUCED VISUAL ACUITY REMARKS / RECOMMENDATIONS

WEIGHT LOSS -LOW FAT, LOW CALORIE, LOW CARBOHYDRATE, HIGH

FIBRE DIET.

REGULAR EXERCISE.REGULAR WALK FOR 30-40 MIN DAILY.

REPEAT LIPID PROFILE, BLOOD SUGAR AFTER 3 MONTHS OF DIET AND

EXERCISE.

AVOID HIGH QUALITY PROTEIN DIET. DAILY EXPOSURE TO SUNLIGHT FOR 20 MIN.

ADD LOW FAT DAIRY PRODUCTS TO DAILY DIET.

VITAMIN D SUPPLEMENTS PHYSICIAN CONSULT FOR THE SAME.

TO DO 25 )OH)VITAMIN D.

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.





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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.

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.

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)

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.

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.

- 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.

- 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

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 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.







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MADHF010663181





**CLIENT CODE:** C000138394 CLIENT'S NAME AND ADDRESS : ACROFEMI HEALTHCARE LTD ( MEDIWHEEL ) F-703, F-703, LADO SARAI, MEHRAULI SOUTH WEST DELHI NEW DELHI 110030 **DELHI INDIA** 8800465156

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

Tel: 9111591115, Fax: CIN - U74899PB1995PLC045956

Email: customercare.thane@srl.in

**PATIENT NAME: MADHAVI S SAWARDEKAR** PATIENT ID:

ACCESSION NO: 0181WB001082 AGE: 59 Years SEX: Female

DRAWN: RECEIVED: 25/02/2023 09:22 REPORTED: 01/03/2023 16:39

REFERRING DOCTOR: SFLF CLIENT PATIENT ID:

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

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-

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

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

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:-I ontake, Orc Multiple Sclerosis

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.

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.

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.



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

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

**ULTRASOUND ABDOMEN ULTRASOUND ABDOMEN** GRADE I FATTY LIVER

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

## **CONDITIONS OF LABORATORY TESTING & REPORTING**

- 1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
- 2. All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
- 3. Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.
- 4. A requested test might not be performed if:
  - i. Specimen received is insufficient or inappropriate
  - ii. Specimen quality is unsatisfactory
  - iii. Incorrect specimen type
  - iv. Discrepancy between identification on specimen container label and test requisition form

- 5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
- 6. Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.
- 7. Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.
- 8. Test results cannot be used for Medico legal purposes.
- 9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

## **SRL Limited**

Fortis Hospital, Sector 62, Phase VIII, Mohali 160062



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