DIAGNOSTIC REPORT

Patient Ref. No. 7000000913153

SRL Diagnostics

CLIENT CODE : C000138355

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

SRL Ltd
34/2, NEW PALASIA, NEAR OM SHANTI BHAWAN CIRCLE,BEHIND INDUSTRY HOUSE
INDORE, 452001
MADHYA PRADESH, INDIA
Tel : 9111591115,
CIN - U74899PB1995PLC045956
Email : customercare.indore@srl.in

PATIENT NAME : SANGITA SILAWAT PATIENT ID : **SANGF0408697**

ACCESSION NO : **0007VJ001274** AGE : 53 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 08/10/2022 10:55:05 REPORTED : 10/10/2022 12:30:00

REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL) CLIENT PATIENT ID : BOB14372

Test Report Status **Final**	Results		Biological Reference Interval	Units
MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE				
BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN METHOD : SPECTROPHOTOMETRIC	14.7		12.0 - 15.0	g/dL
RED BLOOD CELL COUNT METHOD : ELECTRICAL IMPEDANCE	**5.35**	**High**	3.8 - 4.8	mil/µL
WHITE BLOOD CELL COUNT	8.00		4.0 - 10.0	thou/µL
PLATELET COUNT METHOD : ELECTRICAL IMPEDANCE	178		150 - 410	thou/µL
RBC AND PLATELET INDICES				
HEMATOCRIT METHOD : CALCULATED PARAMETER	43.8		36 - 46	%
MEAN CORPUSCULAR VOL METHOD : CALCULATED PARAMETER	**82.0**	**Low**	83 - 101	fL
MEAN CORPUSCULAR HGB. METHOD : CALCULATED PARAMETER	27.4		27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION METHOD : CALCULATED PARAMETER	33.5		31.5 - 34.5	g/dL
MENTZER INDEX	15.3			
RED CELL DISTRIBUTION WIDTH METHOD : CALCULATED PARAMETER	**17.7**	**High**	11.6 - 14.0	%
MEAN PLATELET VOLUME METHOD : CALCULATED PARAMETER	9.9		6.8 - 10.9	fL
WBC DIFFERENTIAL COUNT - NLR				
SEGMENTED NEUTROPHILS METHOD : IMPEDENCE / MICROSCOPY	65		40 - 80	%
ABSOLUTE NEUTROPHIL COUNT METHOD : CALCULATED PARAMETER	5.2		2.0 - 7.0	thou/µL
LYMPHOCYTES METHOD : IMPEDENCE / MICROSCOPY	24		20 - 40	%
ABSOLUTE LYMPHOCYTE COUNT METHOD : CALCULATED PARAMETER	1.92		1.0 - 3.0	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR) METHOD : CALCULATED PARAMETER	2.7			

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EOSINOPHILS	03		1 - 6	%
METHOD : IMPEDENCE / MICROSCOPY				
ABSOLUTE EOSINOPHIL COUNT	0.24		0.02 - 0.50	thou/µL
METHOD : CALCULATED PARAMETER				
MONOCYTES	08		2 - 10	%
METHOD : IMPEDENCE / MICROSCOPY				
ABSOLUTE MONOCYTE COUNT	0.64		0.2 - 1.0	thou/µL
METHOD : CALCULATED PARAMETER				
DIFFERENTIAL COUNT PERFORMED ON:	EDTA SMEAR			

Comments

Please note that :
The Automatic analyzer used to estimate Complete Blood Counts (Blood cell Indices & counts) is "ABX PENTRA XL 80" (HORIBA); the values are correlated manually with microscopic picture.

ERYTHRO SEDIMENTATION RATE, BLOOD

SEDIMENTATION RATE (ESR)	19		0 - 20	mm at 1 hr
METHOD : WESTERGREN METHOD				

GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD

GLYCOSYLATED HEMOGLOBIN (HBA1C)	**8.0**	**High**	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%
METHOD : HPLC				
MEAN PLASMA GLUCOSE	**182.9**	**High**	< 116.0	mg/dL
METHOD : CALCULATED PARAMETER				

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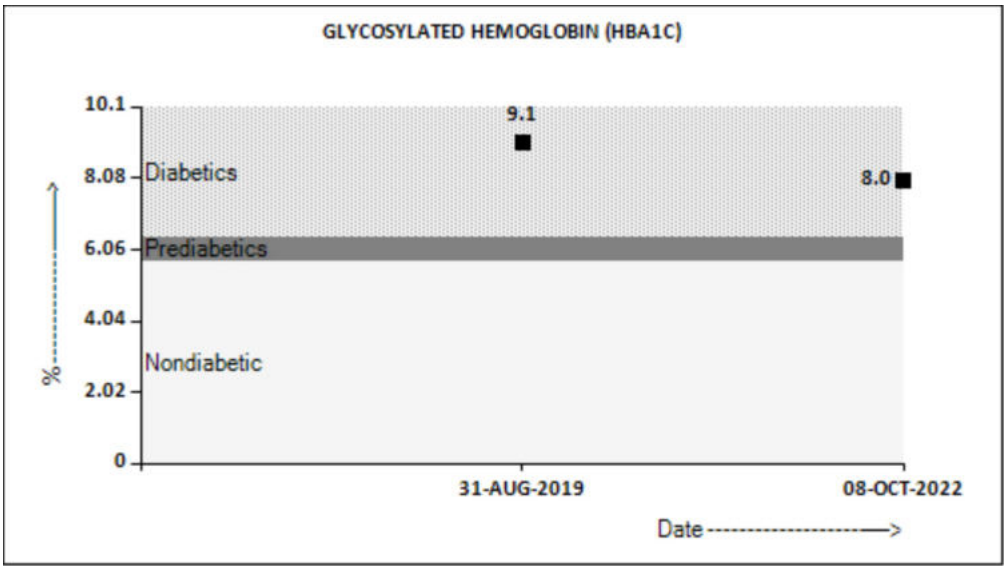

GLUCOSE, FASTING, PLASMA

GLUCOSE, FASTING, PLASMA	**155**	**High**	74 - 99	mg/dL

METHOD : HEXOKINASE

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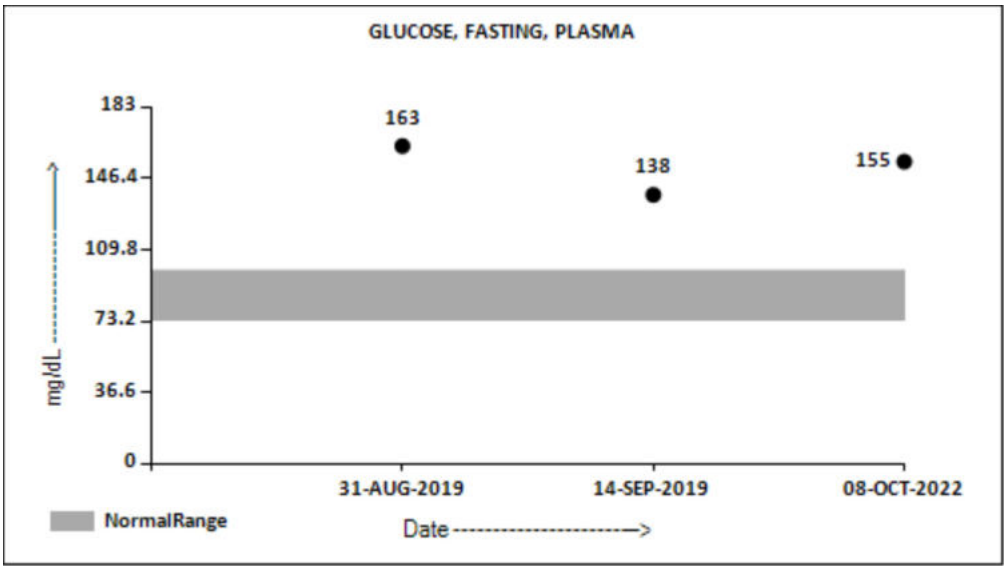

GLUCOSE, POST-PRANDIAL, PLASMA

GLUCOSE, POST-PRANDIAL, PLASMA	**160**	**High**	Normal: < 140, Impaired Glucose Tolerance:140-199 Diabetic > or = 200	mg/dL

METHOD : HEXOKINASE

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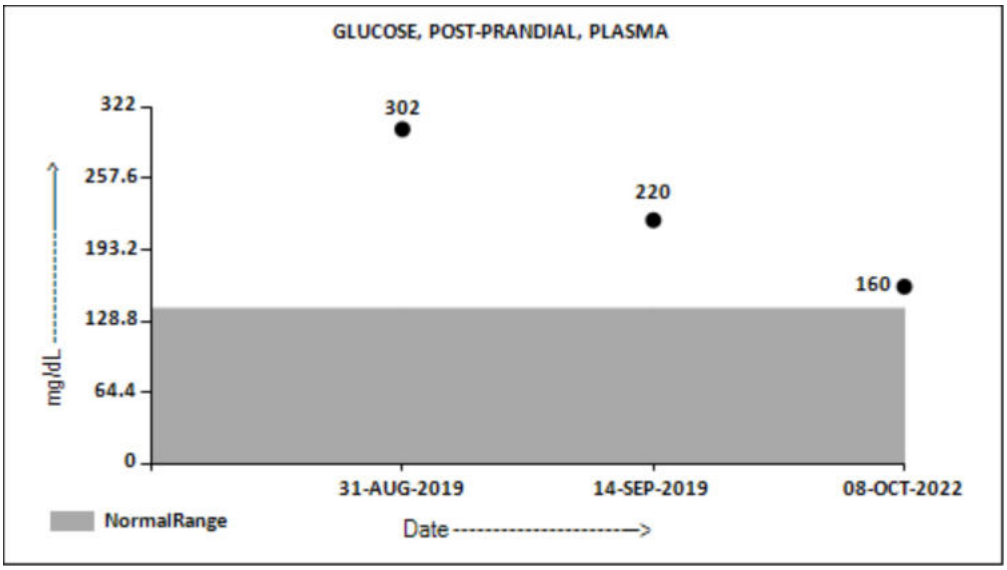

CORONARY RISK PROFILE, SERUM

CHOLESTEROL	**203**	**High**	Desirable: <200 BorderlineHigh : 200-239 High : > or = 240	mg/dL
METHOD : OXIDASE, ESTERASE, PEROXIDASE				
TRIGLYCERIDES	**268**	**High**	Desirable: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High : > or = 500	mg/dL
METHOD : ENZYMATIC ASSAY				
HDL CHOLESTEROL	**32**	**Low**	< 40 Low > or = 60 High	mg/dL
CHOLESTEROL LDL	**117**	**High**	Adult levels: Optimal < 100 Near optimal/above optimal: 100-129 Borderline high : 130-159 High : 160-189 Very high : = 190	mg/dL

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NON HDL CHOLESTEROL	**171**	**High**	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
CHOL/HDL RATIO	6.3			
LDL/HDL RATIO	**3.7**	**High**	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	
VERY LOW DENSITY LIPOPROTEIN	53.6			mg/dL
LIVER FUNCTION PROFILE, SERUM				
BILIRUBIN, TOTAL	0.31		0.0 - 1.2	mg/dL
METHOD : JENDRASSIK AND GROFF				
BILIRUBIN, DIRECT	0.13		0.0 - 0.2	mg/dL
METHOD : DIAZOTIZATION				
BILIRUBIN, INDIRECT	0.18		0.00 - 1.00	mg/dL
TOTAL PROTEIN	7.8		6.4 - 8.3	g/dL
METHOD : BIURET				
ALBUMIN	4.6		3.50 - 5.20	g/dL
METHOD : BROMOCRESOL PURPLE				
GLOBULIN	3.2		2.0 - 4.1	g/dL
ALBUMIN/GLOBULIN RATIO	1.4		1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	20		UPTO 32	U/L
METHOD : UV WITH P5P				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	18		UPTO 34	U/L
METHOD : UV WITH P5P				
ALKALINE PHOSPHATASE	76		35 - 104	U/L
METHOD : PNPP				
GAMMA GLUTAMYL TRANSFERASE (GGT)	31		5 - 36	U/L
METHOD : G-GLUTAMYL-CARBOXY-NITROANILIDE				
LACTATE DEHYDROGENASE	177		135 - 214	U/L
METHOD : ENZYMATIC LACTATE - PYRUVATE(IFCC)				
SERUM BLOOD UREA NITROGEN				
BLOOD UREA NITROGEN	6		6 - 20	mg/dL
METHOD : UREASE KINETIC				

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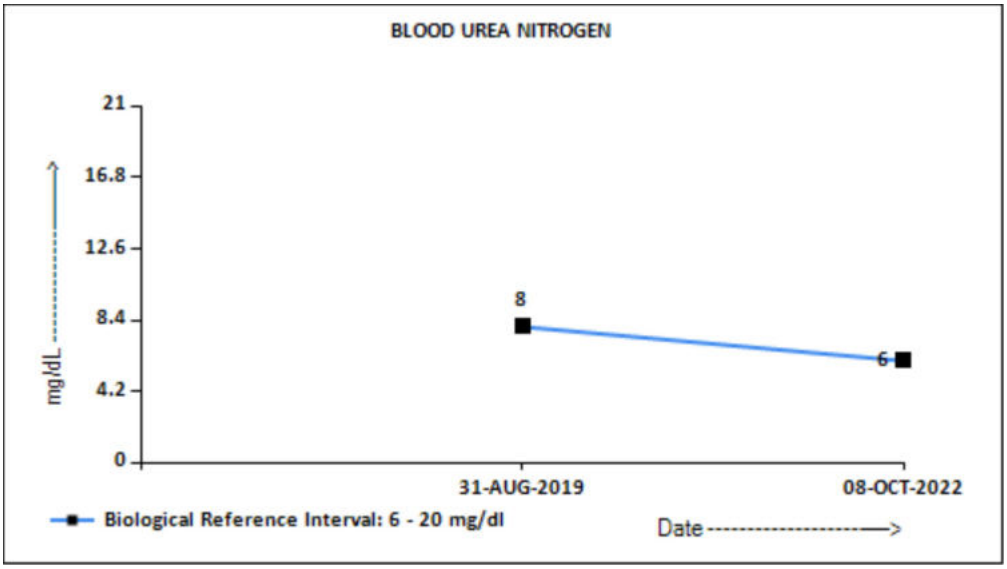

CREATININE, SERUM

CREATININE	0.78	0.50 - 0.90	mg/dL

METHOD : ALKALINE PICRATE-KINETIC

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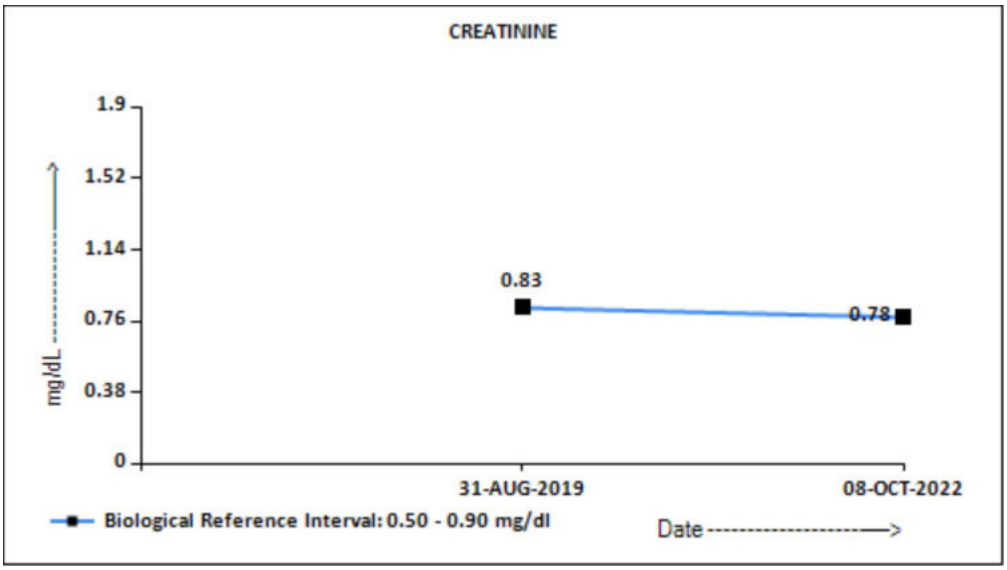

BUN/CREAT RATIO				
BUN/CREAT RATIO	7.69		5.0 - 15.0	
URIC ACID, SERUM				
URIC ACID	**6.2**	**High**	2.6 - 6.0	mg/dL
METHOD : URICASE/CATALASE UV				
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN	7.8		6.4 - 8.3	g/dL
METHOD : BIURET				
ALBUMIN, SERUM				
ALBUMIN	4.6		3.5 - 5.2	g/dL
METHOD : BROMOCRESOL PURPLE				
GLOBULIN				
GLOBULIN	3.2		2.0 - 4.1	g/dL
ELECTROLYTES (NA/K/CL), SERUM				
SODIUM	145.3		136.0 - 146.0	mmol/L
POTASSIUM	4.08		3.50 - 5.10	mmol/L
CHLORIDE	105.1		98.0 - 106.0	mmol/L

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PHYSICAL EXAMINATION, URINE			
COLOR	PALE YELLOW		
METHOD : MACROSCOPY			
APPEARANCE	CLEAR		
METHOD : VISUAL			
SPECIFIC GRAVITY	1.020	1.003 - 1.035	
METHOD : REFLECTANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINATION, URINE			
PH	5.5	4.7 - 7.5	
METHOD : PH INDICATOR AND REFLECTANCE			
PROTEIN	NOT DETECTED	NOT DETECTED	
METHOD : PROTEIN ERROR OF INDICATORS WITH REFLECTANCE			
GLUCOSE	NOT DETECTED	NOT DETECTED	
METHOD : GLUCOSE OXIDASE			
KETONES	NOT DETECTED	NOT DETECTED	
METHOD : ROTHERA'S WITH REFLECTANCE			
BLOOD	NOT DETECTED	NOT DETECTED	
METHOD : PEROXIDASE METHOD WITH REFLECTANCE			
BILIRUBIN	NOT DETECTED	NOT DETECTED	
METHOD : DIAZOTIZED WITH REFLECTANCE			
UROBILINOGEN	NORMAL	NORMAL	
METHOD : EHRLICH REACTION REFLECTANCE			
NITRITE	NOT DETECTED	NOT DETECTED	
METHOD : DIAZOTIZED WITH REFLECTANCE			
LEUKOCYTE ESTERASE	NOT DETECTED	NOT DETECTED	
MICROSCOPIC EXAMINATION, URINE			
PUS CELL (WBC'S)	2-3	0-5	/HPF
METHOD : ESTERASES METHOD WITH REFLECTANCE			
EPITHELIAL CELLS	3-5	0-5	/HPF
METHOD : MICROSCOPIC EXAMINATION			
ERYTHROCYTES (RBC'S)	NOT DETECTED	NOT DETECTED	/HPF
CASTS	NOT DETECTED		
METHOD : MICROSCOPIC EXAMINATION			
CRYSTALS	NOT DETECTED		
METHOD : MICROSCOPIC EXAMINATION			

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BACTERIA	NOT DETECTED	NOT DETECTED	
METHOD : MICROSCOPIC EXAMINATION			
YEAST	NOT DETECTED	NOT DETECTED	
REMARKS	Please note that all the urinary findings are confirmed manually as well.		
THYROID PANEL, SERUM			
T3	118.7	80.00 - 200.00	ng/dL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
T4	8.46	5.10 - 14.10	µg/dL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
TSH 3RD GENERATION	1.820	0.270 - 4.200	µIU/mL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
PAPANICOLAOU SMEAR			
TEST METHOD	CONVENTIONAL GYNEC CYTOLOGY		
SPECIMEN TYPE	TWO UNSTAINED CERVICAL SMEARS RECEIVED		
REPORTING SYSTEM	2014 BETHESDA SYSTEM FOR REPORTING CERVICAL CYTOLOGY		
SPECIMEN ADEQUACY	SATISFACTORY FOR EVALUATION WITH PRESENCE OF ENDOCERVICAL TRANSFORMATION ZONE COMPONENT		
MICROSCOPY	SMEARS SHOW SCATTERED AND SHEETS OF INTERMEDIATE AND PARABASAL CELLS ALONGWITH FEW SQUAMOUS METAPLASTIC CELLS AND FEW INFLAMMATORY CELLS.		
METHOD : MICROSCOPIC EXAMINATION			
INTERPRETATION / RESULT	NEGATIVE FOR INTRAEPITHELIAL LESION OR MALIGNANCY		
ENDOMETRIAL CELLS (IN A WOMAN >/= 45 YRS)	ABSENT		
METHOD : MICROSCOPIC EXAMINATION			

Comments

Advised clinical correlation and repeat after proper antibiotic treatment/local treatment.
Advised cervical biopsy to confirm diagnosis.

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD			
ABO GROUP	TYPE O		
METHOD : TUBE AGGLUTINATION			
RH TYPE	POSITIVE		
METHOD : TUBE AGGLUTINATION			
XRAY-CHEST			
»»	BOTH THE LUNG FIELDS ARE CLEAR		

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»»	BOTH THE COSTOPHRENIC AND CARIOPHRENIC ANGELS ARE CLEAR		
»»	BOTH THE HILA ARE NORMAL		
»»	CARDIAC AND AORTIC SHADOWS APPEAR NORMAL		
»»	BOTH THE DOMES OF THE DIAPHRAM ARE NORMAL		
»»	VISUALIZED BONY THORAX IS NORMAL		
IMPRESSION	NO ABNORMALITY DETECTED		
TMT OR ECHO			
TMT OR ECHO	NEGATIVE		
ECG			
ECG	SINUS TACHYCARDIA, LEFT ATRIAL ABNORMALITY		
MAMOGRAPHY (BOTH BREASTS)			
MAMOGRAPHY BOTH BREASTS	IMPRESSION : - Normal sonographic appearance of bilateral breasts.		
MEDICAL HISTORY			
RELEVANT PRESENT HISTORY	HTN/DM - 2-3 YEARS		
RELEVANT PAST HISTORY	LSCS 1993,1994		
RELEVANT PERSONAL HISTORY	NOT SIGNIFICANT		
RELEVANT FAMILY HISTORY	HTN - PARENTS		
OCCUPATIONAL HISTORY	NOT SIGNIFICANT		
HISTORY OF MEDICATIONS	NOT SIGNIFICANT		
ANTHROPOMETRIC DATA & BMI			
HEIGHT IN METERS	1.55		mts
WEIGHT IN KGS.	61		Kgs
BMI	25	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	OVERWEIGHT		
BUILT / SKELETAL FRAMEWORK	AVERAGE		
FACIAL APPEARANCE	NORMAL		

CLIENT CODE : C000138355

CLIENT'S NAME AND ADDRESS :
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F-703, LADO SARAI, MEHRAULI
SOUTH WEST DELHI
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DELHI INDIA
8800465156

SRL Ltd
34/2, NEW PALASIA, NEAR OM SHANTI BHAWAN CIRCLE,BEHIND INDUSTRY HOUSE
INDORE, 452001
MADHYA PRADESH, INDIA
Tel : 9111591115,
CIN - U74899PB1995PLC045956
Email : customercare.indore@srl.in

PATIENT NAME : SANGITA SILAWAT PATIENT ID : **SANGF0408697**

ACCESSION NO : **0007VJ001274** AGE : 53 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 08/10/2022 10:55:05 REPORTED : 10/10/2022 12:30:00

REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL) CLIENT PATIENT ID : BOB14372

Test Report Status **Final**	Results	Biological Reference Interval	Units
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	AFEBRILE		
PULSE	94/MIN REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT HEARD		
RESPIRATORY RATE	NORMAL		
CARDIOVASCULAR SYSTEM			
BP	130/84		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		

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Test Report Status **Final**	Results	Biological Reference Interval	Units
CEREBELLAR FUNCTIONS	NORMAL		
SENSORY SYSTEM	NORMAL		
MOTOR SYSTEM	NORMAL		
REFLEXES	NORMAL		
MUSCULOSKELETAL SYSTEM			
SPINE	NORMAL		
JOINTS	NORMAL		
BASIC EYE EXAMINATION			
CONJUNCTIVA	NORMAL		
EYELIDS	NORMAL		
EYE MOVEMENTS	NORMAL		
CORNEA	NORMAL		
DISTANT VISION RIGHT EYE WITHOUT GLASSES	6/18 VISUAL ACUITY FOR CORRECTION		
DISTANT VISION LEFT EYE WITHOUT GLASSES	6/6 WITHIN NORMAL LIMIT		
DISTANT VISION RIGHT EYE WITH GLASSES	6/6 WITHIN NORMAL LIMIT		
DISTANT VISION LEFT EYE WITH GLASSES	6/6 WITHIN NORMAL LIMIT		
NEAR VISION RIGHT EYE WITHOUT GLASSES	N/18 VISUAL ACUITY FOR CORRECTION		
NEAR VISION LEFT EYE WITHOUT GLASSES	N/10 VISUAL ACUITY FOR CORRECTION		
NEAR VISION RIGHT EYE WITH GLASSES	N/6 WITHIN NORMAL LIMIT		
NEAR VISION LEFT EYE WITH GLASSES	N/6 WITHIN NORMAL LIMIT		
COLOUR VISION	NORMAL		
BASIC ENT EXAMINATION			
EXTERNAL EAR CANAL	HEAVY WITHIN NORMAL LIMIT		
TYMPANIC MEMBRANE	NORMAL		
NOSE	NO ABNORMALITY DETECTED		
SINUSES	CLEAR		
THROAT	NO ABNORMALITY DETECTED		
TONSILS	NOT ENLARGED		
SUMMARY			
RELEVANT HISTORY	NOT SIGNIFICANT		
RELEVANT GP EXAMINATION FINDINGS	OVERWEIGHT		
REMARKS / RECOMMENDATIONS	.		

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DIAGNOSTIC REPORT

Patient Ref. No. 7000000913153

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

Comments

CLINICAL FINDINGS :-
OVER WEIGHT STATUS.
DERANGED GLUCOSE METABOLISM
DYSLIPIDEMIA.

FITNESS STATUS :-

FITNESS STATUS : FIT (WITH MEDICAL ADVICE) (AS PER REQUESTED PANEL OF TESTS) .

ADVICE : WEIGHT REDUCTION, LOW FAT& CARBOHYDRATE DIET AND REGULAR PHYSICAL EXERCISE FOR OVERWEIGHT STATUS .

NEED PHYSICIAN CONSULTATION FOR PROPER EVALUATION AND MANAGEMENT

FITNESS STATUS

FITNESS STATUS	FIT (WITH MEDICAL ADVICE) (AS PER REQUESTED PANEL OF TESTS)

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Test Report Status **Final**	Results	Units

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

DEONE

Comments

USG-
IMPRESSION- MILD SPLEENOMEGALY

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 - NLR-
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.
ERYTHRO SEDIMENTATION RATE, BLOOD-
Erythrocyte sedimentation rate (ESR) is a non - specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants. The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week post partum. ESR is influenced by age, sex, menstrual cycle and drugs (eg. corticosteroids, contraceptives). It is especially low (0 -1mm) in polycythaemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis or sickle cells.

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"
GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD-
Glycosylated hemoglobin (GHb) has been firmly established as an index of long-term blood glucose concentrations and as a measure of the risk for the development of complications in patients with diabetes mellitus. Formation of GHb is essentially irreversible, and the concentration in the blood depends on both the life span of the red blood cell (average 120 days) and the blood glucose concentration. Because the rate of formation of GHb is directly proportional to the concentration of glucose in the blood, the GHb concentration represents the integrated values for glucose over the preceding 6-8 weeks.
Any condition that alters the life span of the red blood cells has the potential to alter the GHb level. Samples from patients with hemolytic anemias will exhibit decreased glycated hemoglobin values due to the shortened life span of the red cells. This effect will depend upon the severity of the anemia. Samples from patients with polycythemia or post-splenectomy may exhibit increased glycated hemoglobin values due to a somewhat longer life span of the red cells.
Glycosylated hemoglobins results from patients with HbSS, HbCC, and HbSC and HbD must be interpreted with caution, given the pathological processes, including anemia, increased red cell turnover, transfusion requirements, that adversely impact HbA1c as a marker of long-term glycemic control. In these conditions, alternative forms of testing such as glycated serum protein (fructosamine) should be considered.
"Targets should be individualized; More or less stringent glycemic goals may be appropriate for individual patients. Goals should be individualized based on duration of diabetes, age/life expectancy, comorbid conditions, known CVD or advanced microvascular complications, hypoglycemia unawareness, and individual patient considerations.''

References
1. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, edited by Carl A Burtis, Edward R.Ashwood, David E Bruns, 4th Edition, Elsevier publication, 2006, 879-884.
2. Forsham PH. Diabetes Mellitus:A rational plan for management. Postgrad Med 1982, 71,139-154.

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ACCESSION NO : **0007VJ001274** AGE : 53 Years SEX : Female ABHA NO :

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REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL) CLIENT PATIENT ID : BOB14372

Test Report Status **Final**	Results	Units

3. Mayer TK, Freedman ZR: Protein glycosylation in Diabetes Mellitus: A review of laboratory measurements and their clinical utility. Clin Chim Acta 1983, 127, 147-184.
GLUCOSE, FASTING, PLASMA-
ADA 2021 guidelines for adults, after 8 hrs fasting is as follows:
Pre-diabetics: 100 - 125 mg/dL
Diabetic: > or = 126 mg/dL
GLUCOSE, POST-PRANDIAL, PLASMA-ADA Guidelines for 2hr post prandial glucose levels is only after ingestion of 75grams of glucose in 300 ml water,over a period of 5 minutes.
LIVER FUNCTION PROFILE, SERUM-
LIVER FUNCTION PROFILE
Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.
AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.
ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget's disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilson's 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.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's disease.Lower-than-normal levels may be due to: Agammaglobulinemia,Bleeding (hemorrhage),Burns,Glomerulonephritis,Liver disease, Malabsorption,Malnutrition,Nephrotic syndrome,Protein-losing enteropathy etc.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
SERUM BLOOD UREA NITROGEN-
Causes of Increased levels
Pre renal
• High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal
• Renal Failure
Post Renal
• Malignancy, Nephrolithiasis, Prostatism

Causes of decreased levels
• 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
• Muscular dystrophy
URIC ACID, SERUM-
Causes of Increased levels
Dietary
• High Protein Intake.
• Prolonged Fasting,
• Rapid weight loss.

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Test Report Status **Final**	Results	Units

Gout
Lesch nyhan syndrome.
Type 2 DM.
Metabolic syndrome.

Causes of decreased levels
• Low Zinc Intake
• OCP's
• Multiple Sclerosis

Nutritional tips to manage increased Uric acid levels
• Drink plenty of fluids
• Limit animal proteins
• High Fibre foods
• Vit C Intake
• Antioxidant rich foods

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's 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.

ELECTROLYTES (NA/K/CL), SERUM-
Sodium levels are Increased in dehydration, cushing's syndrome, aldosteronism & decreased in Addison's disease, hypopituitarism,liver disease. Hypokalemia (low K) is common in vomiting, diarrhea, alcoholism, folic acid deficiency and primary aldosteronism. Hyperkalemia may be seen in end-stage renal failure, hemolysis, trauma, Addison's disease, metabolic acidosis, acute starvation, dehydration, and with rapid K infusion.Chloride is increased in dehydration, renal tubular acidosis (hyperchloremia metabolic acidosis), acute renal failure, metabolic acidosis associated with prolonged diarrhea and loss of sodium bicarbonate, diabetes insipidus, adrenocortical hyperfuction, salicylate intoxication and with excessive infusion of isotonic saline or extremely high dietary intake of salt.Chloride is decreased in overhydration, chronic respiratory acidosis, salt-losing nephritis, metabolic alkalosis, congestive heart failure, Addisonian crisis, certain types of metabolic acidosis, persistent gastric secretion and prolonged vomiting,

MICROSCOPIC EXAMINATION, URINE-
Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders
Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever
Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.
Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.
Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.
Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.
Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.
pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food can affect the pH of urine.
Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus.
Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.
Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of hemolytic anemia

THYROID PANEL, SERUM-
Triiodothyronine T3 , is a thyroid hormone. It affects 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 (TSH), which is released from the pituitary gland. Elevated concentrations of T3, and T4 in the blood inhibit the production of TSH.
Thyroxine T4, Thyroxine's principal function is to stimulate the metabolism of all cells and tissues in the body. Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called 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.
In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.
Below mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3

DIAGNOSTIC REPORT

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Test Report Status **Final**	**Results**	**Units**

Levels in Pregnancy	TOTAL T4 (µg/dL)	TSH3G (µIU/mL)	TOTAL T3 (ng/dL)
First Trimester	6.6 - 12.4	0.1 - 2.5	81 - 190
2nd Trimester	6.6 - 15.5	0.2 - 3.0	100 - 260
3rd Trimester	6.6 - 15.5	0.3 - 3.0	100 - 260

Below mentioned are the guidelines for age related reference ranges for T3 and T4.

	T3 (ng/dL)	T4 (µg/dL)
New Born:	75 - 260	1-3 day: 8.2 - 19.9
.		1 Week: 6.0 - 15.9

NOTE: TSH concentrations in apparently normal euthyroid subjects are known to be highly skewed, with a strong tailed distribution towards higher TSH values. This is well documented in the pediatric population including the infant age group.
Kindly note: Method specific reference ranges are appearing on the report under biological reference range.

Reference:
1. Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.
2. Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
3. Behrman R.E. Kilegman R.M., Jenson H. B. Nelson Text Book of Pediatrics, 17th Edition
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.
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.

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FITNESS STATUS-
Conclusion on an individual's Fitness, which is commented upon mainly for Pre employment cases, is based on multi factorial findings and does not depend on any one single parameter. The final Fitness assigned to a candidate will depend on the Physician's findings and overall judgement on a case to case basis, details of the candidate's past and personal history; as well as the comprehensiveness of the diagnostic panel which has been requested for .These are then further correlated with details of the job under consideration to eventually fit the right man to the right job.
Basis the above, SRL classifies a candidate's Fitness Status into one of the following categories:
• Fit (As per requested panel of tests) – SRL Limited gives the individual a clean chit to join the organization, on the basis of the General Physical Examination and the specific test panel requested for.
• Fit (with medical advice) (As per requested panel of tests) - This indicates that although the candidate can be declared as FIT to join the job, minimal problems have been detected during the Pre- employment examination. Examples of conditions which could fall in this category could be cases of mild reversible medical abnormalities such as height weight disproportions, borderline raised Blood Pressure readings, mildly raised Blood sugar and Blood Lipid levels, Hematuria, etc. Most of these relate to sedentary lifestyles and come under the broad category of life style disorders. The idea is to caution an individual to bring about certain lifestyle changes as well as seek a Physician's consultation and counseling in order to bring back to normal the mildly deranged parameters. For all purposes the individual is FIT to join the job.
• Fitness on Hold (Temporary Unfit) (As per requested panel of tests) - Candidate's reports are kept on hold when either the diagnostic tests or the physical findings reveal the presence of a medical condition which warrants further tests, counseling and/or specialist opinion, on the basis of which a candidate can either be placed into Fit, Fit (With Medical Advice), or Unfit category. Conditions which may fall into this category could be high blood pressure, abnormal ECG, heart murmurs, abnormal vision, grossly elevated blood sugars, etc.
• Unfit (As per requested panel of tests) - An unfit report by SRL Limited clearly indicates that the individual is not suitable for the respective job profile e.g. total color blindness in color related jobs.

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

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DIAGNOSTIC REPORT

Patient Ref. No. 7000000913153

CLIENT CODE : C000138355

CLIENT'S NAME AND ADDRESS :
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Email : customercare.indore@srl.in

PATIENT NAME : SANGITA SILAWAT PATIENT ID : **SANGF0408697**

ACCESSION NO : **0007VJ001274** AGE : 53 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 08/10/2022 10:55:05 REPORTED : 10/10/2022 12:30:00

REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL) CLIENT PATIENT ID : BOB14372

Test Report Status **Final**	**Results**	**Units**

Dr.Arpita Pasari, MD
Consultant Pathologist

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