



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: RUCHA R BHOIR PATIENT ID: RUCHF020566181

ACCESSION NO: **0181WC001353** AGE: 56 Years SEX: Female

DRAWN: RECEIVED: 20/03/2023 08:28 REPORTED: 24/03/2023 14:48

REFERRING DOCTOR: SELF CLIENT PATIENT ID:

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

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)	14.6		12.0 - 15.0	g/dL
METHOD : SLS- HEMOGLOBIN DETECTION METHOD				
RED BLOOD CELL (RBC) COUNT	5.07	High	3.8 - 4.8	mil/µL
METHOD: HYDRODYNAMIC FOCUSING BY DC DETECTION				
WHITE BLOOD CELL (WBC) COUNT	7.41		4.0 - 10.0	thou/µL
METHOD: FLUORESCENCE FLOW CYTOMETRY				
PLATELET COUNT	426	High	150 - 410	thou/µL
METHOD: HYDRODYNAMIC FOCUSING BY DC DETECTION				
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV)	45.5		36.0 - 46.0	%
METHOD: CUMULATIVE PULSE HEIGHT DETECTION METHOD				
MEAN CORPUSCULAR VOLUME (MCV)	89.7		83.0 - 101.0	fL
METHOD : CALCULATED FROM RBC & HCT				
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	28.8		27.0 - 32.0	pg
METHOD : CALCULATED FROM THE RBC & HGB				
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD: CALCULATED FROM THE HGB & HCT	32.1		31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW)	12.6		11.6 - 14.0	%
METHOD: CALCULATED FROM RBC SIZE DISTRIBUTION CURVE				
MENTZER INDEX	17.7			
MEAN PLATELET VOLUME (MPV)	9.6		6.8 - 10.9	fL
METHOD: CALCULATED FROM PLATELET COUNT & PLATELET HEMATO	CRIT			
WBC DIFFERENTIAL COUNT				
NEUTROPHILS	55		40 - 80	%
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING				
LYMPHOCYTES	38		20 - 40	%
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING				
MONOCYTES	5		2 - 10	%
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING				
EOSINOPHILS	2		1 - 6	%
METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING				
ABSOLUTE NEUTROPHIL COUNT	4.08		2.0 - 7.0	thou/µL



METHOD: FLOW CYTOMETRY WITH LIGHT SCATTERING

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ABSOLUTE LYMPHOCYT	E COUNT	2.81		1.0 - 3.0	thou/µL
METHOD : FLOW CYTOMETRY	Y WITH LIGHT SCATTERING				
ABSOLUTE MONOCYTE		0.34		0.2 - 1.0	thou/µL
METHOD : FLOW CYTOMETRY	Y WITH LIGHT SCATTERING				
ABSOLUTE EOSINOPHI		0.14		0.02 - 0.50	thou/µL
METHOD : FLOW CYTOMETRY					
NEUTROPHIL LYMPHOC	CYTE RATIO (NLR)	1.5			
MORPHOLOGY					
RBC		NORMOCYTIC N	ORMOCHRO	MIC	
WBC		NORMAL MORPH	HOLOGY		
METHOD : MICROSCOPIC EX	(AMINATION				
PLATELETS		ADEQUATE			
ERYTHROCYTE SEDI	MENTATION RATE (ES	R),WHOLE			
E.S.R		3		< 20	mm at 1 hr
METHOD: MODIFIED WESTE	ERGREN				
GLYCOSYLATED HEM BLOOD	IOGLOBIN(HBA1C), ED	TA WHOLE			
НВА1С		6.9	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)	%
METHOD: HPLC					
ESTIMATED AVERAGE	GLUCOSE(EAG)	151.3	High	< 116.0	mg/dL
METHOD : CALCULATED PAR	AMETER				
GLUCOSE FASTING,F	LUORIDE PLASMA				
FBS (FASTING BLOOD	SUGAR)	134	High	Normal 75 - 99 Pre-diabetics: 100 - 125 Diabetic: > or = 126	mg/dL
METHOD : ENZYMATIC REFE	RENCE METHOD WITH HEXOKINA	SE			
GLUCOSE, POST-PRA	NDIAL, PLASMA				
PPBS(POST PRANDIAL	BLOOD SUGAR)	175	High	70 - 139	mg/dL
METHOD : ENZYMATIC REFE	RENCE METHOD WITH HEXOKINA	SE			

LIPID PROFILE, SERUM









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CHOLESTEROL, TOTAL	119	Desirable cholest < 200 Borderline high of 200 - 239 High cholesterol > / = 240	3,
METHOD: ENZYMATIC COLORIMETRIC ASSAY TRIGLYCERIDES	134	Normal: < 150 Borderline high: 150 - 199 High: 200 - 499 Very High: >/=	mg/dL 500
METHOD : ENZYMATIC COLORIMETRIC ASSAY HDL CHOLESTEROL	33	Low Low HDL Cholest	erol <40 mg/dL
METHOD : ENZYMATIC, COLORIMETRIC	33	High HDL Choles	
CHOLESTEROL LDL	59	Adult levels: Optimal < 100 Near optimal/abo 129 Borderline high: High: 160-189 Very high: = 19	
METHOD: ENZYMATIC COLORIMETRIC ASSAY			
NON HDL CHOLESTEROL	86	Desirable: < 13 Above Desirable Borderline High: High: 190 - 219 Very high: > / =	: 130 -159 160 - 189
VERY LOW DENSITY LIPOPROTEIN	26.8	< OR = 30.0	mg/dL
CHOL/HDL RATIO	3.6	Low Risk: 3.3 - Average Risk: 4 Moderate Risk: High Risk: > 11	.5 - 7.0 7.1 - 11.0
LDL/HDL RATIO	1.8	0.5 - 3.0 Desirat 3.1 - 6.0 Borderl >6.0 High Risk	le/Low Risk ine/Moderate Risk
LIVER FUNCTION PROFILE, SERUM			
BILIRUBIN, TOTAL METHOD: COLORIMETRIC DIAZO	0.46	Upto 1.2	mg/dL
BILIRUBIN, DIRECT	0.10	< 0.30	mg/dL
BILIRUBIN, INDIRECT	0.36	0.1 - 1.0	mg/dL
TOTAL PROTEIN METHOD: COLORIMETRIC	7.0	6.0 - 8.0	g/dL



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ALBUMIN	4.4		3.97 - 4.94	g/dL
METHOD : COLORIMETRIC	7.7		3.37 4.34	g/uL
GLOBULIN	2.6		2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO	1.7		1.0 - 2.1	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	38	Hiah	< OR = 35	U/L
METHOD: UV ABSORBANCE		,		3, =
ALANINE AMINOTRANSFERASE (ALT/SGPT)	28		< OR = 35	U/L
METHOD: UV ABSORBANCE				•
ALKALINE PHOSPHATASE	60		35 - 104	U/L
METHOD: COLORIMETRIC				
GAMMA GLUTAMYL TRANSFERASE (GGT)	44	High	0 - 40	U/L
METHOD : ENZYMATIC, COLORIMETRIC				
LACTATE DEHYDROGENASE	287	High	125 - 220	U/L
METHOD: UV ABSORBANCE				
BLOOD UREA NITROGEN (BUN), SERUM				
BLOOD UREA NITROGEN	8		6 - 20	mg/dL
METHOD : ENZYMATIC ASSAY				
CREATININE, SERUM				
CREATININE	0.55		0.5 - 0.9	mg/dL
METHOD : COLORIMETRIC				
BUN/CREAT RATIO				
BUN/CREAT RATIO	14.55		8.0 - 15.0	
URIC ACID, SERUM				
URIC ACID	5.3		2.4 - 5.7	mg/dL
METHOD: ENZYMATIC COLORIMETRIC ASSAY				
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN	7.0		6.0 - 8.0	g/dL
METHOD : COLORIMETRIC				
ALBUMIN, SERUM				
ALBUMIN	4.4		3.97 - 4.94	g/dL
METHOD : COLORIMETRIC				
GLOBULIN				
GLOBULIN	2.6		2.0 - 3.5	g/dL
ELECTROLYTES (NA/K/CL), SERUM				
SODIUM, SERUM	141		136 - 145	mmol/L
POTASSIUM, SERUM	4.98		3.5 - 5.1	mmol/L



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CHLORIDE, SERUM		103	98 - 107	mmol/L
PHYSICAL EXAMINA	TION, URINE	100	30 20,	
COLOR	•	PALE YELLOW		
APPEARANCE		SLIGHTLY HAZY		
CHEMICAL EXAMINA	TION, URINE			
PH		5.0	5.00 - 7.50	
SPECIFIC GRAVITY		1.015	1.010 - 1.030	
METHOD: URINE ROUTINE 8	& MICROSCOPY EXAMINAT	ON BY INTEGRATED AUTOMATED SYSTEM		
PROTEIN		NOT DETECTED	NOT DETECTED	
GLUCOSE		DETECTED (+)	NOT DETECTED	
KETONES		NOT DETECTED	NOT DETECTED	
BLOOD		NOT DETECTED	NOT DETECTED	
JROBILINOGEN		NORMAL	NORMAL	
NITRITE		NOT DETECTED	NOT DETECTED	
EUKOCYTE ESTERASE		DETECTED (+)	NOT DETECTED	
MICROSCOPIC EXAM	INATION, URINE			
RED BLOOD CELLS		NOT DETECTED	NOT DETECTED	/HPF
PUS CELL (WBC'S)		8-10	0-5	/HPF
EPITHELIAL CELLS		3-5	0-5	/HPF
CASTS		NOT DETECTED		
CRYSTALS		NOT DETECTED		
BACTERIA		NOT DETECTED	NOT DETECTED	
ŒAST .		NOT DETECTED	NOT DETECTED	
METHOD: URINE ROUTINE 8	& MICROSCOPY EXAMINAT	ION BY INTEGRATED AUTOMATED SYSTEM		
REMARKS				

PRESENCE OF URINARY GLUCOSE RECHECKED BY MANUAL METHOD.

THYROID PANEL, SERUM

T3 156.0 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



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T4 METHOD: ELECTROCHEMILUMINESCENCE	9.52	Non-Pregnant Women µg/dL 5.10 - 14.10 Pregnant Women 1st Trimester: 7.33 - 14.80 2nd Trimester: 7.93 - 16.10 3rd Trimester: 6.95 - 15.70	
TSH (ULTRASENSITIVE) METHOD: ELECTROCHEMILUMINESCENCE	0.974	Non Pregnant Women µIU/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	
PAPANICOLAOU SMEAR			
TEST METHOD METHOD: MICROSCOPIC EXAMINATION	CONVENTIONAL GY	NEC CYTOLOGY	
SPECIMEN TYPE	P-416/23		
METHOD: MICROSCOPIC EXAMINATION REPORTING SYSTEM		ERVICAL SMEARS RECEIVED	
SPECIMEN ADEQUACY	SATISFACTORY		
METHOD: PAP STAIN & MICROSCOPIC EXAMINATION MICROSCOPY	THE SMEARS SHOW FEW SUPERFICIAL SQUAMOUS CELLS, FEW INTERMEDIATE SQUAMOUS CELLS, MANY PARABASAL CELLS, BASAL CELLS AND OCCASIONAL CLUSTERS OF ENDOCERVICAL CELLS IN THE BACKGROUND OF FEW POLYMORPHS.		
METHOD : PAP STAIN			
INTERPRETATION / RESULT METHOD: PAP STAIN & MICROSCOPIC EXAMINATION	NEGATIVE FOR INTRAEPITHELIAL LESION OR MALIGNANCY		
- METHOD: PAP STAIN & MICROSCOPIC EXAMINATION	ATROPHY		
ENDOMETRIAL CELLS (IN A WOMAN >/= 45 YRS)	ABSENT		

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.

MICROSCOPIC EXAMINATION, STOOL

METHOD: PAP STAIN & MICROSCOPIC EXAMINATION



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REMARK SAMPLE NOT RECEIVED

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE AB

METHOD: GEL COLUMN AGGLUTINATION METHOD.

RH TYPE POSITIVE

METHOD: GEL COLUMN AGGLUTINATION METHOD.

XRAY-CHEST

IMPRESSION NO ABNORMALITY DETECTED

TMT OR ECHO

TMT OR ECHO NEGATIVE

ECG

ECG WITHIN NORMAL LIMITS

MAMOGRAPHY (BOTH BREASTS)

MAMOGRAPHY BOTH BREASTS SONO BREAST :- NORMAL

MEDICAL HISTORY

RELEVANT PRESENT HISTORY

NO NOW COUGH
RELEVANT PAST HISTORY

NOT SIGNIFICANT

RELEVANT PERSONAL HISTORY

MARRIED / 1 CHILD / MIXED DIET / NO ALLERGIES / NO SMOKING / NO

ALCOHOL.

LMP (FOR FEMALES) 15/02/2023

RELEVANT FAMILY HISTORY FATHER - HIGH BLOOD PRESSURE

HISTORY OF MEDICATIONS NOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS1.51mtsWEIGHT IN KGS.57Kgs

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 HEALTHY
BUILT / SKELETAL FRAMEWORK AVERAGE



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FACIAL APPEARANCE NORMAL
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 BREAST (FOR FEMALES) NORMAL TEMPERATURE NORMAL

PULSE 72/MIN.REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID

BRUIT

RESPIRATORY RATE NORMAL

CARDIOVASCULAR SYSTEM

BP 110/70 MM HG mm/Hg

PERICARDIUM NORMAL
APEX BEAT NORMAL
HEART SOUNDS NORMAL
MURMURS ABSENT

RESPIRATORY SYSTEM

SIZE AND SHAPE OF CHEST

MOVEMENTS OF CHEST

BREATH SOUNDS INTENSITY

NORMAL

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				
SENSORY SYSTEM	NORMAL				
MOTOR SYSTEM	NORMAL				
REFLEXES	NORMAL				
MUSCULOSKELETAL SYSTEM					
SPINE	NORMAL				
JOINTS	NORMAL				
BASIC EYE EXAMINATION	NOTA II L				
CONJUNCTIVA	NORMAL				
EYELIDS	NORMAL				
EYE MOVEMENTS	NORMAL				
CORNEA	NORMAL				
DISTANT VISION RIGHT EYE WITHOUT GLASSES	REDUCED VISUAL ACUITY 6/24				
DISTANT VISION LEFT EYE WITHOUT GLASSES	REDUCED VISUAL ACUITY 6/24				
DISTANT VISION RIGHT EYE WITH GLASSES	REDUCED VISUAL ACUITY 6/9				
DISTANT VISION LEFT EYE WITH GLASSES	WITH GLASSES NORMAL				
NEAR VISION RIGHT EYE WITHOUT GLASSES	REDUCED VISUAL ACUITY N/36				
NEAR VISION LEFT EYE WITHOUT GLASSES	REDUCED VISUAL ACUITY N/36				
NEAR VISION RIGHT EYE WITH GLASSES	WITHIN NORMAL LIMIT				
NEAR VISION LEFT EYE WITH GLASSES	WITHIN NORMAL LI	MIT			
COLOUR VISION	NORMAL				
SUMMARY					
RELEVANT HISTORY	NOT SIGNIFICANT				
RELEVANT GP EXAMINATION FINDINGS	NOT SIGNIFICANT				
REMARKS / RECOMMENDATIONS	PHYSICIANS CONSU LOW FAT,LOW CALC REGULAR EXERCISE REPEAT LIPID PROFI EXERCISE.	SYAECOLOGIST FOR UTERINE FIBROID. JLT FOR TREATMENT OF DIABETES DRIE, LOW CARBOHYDRATE, HIGH FIBRE DIET. E.REGULAR WALK FOR 30-40 MIN DAILY. ILE, BLOOD SUGAR AFTER 3 MONTHS OF DIET AND ENTEROLOGY CONSULT FOR CHOLELITHIASIS			

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)



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(<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.

ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD-**TEST DESCRIPTION**:-

Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automated instruments are available to measure ESR.

ESR is not diagnostic it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an inflammatory condition.CRP is superior to ESR because it is more sensitive and reflects a more rapid change.

TEST INTERPRETATION

Increase in: Infections, Vasculities, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy,

Estrogen medication, Aging.
Finding a very accelerated ESR(>100 mm/hour) in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias,

Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis). In pregnancy BRI in first trimester is 0-48 mm/hr(62 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum. Decreased in: Polycythermia vera, Sickle cell anemia

LIMITATIONS

False elevated ESR: Increased fibringgen, 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.
- 3. Identifying patients at increased risk for diabetes (prediabetes).

3. Identifying patients at increased risk for diabetes (prediabetes).

The ADA recommends measurement of HbA1c (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patients metabolic control has remained continuously within the target range.

1. eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.

2. eAG gives an evaluation of blood glucose levels for the last couple of months.

3. eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c - 46.7

HbA1c Estimation can get affected due to :

1. Shortened Erythrocyte survival: Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss,hemolytic anemia) will falsely lower HbA1c test results.Fructosamine is recommended in these patients which indicates diabetes control over 15 days.

2.Vitamin C & E are reported to falsely lower test results. (possibly by inhibiting glycation of hemoglobin.
3. Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia, uremia, hyperbilirubinemia, chronic alcoholism, chronic ingestion of salicylates & opiates addiction are reported to interfere with some assay methods, falsely increasing results 4. Interference of hemoglobinopathies in HbA1c estimation is seen in

- a) Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c.
- b) Heterozygous state detected (D10 is corrected for HbS & HbC trait.)
- c) HbF > 25% on alternate paltform (Boronate affinity chromatography) is recommended for testing of HbA1c. Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy

GLUCOSE 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.



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Email: customercare.thane@srl.in

PATIENT NAME: RUCHA R BHOIR PATIENT ID: RUCHF020566181

ACCESSION NO: **0181WC001353** AGE: 56 Years SEX: Female

DRAWN: RECEIVED: 20/03/2023 08:28 REPORTED: 24/03/2023 14:48

REFERRING DOCTOR: SFLF CLIENT PATIENT ID:

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

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.
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, ischemia to the liver, chronic hepatitis, obstruction of bile ducts, cirrhosis.

ALP is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bile ducts and bone. Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Pagets disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen

in Hypophosphatasia, Malnutrition, Protein deficiency, Wilsons disease. **GGT** is an enzyme found in cell membranes of many tissues mainly in the liver, kidney and pancreas. It is also found in other tissues including intestine, spleen, heart, brain and seminal vesicles. The highest concentration is in the kidney, but the liver is considered the source of normal enzyme activity. Serum GGT has been widely used as an index of liver dysfunction. Elevated serum GGT activity can be found in diseases of the liver, biliary system and pancreas. Conditions that increase serum GGT are obstructive liver disease, high alcohol consumption and use of enzyme-inducing drugs etc.

Total Protein also known as total protein, is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.Higher-than-normal levels may be due to:Chronic inflammation or infection,including HIV and hepatitis B or C,Multiple myeloma,Waldenstroms disease.Lower-than-normal levels may be due to: Agammaglobulinemia,Bleeding (hemorrhage),Burns,Glomerulonephritis,Liver disease, Malabsorption,Malnutrition,Nephrotic syndrome, Protein-losing enteropathy etc. **Albumin** is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels

(hypoalbuminemia) can be caused by:Liver disease like cirrhosis of the liver, nephrotic syndrome,protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc

BLOOD UREA NITROGEN (BUN), SERUM-Causes of Increased levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism)

Causes of decreased level include Liver disease, SIADH.

CREATININE, SERUM-Higher than normal level may be due to:

Blockage in the urinary tract, Kidney problems, such as kidney damage or failure, infection, or reduced blood flow, Loss of body fluid (dehydration), Muscle problems, such as breakdown of muscle fibers, Problems during pregnancy, such as seizures (eclampsia)), or high blood pressure caused by pregnancy (preeclampsia)

Lower than normal level may be due to: Myasthenia Gravis, Muscuophy
URIC ACID, SERUM-Causes of Increased levels:-Dietary(High Protein Intake,Prolonged Fasting,Rapid weight loss),Gout,Lesch nyhan syndrome,Type 2 DM,Metabolic

syndrome Causes of decreased levels-Low Zinc intake,OCP,Multiple Sclerosis

TOTAL PROTEIN, SERUM-is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.

Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma,Waldenstroms disease

Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc. ALBUMIN, SERUM-

Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc.

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

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 <u>Final</u> Results Units

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

ULTRASOUND ABDOMEN
ULTRASOUND ABDOMEN
GRADE I FATTY LIVER.
CHOLELITHIASIS.
LARGE UTERINE FIBROID.

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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