



CLIENT CODE : C000138364

CLIENT'S NAME AND ADDRESS :
ACROFEMI HEALTHCARE LTD (MEDIWHEEL)
F-703, LADO SARAI, MEHRAULI
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AHMEDABAD, 380015
GUJRAT, INDIA
Tel : 079-48912999, 079-48913999, 079-48914999
Email : customercare.ahmedabad@srl.in

PATIENT NAME : SAJANA KUMARI

PATIENT ID : SAJAF040692321

ACCESSION NO : 0321VG003216 AGE : 30 Years SEX : Female

ABHA NO :

DRAWN :

RECEIVED : 23-07-2022 10:47

REPORTED : 25-07-2022 16:28

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
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MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE**BLOOD COUNTS, EDTA WHOLE BLOOD**

HEMOGLOBIN	11.8	Low	12.0 - 15.0	g/dL
RED BLOOD CELL COUNT	4.36		3.8 - 4.8	mil/ μ L
WHITE BLOOD CELL COUNT	5.59		4.0 - 10.0	thou/ μ L
PLATELET COUNT	180		150 - 410	thou/ μ L

RBC AND PLATELET INDICES

HEMATOCRIT	37.1		36.0 - 46.0	%
MEAN CORPUSCULAR VOL	85.0		83.0 - 101.0	fL
MEAN CORPUSCULAR HGB.	27.0		27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	31.8		31.5 - 34.5	g/dL
MENTZER INDEX	19.5			
RED CELL DISTRIBUTION WIDTH	14.4	High	11.6 - 14.0	%
MEAN PLATELET VOLUME	10.4		6.8 - 10.9	fL

WBC DIFFERENTIAL COUNT - NLR

SEGMENTED NEUTROPHILS	45		40 - 80	%
ABSOLUTE NEUTROPHIL COUNT	2.52		2.0 - 7.0	thou/ μ L
LYMPHOCYTES	48	High	20 - 40	%
ABSOLUTE LYMPHOCYTE COUNT	2.68		1.0 - 3.0	thou/ μ L
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	0.9			
EOSINOPHILS	2		1.0 - 6.0	%
ABSOLUTE EOSINOPHIL COUNT	0.11		0.02 - 0.50	thou/ μ L
MONOCYTES	5		2.0 - 10.0	%
ABSOLUTE MONOCYTE COUNT	0.28		0.2 - 1.0	thou/ μ L
BASOPHILS	0		0 - 1	%
ABSOLUTE BASOPHIL COUNT	0.00	Low	0.02 - 0.10	thou/ μ L

DIFFERENTIAL COUNT PERFORMED ON:

EDTA SMEAR

MORPHOLOGY

RBC	NORMOCYTIC NORMOCHROMIC
WBC	RELATIVE LYMPHOCYTOSIS
PLATELETS	ADEQUATE
REMARKS	NO PREMATURE CELLS ARE SEEN. MALARIAL PARASITES ARE NOT DETECTED.

ERYTHRO SEDIMENTATION RATE, BLOOD

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SEDIMENTATION RATE (ESR)		03	0 - 20	mm at 1 hr
GLUCOSE, FASTING, PLASMA				
GLUCOSE, FASTING, PLASMA		92	74 - 99	mg/dL
GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD				
GLYCOSYLATED HEMOGLOBIN (HBA1C)		4.7	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%
MEAN PLASMA GLUCOSE		88.2	< 116.0	mg/dL
GLUCOSE, POST-PRANDIAL, PLASMA				
GLUCOSE, POST-PRANDIAL, PLASMA		88	70 - 140	mg/dL
CORONARY RISK PROFILE (LIPID PROFILE), SERUM.				
CHOLESTEROL		137	Desirable: < 200 BorderlineHigh: 200 - 239 High: > or = 240	mg/dL
TRIGLYCERIDES		75	Desirable: < 150 BorderlineHigh: 150 - 199 High: 200 - 499 Very High: > or = 500	mg/dL
HDL CHOLESTEROL		51	< 40 Low > or = 60 High	mg/dL
DIRECT LDL CHOLESTEROL		78	Optimal: < 100 NearOptimal/AboveOptimal: 100 - 129 BorderlineHigh: 130 - 159 High: 160 - 189 VeryHigh: = 190	mg/dL
NON HDL CHOLESTEROL		86	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
CHOL/HDL RATIO		2.7	Low 3.30 - 4.40	
LDL/HDL RATIO		1.5	0.5 - 3.0	
VERY LOW DENSITY LIPOPROTEIN		15.0	< or = 30.0	mg/dL





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Interpretation(s)

Serum lipid profile is measured for cardiovascular risk prediction, the test includes five basic parameters: total cholesterol, triglycerides, HDL cholesterol, LDL cholesterol and Non HDL cholesterol.

- Cholesterol levels help assess the patient risk status and to follow the progress of patient under treatment to lower serum cholesterol concentrations.
- Serum Triglyceride (TG) are a type of fat and a major source of energy for the body.
 - Both quantity and composition of the diet impact on plasma triglyceride concentrations
 - Elevations in TG levels are the result of overproduction and impaired clearance.
 - High TG are associated with increased risk for CAD (Coronary artery disease) in patients with other risk factors, such as low HDL-C, some patient groups with elevated apolipoprotein B concentrations, and patients with forms of LDL that may be particularly atherogenic.
- HDL-C plays a crucial role in the initial step of reverse cholesterol transport, this considered to be the primary atheroprotective function of HDL
- LDL -C plays a key role in causing and influencing the progression of atherosclerosis and, in particular, coronary sclerosis. The majority of cholesterol stored in atherosclerotic plaques originates from LDL, thus LDL-C value is the most powerful clinical predictor.
- Non HDL cholesterol: Non-HDL-C measures the cholesterol content of all atherogenic lipoproteins, including LDL hence it is a better marker of risk in both primary and secondary prevention studies. Non-HDL-C also covers, to some extent, the excess ASCVD risk imparted by the sdLDL, which is significantly more atherogenic than the normal large buoyant particles, an elevated non-HDL-C indirectly suggests greater proportion of the small, dense variety of LDL particles

Lipid Association of India recommends LDL-C as primary target and Non HDL-C as co-primary treatment target.

Risk Stratification for ASCVD (Atherosclerotic cardiovascular disease) by Lipid Association of India

Risk Category	
Extreme risk group	A. CAD with > 1 feature of high risk group
	B. CAD with > 1 feature of Very high risk group or recurrent ACS (within 1 year) despite LDL-C < or = 50 mg/dl or polyvascular disease
Very High Risk	1. Established ASCVD 2. Diabetes with 2 major risk factors or evidence of end organ damage 3. Familial Homozygous Hypercholesterolemia
High Risk	1. Three major ASCVD risk factors. 2. Diabetes with 1 major risk factor or no evidence of end organ damage. 3. CKD stage 3B or 4. 4. LDL >190 mg/dl 5. Extreme of a single risk factor. 6. Coronary Artery Calcium - CAC >300 AU. 7. Lipoprotein a >/= 50mg/dl 8. Non stenotic carotid plaque
Moderate Risk	2 major ASCVD risk factors
Low Risk	0-1 major ASCVD risk factors
Major ASCVD (Atherosclerotic cardiovascular disease) Risk Factors	
1. Age > or = 45 years in males and > or = 55 years in females	3. Current Cigarette smoking or tobacco use
2. Family history of premature ASCVD	4. High blood pressure
5 Low HDL	



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Newer treatment goals and statin initiation thresholds based on the risk categories proposed by LAI in 2020

Risk Group	Treatment Goals		Consider Drug Therapy	
	LDL-C (mg/dl)	Non-HDL (mg/dl)	LDL-C (mg/dl)	Non-HDL (mg/dl)
Extreme Risk Group Category A	<50 (Optional goal < OR = 30)	< 80 (Optional goal <OR = 60)	>OR = 50	>OR = 80
Extreme Risk Group Category B	<OR = 30	<OR = 60	> 30	>60
Very High Risk	<50	<80	>OR= 50	>OR= 80
High Risk	<70	<100	>OR= 70	>OR= 100
Moderate Risk	<100	<130	>OR= 100	>OR= 130
Low Risk	<100	<130	>OR= 130*	>OR= 160

*After an adequate non-pharmacological intervention for at least 3 months

References:

Management of Dyslipidaemia for the Prevention of Stroke: Clinical Practice Recommendations from the Lipid Association of India. Current Vascular Pharmacology, 2022, 20, 134-155.

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL	0.68		Upto 1.2	mg/dL
BILIRUBIN, DIRECT	0.28	High	Upto 0.2	mg/dL
BILIRUBIN, INDIRECT	0.40		0.00 - 1.00	mg/dL
TOTAL PROTEIN	7.0		6.4 - 8.3	g/dL
ALBUMIN	4.9		3.5 - 5.2	g/dL
GLOBULIN	2.1		2.0 - 4.1	g/dL
ALBUMIN/GLOBULIN RATIO	2.3	High	1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	16		0 - 32	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT)	10		0 - 33	U/L
ALKALINE PHOSPHATASE	47		35 - 104	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT)	9		5 - 36	U/L
LACTATE DEHYDROGENASE	142		135 - 214	U/L

SERUM BLOOD UREA NITROGEN

BLOOD UREA NITROGEN	7		6 - 20	mg/dL
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CREATININE, SERUM

CREATININE	0.51	Low	0.60 - 1.10	mg/dL
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BUN/CREAT RATIO

BUN/CREAT RATIO	13.73		5.0 - 15.0	
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URIC ACID, SERUM				
URIC ACID		2.8	2.4 - 5.7	mg/dL
ELECTROLYTES (NA/K/CL), SERUM				
SODIUM		140.8	136- 145	mmol/L
POTASSIUM		4.41	3.50- 5.10	mmol/L
CHLORIDE		105.6	98 - 107	mmol/L
PHYSICAL EXAMINATION, URINE				
COLOR		Yellow		
APPEARANCE		Clear		
SPECIFIC GRAVITY		1.015	1.003 - 1.035	
CHEMICAL EXAMINATION, URINE				
PH		7.0	4.7 - 7.5	
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				
PUS CELL (WBC'S)		1-2	0-5	/HPF
EPITHELIAL CELLS		2-3	0-5	/HPF
ERYTHROCYTES (RBC'S)		NOT DETECTED	NOT DETECTED	/HPF
CASTS		NOT DETECTED		
CRYSTALS		NOT DETECTED		
BACTERIA		NOT DETECTED	NOT DETECTED	
YEAST		NOT DETECTED	NOT DETECTED	
REMARKS		MICROSCOPIC EXAMINATION OF URINE IS CARRIED OUT ON CENTRIFUGED URINARY SEDIMENT.		
THYROID PANEL, SERUM				
T3		113.6	80.00 - 200.00	ng/dL
T4		9.17	5.10 - 14.10	µg/dL
TSH 3RD GENERATION		3.410	0.270 - 4.200	µIU/mL
PAPANICOLAOU SMEAR				



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TEST METHOD	CONVENTIONAL GYNEC CYTOLOGY
SPECIMEN TYPE	TWO UNSTAINED CERVICAL SMEARS RECEIVED
REPORTING SYSTEM	2014 BETHESDA SYSTEM FOR REPORTING CERVICAL CYTOLOGY
SPECIMEN ADEQUACY	SATISFACTORY
MICROSCOPY	SMEARS SHOW PREDOMINANTLY SUPERFICIAL AND INTERMEDIATE SQUAMOUS CELLS AGAINST CLEAR BACKGROUND. ENDOCERVICAL CELLS NOT SEEN.
INTERPRETATION / RESULT	NO EVIDENCE OF DYSPLASIA OR MALIGNANT CELLS SEEN ON SMEARS. NEGATIVE FOR INTRAEPITHELIAL LESION OR MALIGNANCY

Comments

Please note PAP smear is a screening procedure for cervical cancer with inherent false negative result, hence should be interpreted with caution.

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE B

RH TYPE POSITIVE

XRAY-CHEST

IMPRESSION NO ABNORMALITY DETECTED

TMT OR ECHO

TMT OR ECHO TMT:- NORMAL

ECG

ECG "T" WAVE INVERSION IN V3, LOW VOLTAGE

MEDICAL HISTORY

RELEVANT PRESENT HISTORY NOT SIGNIFICANT

RELEVANT PAST HISTORY P/H/O RIGHT FALLOPIAN TUBE REMOVAL 2 YEARS BACK

RELEVANT PERSONAL HISTORY NOT SIGNIFICANT

MENSTRUAL HISTORY (FOR FEMALES) REGULAR

LMP (FOR FEMALES) 04/07/2022

OBSTETRIC HISTORY (FOR FEMALES) G1,P0,A1,L2

RELEVANT FAMILY HISTORY NOT SIGNIFICANT

OCCUPATIONAL HISTORY NOT SIGNIFICANT

HISTORY OF MEDICATIONS FERTILITY TREATMENT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.52 mts

WEIGHT IN KGS. 51.4 Kgs



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BMI	22	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		
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GENERAL EXAMINATION

MENTAL / EMOTIONAL STATE	NORMAL
PHYSICAL ATTITUDE	NORMAL
GENERAL APPEARANCE / NUTRITIONAL STATUS	HEALTHY
BUILT / SKELETAL FRAMEWORK	AVERAGE
FACIAL APPEARANCE	NORMAL
SKIN	NORMAL
UPPER LIMB	NORMAL
LOWER LIMB	NORMAL
NECK	NORMAL
NECK LYMPHATICS / SALIVARY GLANDS	NOT ENLARGED OR TENDER
THYROID GLAND	NOT ENLARGED
TEMPERATURE	NORMAL
PULSE	66/MIN
RESPIRATORY RATE	NORMAL

CARDIOVASCULAR SYSTEM

BP	110/70 MM HG (SITTING)	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
LIVER	NOT PALPABLE



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SPLEEN

NOT PALPABLE

CENTRAL NERVOUS SYSTEM

HIGHER FUNCTIONS

NORMAL

CRANIAL NERVES

NORMAL

CEREBELLAR FUNCTIONS

NORMAL

SENSORY SYSTEM

NORMAL

MOTOR SYSTEM

NORMAL

REFLEXES

NORMAL

MUSCULOSKELETAL SYSTEM

SPINE

NORMAL

JOINTS

NORMAL

BASIC EYE EXAMINATION

DISTANT VISION RIGHT EYE WITHOUT GLASSES

WITHIN NORMAL LIMIT

DISTANT VISION LEFT EYE WITHOUT GLASSES

WITHIN NORMAL LIMIT

NEAR VISION RIGHT EYE WITHOUT GLASSES

WITHIN NORMAL LIMIT

NEAR VISION LEFT EYE WITHOUT GLASSES

WITHIN NORMAL LIMIT

COLOUR VISION

NORMAL

SUMMARY

RELEVANT HISTORY

NOT SIGNIFICANT

RELEVANT GP EXAMINATION FINDINGS

NOT SIGNIFICANT

RELEVANT LAB INVESTIGATIONS

HEMOGLOBIN:- LOW

RELEVANT NON PATHOLOGY DIAGNOSTICS

ECG:- "T" WAVE INVERSION IN V3, LOW VOLTAGE

REMARKS / RECOMMENDATIONS

USG ABDOMEN:- ANTEVERTED UTERUS

1) HEMOGLOBIN:- LOW

ADV:- TAKE MORE DIETARY IRON

2) ECG:- "T" WAVE INVERSION IN V3, LOW VOLTAGE

ADV:- S. TSH LEVEL, 2D ECHO

Comments

OUR PANEL DOCTORS FOR NON-PATHOLOGY TESTS:-

GENERAL PHYSICIAN:- DR. PRIYANK KAPADIYA (M.B.B.S DNB MEDICINE)

RADIOLOGIST:- DR. KALPANA MODI (M.D.RADIOLOGY) // DR. SAHIL N SHAH (M.D.RADIOLOGY)



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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 :

- Nathan and Oski's Haematology of Infancy and Childhood, 5th edition
- Paediatric reference intervals. AACCPress, 7th edition. Edited by S. Soldin
- The reference for the adult reference range is "Practical Haematology by Dacie and Lewis, 10th Edition"

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

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

- 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.
- Forsham PH. Diabetes Mellitus: A rational plan for management. Postgrad Med 1982, 71, 139-154.
- 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.

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 result 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





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PATIENT NAME : SAJANA KUMARI

PATIENT ID : SAJAF040692321

ACCESSION NO : 0321VG003216 **AGE :** 30 Years **SEX :** Female

ABHA NO :

DRAWN : **RECEIVED :** 23-07-2022 10:47

REPORTED : 25-07-2022 16:28

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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.

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

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 hyperfunction, 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,





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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, TSH3G & Total T3

Levels in	TOTAL T4 (µg/dL)	TSH3G (µIU/mL)	TOTAL T3 (ng/dL)
Pregnancy			
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:

- Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.
- Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
- 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-*****
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MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE**ULTRASOUND ABDOMEN****ULTRASOUND ABDOMEN****ANTEVERTED UTERUS******End Of Report****Please visit www.srlworld.com for related Test Information for this accession

Dr. Priyank Kapadia
Physician

Dr. Kalpana Modi
Radiologist

Dr. Sahil .N. Shah
Consultant Radiologist

Dr. Miral Gajera
Consultant Pathologist

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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 (DOS).
3. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
4. A requested test might not be performed if:
 - a. Specimen received is insufficient or inappropriate specimen quality is unsatisfactory
 - b. Incorrect specimen type
 - c. Request for testing is withdrawn by the ordering doctor or patient
 - d. There is a discrepancy between the label on the specimen container and the name on the test requisition form
5. The results of a laboratory test are dependent on the quality of the sample as well as the assay technology.
6. Result delays could be because of uncontrolled circumstances. e.g. assay run failure.
7. Tests parameters marked by asterisks are excluded from the "scope" of NABL accredited tests. (If laboratory is accredited).
8. Laboratory results should be correlated with clinical information to determine Final diagnosis.
9. Test results are not valid for Medico- legal purposes.
10. In case of queries or unexpected test results please call at SRL customer care (Toll free: 1800-222-000). Post proper investigation repeat analysis may be carried out.

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