



Patient Ref. No. 82000000377246

CLIENT CODE : C000138384

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
30-B, CHOWRINGEE MANSION, JAWAHARLAL NEHRU ROAD,
KOLKATA, 700016
WEST BENGAL, INDIA
Tel : 033-22267333,46019048, Fax : 033-22271324
CIN - U74899PB1995PLC045956

PATIENT NAME : SHEELU MANDAL

PATIENT ID : SHEEF18128182

ACCESSION NO : 0082VC030085 AGE : 40 Years SEX : Female

DRAWN : 30-03-2022 09:00

RECEIVED : 30-03-2022 09:10

REPORTED : 01-04-2022 13:19

REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL)

CLIENT PATIENT ID :

Table with 4 columns: Test Report Status, Results, Biological Reference Interval, Units. Status is Final.

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

BLOOD COUNTS,EDTA WHOLE BLOOD

Table with 5 columns: Test Name, Value, Flag, Reference Range, Unit. Includes Hemoglobin, RBC count, WBC count, Platelet count.

RBC AND PLATELET INDICES

Table with 5 columns: Test Name, Value, Flag, Reference Range, Unit. Includes Hematocrit, Mean Corpuscular Vol, Mean Corpuscular Hgb, etc.

WBC DIFFERENTIAL COUNT - NLR

Table with 5 columns: Test Name, Value, Flag, Reference Range, Unit. Includes Segmented Neutrophils, Lymphocytes, Eosinophils, Monocytes, Basophils.

MORPHOLOGY

RBC: NORMOCYTIC NORMOCHROMIC
WBC: NO IMMATURE CELLS SEEN.
PLATELETS: ADEQUATE

ERYTHRO SEDIMENTATION RATE, BLOOD

Table with 4 columns: Test Name, Value, Reference Range, Unit. ESR is 11 mm at 1 hr.

METHOD : AUTOMATED (PHOTOMETRICAL CAPILLARY STOPPED FLOW KINETIC ANALYSIS)"



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GLUCOSE, FASTING, PLASMA

GLUCOSE, FASTING, PLASMA	89	74 - 100	mg/dL
METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)			

GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD

GLYCOSYLATED HEMOGLOBIN (HBA1C)	5.5	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	111.2	< 116.0	mg/dL
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GLUCOSE, POST-PRANDIAL, PLASMA

GLUCOSE, POST-PRANDIAL, PLASMA	86	140 Normal 140 - 199 Pre-diabetic > or = 200 Diabetic	mg/dL
METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)			

CORONARY RISK PROFILE (LIPID PROFILE), SERUM.

CHOLESTEROL	128	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD : ENZYMATIC ASSAY			

TRIGLYCERIDES	47	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
METHOD : GLYCEROL PHOSPHATE OXIDASE			

HDL CHOLESTEROL	40	Low : < 40 High : > / = 60	mg/dL
METHOD : ACCELERATOR SELECTIVE DETERGENT METHODOLOGY			

DIRECT LDL CHOLESTEROL	99	Adult Optimal : < 100 Near optimal : 100 - 129 Borderline high : 130 - 159 High : 160 - 189 Very high : > or = 190	mg/dL
METHOD : MEASURED, LIQUID SELECTIVE DETERGENT			

NON HDL CHOLESTEROL	88	Desirable: Less than 130 Above Desirable: 130-159 Borderline High: 160-189 High: 190 -219 Very High: >or = 220	mg/dL
METHOD : CALCULATED			



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CHOL/HDL RATIO	3.2	Low	3.3 - 4.4 Low Risk 4.5-7.0 Average Risk 7.1 - 11.0 Moderate Risk > 11.0 High Risk	
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METHOD : CALCULATED

LDL/HDL RATIO	2.5		0.5 - 3.0 Desirable/ Low Risk 3.1-6.0 Borderline /Moderate Risk > 6.0 High Risk	
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METHOD : CALCULATED

VERY LOW DENSITY LIPOPROTEIN	9.4		< or = 30	mg/dL
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METHOD : CALCULATED

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL	0.67		0.2 - 1.2	mg/dL
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METHOD : DIAZONIUM SALT

BILIRUBIN, DIRECT	0.28		0.0 - 0.5	mg/dL
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METHOD : DIAZO REACTION

BILIRUBIN, INDIRECT	0.39		0.1 - 1.0	mg/dL
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METHOD : CALCULATED

TOTAL PROTEIN	7.0		6.0 - 8.30	g/dL
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METHOD : BIURET

ALBUMIN	3.7		3.5 - 5.2	g/dL
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METHOD : COLORIMETRIC (BROMCRESOL GREEN)

GLOBULIN	3.3		2.0 - 3.5	g/dL
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ALBUMIN/GLOBULIN RATIO	1.1		1 - 2.1	RATIO
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METHOD : CALCULATED PARAMETER

ASPARTATE AMINOTRANSFERASE (AST/SGOT)	17		5 - 34	U/L
---------------------------------------	----	--	--------	-----

METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)

ALANINE AMINOTRANSFERASE (ALT/SGPT)	13		0 - 55	U/L
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METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)

ALKALINE PHOSPHATASE	81		40 - 150	U/L
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METHOD : PARA-NITROPHENYL PHOSPHATE

GAMMA GLUTAMYL TRANSFERASE (GGT)	12		8 -33	U/L
----------------------------------	----	--	-------	-----

METHOD : L-GAMMA-GLUTAMYL-4-NITROANALIDE /GLYCYLGLYCINE KINETIC METHOD

LACTATE DEHYDROGENASE	162		125 - 220	U/L
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METHOD : IFCC LACTATE TO PYRUVATE

SERUM BLOOD UREA NITROGEN

BLOOD UREA NITROGEN	9		7.0 - 18.7	mg/dL
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METHOD : UREASE METHOD

CREATININE, SERUM





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CREATININE	0.69	0.57 - 1.11	mg/dL
METHOD : KINETIC ALKALINE PICRATE			

BUN/CREAT RATIO

BUN/CREAT RATIO	13.04	5.0 - 15.0	
-----------------	-------	------------	--

URIC ACID, SERUM

URIC ACID	3.5	2.6 - 6.0	mg/dL
METHOD : URICASE			

TOTAL PROTEIN, SERUM

TOTAL PROTEIN	7.0	6.0 - 8.3	g/dL
METHOD : BIURET			

ALBUMIN, SERUM

ALBUMIN	3.7	3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)			

GLOBULIN

GLOBULIN	3.3	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAMETER			

ELECTROLYTES (NA/K/CL), SERUM

SODIUM	135	Low 136 - 145	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			

POTASSIUM	4.50	3.5 - 5.1	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			

CHLORIDE	104	98 - 107	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			

URINALYSIS

COLOR PALE YELLOW

APPEARANCE CLEAR

PH 6.0 4.7 - 7.5

SPECIFIC GRAVITY	1.010	1.003 - 1.035	
METHOD : DIPSTICK			

GLUCOSE	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			

PROTEIN	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			

KETONES	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			

BLOOD	DETECTED (+) IN URINE	NOT DETECTED	
METHOD : DIPSTICK			



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Main test results table with columns: Test Name, Results, Biological Reference Interval, Units. Includes Bilirubin, Urobilinogen, Nitrite, Pus Cell, Epithelial Cells, Erythrocytes, Casts, Crystals, Bacteria.

Comments

URINALYSIS: MICROSCOPIC EXAMINATION IS CARRIED OUT ON CENTRIFUGED URINARY SEDIMENT.

THYROID PANEL, SERUM

Table for Thyroid Panel results including T3, T4, and TSH 3rd Generation with values and reference ranges.

PAPANICOLAOU SMEAR

SPECIMEN TYPE SAMPLE NOT RECEIVED

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE B

METHOD : GEL CARD METHOD

RH TYPE POSITIVE

METHOD : GEL CARD METHOD

XRAY-CHEST

IMPRESSION NO ABNORMALITY DETECTED

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN NO ABNORMALITIES DETECTED

TMT OR ECHO

TMT OR ECHO

ECHO DONE INSTEAD OF TMT;
ECHO - NORMAL STUDY.





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ECG

ECG WITHIN NORMAL LIMITS

MEDICAL HISTORY

RELEVANT PRESENT HISTORY NOT SIGNIFICANT
RELEVANT PAST HISTORY NOT SIGNIFICANT
RELEVANT PERSONAL HISTORY NOT SIGNIFICANT
RELEVANT FAMILY HISTORY MOTHER : DIABETIC
OCCUPATIONAL HISTORY NOT SIGNIFICANT
HISTORY OF MEDICATIONS NOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.61 mts
WEIGHT IN KGS. 65 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 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
CAROTID PULSATION NORMAL
TEMPERATURE NORMAL
PULSE 89/MINS
RESPIRATORY RATE NORMAL

CARDIOVASCULAR SYSTEM

BP 98/62 mm/Hg
PERICARDIUM NORMAL



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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

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

CONJUNCTIVA	NORMAL
EYELIDS	NORMAL
EYE MOVEMENTS	NORMAL
DISTANT VISION RIGHT EYE WITHOUT GLASSES	6/6
DISTANT VISION LEFT EYE WITHOUT GLASSES	6/6
NEAR VISION RIGHT EYE WITHOUT GLASSES	N6
NEAR VISION LEFT EYE WITHOUT GLASSES	N6

BASIC ENT EXAMINATION

EXTERNAL EAR CANAL	NORMAL
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TYMPANIC MEMBRANE

NORMAL

NOSE

NO ABNORMALITY DETECTED

SINUSES

CLEAR

THROAT

NO ABNORMALITY DETECTED

TONSILS

NOT ENLARGED

BASIC DENTAL EXAMINATION

TEETH

NORMAL

GUMS

HEALTHY

SUMMARY

REMARKS / RECOMMENDATIONS

Mrs. MANDAL CAME FOR ANNUAL HEALTH CHECK-UP. ON EXAMINATION AND INVESTIGATIONS SHE IS FOUND TO BE IN GOOD HEALTH.

ADVISED :

- VISION CORRECTION.

Comments

MEDICAL EXAMINATION DONE BY:
DR. B. N. JANA, MBBS, DCH
CONSULTANT
WELLNESS CLINIC
PARK STREET, KOLKATA

Interpretation(s)

BLOOD COUNTS-

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-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. AACCPress, 7th edition. Edited by S. Soldin
3. 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



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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.

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.
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.

CORONARY RISK PROFILE (LIPID PROFILE), SERUM.-

Serum cholesterol is a blood test that can provide valuable information for the risk of coronary artery disease This test can help determine your risk of the build up of plaques in your arteries that can lead to narrowed or blocked arteries throughout your body (atherosclerosis). High cholesterol levels usually don't cause any signs or symptoms, so a cholesterol test is an important tool. High cholesterol levels often are a significant risk factor for heart disease and important for diagnosis of hyperlipoproteinemia, atherosclerosis, hepatic and thyroid diseases.

Serum Triglyceride are a type of fat in the blood. When you eat, your body converts any calories it doesn't need into triglycerides, which are stored in fat cells. High triglyceride levels are associated with several factors, including being overweight, eating too many sweets or drinking too much alcohol, smoking, being sedentary, or having diabetes with elevated blood sugar levels. Analysis has proven useful in the diagnosis and treatment of patients with diabetes mellitus, nephrosis, liver obstruction, other diseases involving lipid metabolism, and various endocrine disorders. In conjunction with high density lipoprotein and total serum cholesterol, a triglyceride determination provides valuable information for the assessment of coronary heart disease risk.It is done in fasting state.

High-density lipoprotein (HDL) cholesterol. This is sometimes called the "'good'" cholesterol because it helps carry away LDL cholesterol, thus keeping arteries open and blood flowing more freely.HDL cholesterol is inversely related to the risk for cardiovascular disease. It increases following regular exercise, moderate alcohol consumption and with oral estrogen therapy. Decreased levels are associated with obesity, stress, cigarette smoking and diabetes mellitus.

SERUM LDL The small dense LDL test can be used to determine cardiovascular risk in individuals with metabolic syndrome or established/progressing coronary artery disease, individuals with triglyceride levels between 70 and 140 mg/dL, as well as individuals with a diet high in trans-fat or carbohydrates. Elevated sdLDL levels are associated with metabolic syndrome and an 'atherogenic lipoprotein profile', and are a strong, independent predictor of cardiovascular disease. Elevated levels of LDL arise from multiple sources. A major factor is sedentary lifestyle with a diet high in saturated fat. Insulin-resistance and pre-diabetes have also been implicated, as has genetic predisposition. Measurement of sdLDL allows the clinician to get a more comprehensive picture of lipid risk factors and tailor treatment accordingly. Reducing LDL levels will reduce the risk of CVD and MI.

Recommendations:

Results of Lipids should always be interpreted in conjunction with the patient's medical history, clinical presentation and other findings.

NON FASTING LIPID PROFILE includes Total Cholesterol, HDL Cholesterol and calculated non-HDL Cholesterol. It does not include triglycerides and may be best used in patients for whom fasting is difficult.

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



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Patient Ref. No. 8200000377246

CLIENT CODE : C000138384

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CIN - U74899PB1995PLC045956

PATIENT NAME : SHEELU MANDAL

PATIENT ID : SHEEF18128182

ACCESSION NO : 0082VC030085 AGE : 40 Years SEX : Female

DRAWN : 30-03-2022 09:00 RECEIVED : 30-03-2022 09:10 REPORTED : 01-04-2022 13:19

REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL)

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Table with 5 columns: Test Report Status, Final, Results, Biological Reference Interval, Units

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

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)





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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,

URINALYSIS-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

Table with 4 columns: Levels in, TOTAL T4, TSH3G, TOTAL T3. Rows for Pregnancy, First Trimester, 2nd Trimester, 3rd Trimester.

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

Table with 2 columns: T3, T4. Rows for New Born, 1-3 day, 1 Week.

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 INVIOABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE. HOWEVER, ALL EXAMINATIONS AND INVESTIGATIONS HAVE BEEN CONDUCTED BY OUR PANEL OF DOCTORS.

End Of Report

Please visit www.srlworld.com for related Test Information for this accession





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