



Patient Ref. No. 7100000301151

CLIENT CODE : C000138381

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
SRL Wellness Centre, SCO. 13, Sector 16 Market, Faridabad
FARIDABAD, 121001
Haryana, INDIA
Tel : 9111591115, Fax :
CIN - U74899PB1995PLC045956

PATIENT NAME : LALIT KISHORE

PATIENT ID : LALIM12068371

ACCESSION NO : 0071VE000917 AGE : 38 Years SEX : Male

DRAWN : RECEIVED : 28/05/2022 14:39 REPORTED : 30/05/2022 12:09

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
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MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

BLOOD COUNTS,EDTA WHOLE BLOOD

HEMOGLOBIN	12.6	Low 13.0 - 17.0	g/dL
METHOD : SPECTROPHOTOMETRY			
RED BLOOD CELL COUNT	4.32	Low 4.5 - 5.5	mil/ μ L
METHOD : IMPEDANCE			
WHITE BLOOD CELL COUNT	5.45	4.0 - 10.0	thou/ μ L
METHOD : IMPEDANCE			
PLATELET COUNT	160	150 - 410	thou/ μ L
METHOD : IMPEDANCE			

RBC AND PLATELET INDICES

HEMATOCRIT	40.1	40 - 50	%
METHOD : CALCULATED			
MEAN CORPUSCULAR VOL	92.8	83 - 101	fL
METHOD : DERIVED FROM IMPEDANCE MEASURE			
MEAN CORPUSCULAR HGB.	29.1	27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	31.3	Low 31.5 - 34.5	g/dL
METHOD : CALCULATED PARAMETER			
MENTZER INDEX	21.5		
RED CELL DISTRIBUTION WIDTH	18.1	High 11.6 - 14.0	%
METHOD : DERIVED FROM IMPEDANCE MEASURE			
MEAN PLATELET VOLUME	12.5	High 6.8 - 10.9	fL
METHOD : DERIVED FROM IMPEDANCE MEASURE			

WBC DIFFERENTIAL COUNT - NLR

SEGMENTED NEUTROPHILS	60	40 - 80	%
METHOD : DHSS FLOWCYTOMETRY			
ABSOLUTE NEUTROPHIL COUNT	3.27	2.0 - 7.0	thou/ μ L
METHOD : DHSS FLOWCYTOMETRY, CALCULATED			
LYMPHOCYTES	32	20 - 40	%
METHOD : DHSS FLOWCYTOMETRY			
ABSOLUTE LYMPHOCYTE COUNT	1.74	1 - 3	thou/ μ L
METHOD : DHSS FLOWCYTOMETRY, CALCULATED			
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.9		
METHOD : CALCULATED			
EOSINOPHILS	3	1 - 6	%



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Main test results table including: ABSOLUTE EOSINOPHIL COUNT, MONOCYTES, ABSOLUTE MONOCYTE COUNT, BASOPHILS, ABSOLUTE BASOPHIL COUNT, ERYTHRO SEDIMENTATION RATE, BLOOD, GLUCOSE, FASTING, PLASMA, GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD, MEAN PLASMA GLUCOSE, GLUCOSE, POST-PRANDIAL, PLASMA, CORONARY RISK PROFILE (LIPID PROFILE), SERUM.





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TRIGLYCERIDES **205** **High** Normal: < 150 mg/dL
 Borderline high : 150 - 199
 High: 200 - 499
 Very High : > /= 500

METHOD : SPECTROPHOTOMETRY,GPO-POD METHOD

HDL CHOLESTEROL **31** **Low** Low HDL cholesterol mg/dL
 < 40
 High HDL cholesterol
 > or = 60

METHOD : SPECTROPHOTOMETRY, HOMOGENEOUS DIRECT ENZYMATIC COLORIMETRIC

DIRECT LDL CHOLESTEROL **124.80** **High** Adult Optimal: mg/dL
 < 100
 Near Optimal:
 100 - 129
 Borderline High: 130 - 159
 High: 160 - 189
 Very High: > or = 190

METHOD : SPECTROPHOTOMETRY, ELIMINATION / CATALASE

NON HDL CHOLESTEROL **149** **High** Desirable : < 130 mg/dL
 Above Desirable : 130 -159
 Borderline High : 160 - 189
 High : 190 - 219
 Very high : > or = 220

METHOD : CALCULATED PARAMETER

CHOL/HDL RATIO **5.8** **High** Low Risk : 3.3 - 4.4
 Average Risk : 4.5 - 7.0
 Moderate Risk : 7.1 - 11.0
 High Risk : > 11.0

METHOD : CALCULATED PARAMETER

LDL/HDL RATIO **4.0** **High** Desirable/Low Risk: mg/dL
 0.5 - 3.0
 Borderline/Moderate Risk:
 3.1 - 6.0
 High Risk: > 6.0

METHOD : CALCULATED PARAMETER

VERY LOW DENSITY LIPOPROTEIN **41.0** **High** < or = 30 mg/dL

METHOD : CALCULATED PARAMETER

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL 1.1 0.2 - 1.2 mg/dL

METHOD : SPECTROPHOTOMETRY, VANADATE OXIDATION

BILIRUBIN, DIRECT 0.5 **High** 0.01 - 0.30 mg/dL

METHOD : SPECTROPHOTOMETRY, VANADATE OXIDATION

BILIRUBIN, INDIRECT 0.60 0.1 - 1.0 mg/dL

METHOD : CALCULATED PARAMETER

TOTAL PROTEIN 7.5 5.7 - 8.2 g/dL





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Main table of test results including Albumin, Globulin, Albumin/Globulin Ratio, Aspartate Aminotransferase, Alanine Aminotransferase, Alkaline Phosphatase, Gamma Glutamyl Transferase, Lactate Dehydrogenase.

SERUM BLOOD UREA NITROGEN

Blood Urea Nitrogen result: 13.9 mg/dL

CREATININE, SERUM

Creatinine result: 0.78 mg/dL

BUN/CREAT RATIO

BUN/Creat Ratio result: 17.82

URIC ACID, SERUM

Uric Acid result: 5.9 mg/dL

TOTAL PROTEIN, SERUM

Total Protein result: 7.5 g/dL

ALBUMIN, SERUM

Albumin result: 4.7 g/dL

GLOBULIN

Globulin result: 2.8 g/dL



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ELECTROLYTES (NA/K/CL), SERUM

Table with 4 columns: Test Name, Results, Biological Reference Interval, Units. Rows for Sodium, Potassium, Chloride.

PHYSICAL EXAMINATION, URINE

Table with 4 columns: Test Name, Results, Biological Reference Interval, Units. Rows for Color, Appearance, Specific Gravity.

Comments

NOTE :MICROSCOPIC EXAMINATION OF URINE IS PERFORMED ON CENTRIFUGED URINARY SEDIMENT. IN NORMAL URINE SAMPLES CAST AND CRYSTALS ARE NOT DETECTED.

CHEMICAL EXAMINATION, URINE

Table with 4 columns: Test Name, Results, Biological Reference Interval, Units. Rows for PH, Protein, Glucose, Ketones, Blood, Bilirubin, Urobilinogen, Nitrite.

MICROSCOPIC EXAMINATION, URINE

Table with 4 columns: Test Name, Results, Biological Reference Interval, Units. Rows for Pus Cell, Epithelial Cells, Erythrocytes, Casts, Crystals, Bacteria.

THYROID PANEL, SERUM

Table with 4 columns: Test Name, Results, Biological Reference Interval, Units. Rows for T3, T4.



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Table with 4 columns: Test Report Status, Results, Biological Reference Interval, Units. Row 1: Final, 5.070, High 0.27 - 4.2, μIU/mL

TSH 3RD GENERATION

5.070

High 0.27 - 4.2

μIU/mL

METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY

STOOL: OVA & PARASITE

Table with 4 columns: Test Name, Result, Reference Interval, Units. Rows include COLOUR (BROWN), CONSISTENCY (SEMI FORMED), ODOUR (FOUL), MUCUS (ABSENT), etc.

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP A

METHOD : HEMAGGLUTINATION REACTION ON SOLID PHASE

RH TYPE RH+

METHOD : HEMAGGLUTINATION REACTION ON SOLID PHASE

XRAY-CHEST

Table with 2 columns: Observation, Finding. Rows include BOTH THE LUNG FIELDS ARE CLEAR, BOTH THE COSTOPHRENIC AND CARIOPHRENIC ANGELS ARE CLEAR, etc.

IMPRESSION NO ABNORMALITY DETECTED

TMT OR ECHO

TMT OR ECHO REPORT ENCLOSED

ECG

ECG WITHIN NORMAL LIMITS

MEDICAL HISTORY



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RELEVANT PRESENT HISTORY	NOT SIGNIFICANT			
RELEVANT PAST HISTORY	NOT SIGNIFICANT			
RELEVANT PERSONAL HISTORY	MARRIED, 3 CHILDRENS. NON VEGETERIAN			
RELEVANT FAMILY HISTORY	FATHER- ASTHMA			
OCCUPATIONAL HISTORY	B.SC			
HISTORY OF MEDICATIONS	NOT SIGNIFICANT			

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS	1.67		mts
WEIGHT IN KGS.	66		Kgs
BMI	24		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	84 MIN/REGULAR, ALL PERIPHERAL PULSES WELL FELT		
RESPIRATORY RATE	NORMAL		

CARDIOVASCULAR SYSTEM

BP	120/84 MM HG (SITTING)		mm/Hg
PERICARDIUM	NORMAL		
APEX BEAT	NORMAL		
HEART SOUNDS	S1, S2 HEARD NORMALLY		





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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
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	6/16
DISTANT VISION LEFT EYE WITHOUT GLASSES	6/36
DISTANT VISION RIGHT EYE WITH GLASSES	6/6
DISTANT VISION LEFT EYE WITH GLASSES	6/6
BASIC ENT EXAMINATION	
EXTERNAL EAR CANAL	NORMAL



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Table with 2 columns: Test Name, Results. Rows include TYMPANIC MEMBRANE, NOSE, SINUSES, THROAT, TONSILS.

SUMMARY

Table with 2 columns: Test Name, Results. Rows include RELEVANT HISTORY, RELEVANT GP EXAMINATION FINDINGS, RELEVANT NON PATHOLOGY DIAGNOSTICS, REMARKS / RECOMMENDATIONS.

FITNESS STATUS

FITNESS STATUS FIT (AS PER REQUESTED PANEL OF TESTS)

Comments

OUR PANEL OF DOCTORS.
GENERAL PHYSICIAN - DR. MUKUL GOSWAMI
CONSULTANT RADIOLOGIST - DR. D.R. CHUGH
CONSULTANT CARDIOLOGIST : DR. SANDEEP KUMAR

THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR.
THIS IS AN INVIOABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE.
HOWEVER, ALL EXAMINATION AND INVESTIGATIONS HAVE BEEN
CONDUCTED BY OUR PANEL OF DOCTORS

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.
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.
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.
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.

Reference :
1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition





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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"

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 glycosylated 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 glycosylated 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 glycosylated 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.
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, 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.
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.

Non HDL Cholesterol - Adult treatment panel ATP III suggested the addition of Non-HDL Cholesterol as an indicator of all atherogenic lipoproteins (mainly LDL and VLDL). NICE guidelines recommend Non-HDL Cholesterol measurement before initiating lipid lowering therapy. It has also been shown to be a better marker of risk in both primary and secondary prevention studies.

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



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CLIENT CODE : C000138381

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
SRL Wellness Centre, SCO. 13, Sector 16 Market, Faridabad
FARIDABAD, 121001
Haryana, INDIA
Tel : 9111591115, Fax :
CIN - U74899PB1995PLC045956

PATIENT NAME : LALIT KISHORE

PATIENT ID : LALIM12068371

ACCESSION NO : 0071VE000917 AGE : 38 Years SEX : Male

DRAWN : RECEIVED : 28/05/2022 14:39 REPORTED : 30/05/2022 12:09

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

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

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.

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



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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 (hyperchloremic 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.

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 Pregnancy, TOTAL T4 (µg/dL), TSH3G (µIU/mL), TOTAL T3 (ng/dL). Rows for 1st, 2nd, and 3rd Trimester.

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

Table with 2 columns: T3 (ng/dL), T4 (µg/dL). Rows for New Born (75 - 260) and 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

STOOL: OVA & PARASITE-

Acute infective diarrhoea and gastroenteritis (diarrhoea with vomiting) are major causes of ill health and premature death in developing countries. Loss of water and electrolytes from the body can lead to severe dehydration which if untreated, can be rapidly fatal in young children, especially that are malnourished, hypoglycaemic, and generally in poor health.

Laboratory diagnosis of parasitic infection is mainly based on microscopic examination and the gross examination of the stool specimen. Depending on the nature of the parasite, the microscopic observations include the identification of cysts, ova, trophozoites, larvae or portions of adult structure. The two classes of parasites that cause human infection are the Protozoa and Helminths. The protozoan infections include amoebiasis mainly caused by Entamoeba histolytica and giardiasis caused by Giardia lamblia. The common helminthic parasites are Trichuris trichiura, Ascaris lumbricoides, Strongyloides stercoralis, Taenia sp. 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

HISTORY-*****
THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVOLABLE 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.



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MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ULTRASOUND ABDOMEN
ULTRASOUND ABDOMEN
REPORT ENCLOSED

****End Of Report****

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

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