



Patient Ref. No. 6500000550189

CLIENT CODE : C000138379

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
PLOT No. 88, ROAD No. 15,MIDC ESTATE,ANDHERI (EAST)
MUMBAI, 400093
MAHARASHTRA, INDIA
Tel : 09152729959/91111591115,
CIN - U74899PB1995PLC045956

PATIENT NAME : ARCHANA TIWARI

PATIENT ID : ARCHF25067065

ACCESSION NO : 0065VL000915 AGE : 52 Years SEX : Female

ABHA NO :

DRAWN : RECEIVED : 10/12/2022 08:08:08

REPORTED : 12/12/2022 14:19:23

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status Preliminary Results Biological Reference Interval Units

MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

BLOOD COUNTS,EDTA WHOLE BLOOD

Table with 4 columns: Test Name, Result, Reference Interval, Units. Rows include Hemoglobin (13.6), RBC Count (4.90), WBC Count (8.90), Platelet Count (235).

RBC AND PLATELET INDICES

Table with 4 columns: Test Name, Result, Reference Interval, Units. Rows include Hematocrit (42.2), Mean Corpuscular Volume (86.2), Mean Corpuscular Hemoglobin (27.8), etc.

WBC DIFFERENTIAL COUNT

Table with 4 columns: Test Name, Result, Reference Interval, Units. Rows include Neutrophils (49), Lymphocytes (42), Monocytes (7), Eosinophils (2), Basophils (0).



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Table with 5 columns: Test Report Status, Preliminary, Results, Biological Reference Interval, Units. Rows include: ABSOLUTE NEUTROPHIL COUNT (4.36), ABSOLUTE LYMPHOCYTE COUNT (3.74), ABSOLUTE MONOCYTE COUNT (0.62), ABSOLUTE EOSINOPHIL COUNT (0.18), ABSOLUTE BASOPHIL COUNT (0.00), NEUTROPHIL LYMPHOCYTE RATIO (NLR) (1.1), ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD (23), GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD (9.3), ESTIMATED AVERAGE GLUCOSE(EAG) (220.2), GLUCOSE FASTING, FLUORIDE PLASMA (138), GLUCOSE, POST-PRANDIAL, PLASMA.



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PPBS(POST PRANDIAL BLOOD SUGAR) 218 High Normal <140 mg/dL
Impaired glucose tolerance:140 to 199
Diabetes mellitus : > = 200
(on more than 1 occassion)
ADA guideline 2021

METHOD : SPECTROPHOTOMETRY HEXOKINASE

LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL 216 High Desirable : < 200 mg/dL
Borderline : 200 - 239
High : > / = 240

METHOD : SPECTROPHOTOMETRY, ENZYMATIC COLORIMETRIC - CHOLETSEROL OXIDASE, ESTERASE, PEROXIDASE

TRIGLYCERIDES 127 Normal: < 150 mg/dL
Borderline high: 150 - 199
High: 200 - 499
Very High: >/= 500

METHOD : SPECTROPHOTOMETRY, ENZYMATIC ENDPOINT WITH GLYCEROL BLANK

HDL CHOLESTEROL 58 At Risk: < 40 mg/dL
Desirable: > or = 60

METHOD : SPECTROPHOTOMETRY, HOMOGENEOUS DIRECT ENZYMATIC COLORIMETRIC

CHOLESTEROL LDL 133 High Optimal : < 100 mg/dL
Near optimal/above optimal : 100-129
Borderline high : 130-159
High : 160-189
Very high : = 190

METHOD : CALCULATED PARAMETER

NON HDL CHOLESTEROL 158 High Desirable : < 130 mg/dL
Above Desirable : 130 -159
Borderline High : 160 - 189
High : 190 - 219
Very high : > / = 220

METHOD : CALCULATED PARAMETER

CHOL/HDL RATIO 3.7 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 2.2 Desirable/Low Risk : 0.5 - 3.0
Borderline/Moderate Risk : 3.1 - 6.0
High Risk : > 6.0

METHOD : CALCULATED PARAMETER

VERY LOW DENSITY LIPOPROTEIN 25.0 < or = 30.0 mg/dL



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METHOD : CALCULATED PARAMETER

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL 0.45 Upto 1.2 mg/dL

METHOD : SPECTROPHOTOMETRY, COLORIMETRIC -DIAZO METHOD

BILIRUBIN, DIRECT 0.22 High 0.0 - 0.2 mg/dL

METHOD : SPECTROPHOTOMETRY, JENDRASSIK & GROFF - DIAZOTIZATION

BILIRUBIN, INDIRECT 0.23 0.1 - 1.0 mg/dL

METHOD : CALCULATED PARAMETER

TOTAL PROTEIN 7.2 6.0 - 8.0 g/dL

METHOD : SPECTROPHOTOMETRY, COLORIMETRIC -BIURET, REAGENT BLANK, SERUM BLANK

ALBUMIN 4.5 3.97 - 4.94 g/dL

METHOD : SPECTROPHOTOMETRY, BROMOCRESOL GREEN(BCG) - DYE BINDING

GLOBULIN 2.7 2.0 - 3.5 g/dL

METHOD : CALCULATED PARAMETER

ALBUMIN/GLOBULIN RATIO 1.7 1.0 - 2.1 RATIO

METHOD : CALCULATED PARAMETER

ASPARTATE AMINOTRANSFERASE (AST/SGOT) 31 Upto 32 U/L

METHOD : SPECTROPHOTOMETRY, WITHOUT PYRIDOXAL PHOSPHATE ACTIVATION( P5P) - IFCC

ALANINE AMINOTRANSFERASE (ALT/SGPT) 33 Upto 33 U/L

METHOD : SPECTROPHOTOMETRY, WITHOUT PYRIDOXAL PHOSPHATE ACTIVATION( P5P) - IFCC

ALKALINE PHOSPHATASE 82 35 - 104 U/L

METHOD : SPECTROPHOTOMETRY, PNPP, AMP BUFFER - IFCC

GAMMA GLUTAMYL TRANSFERASE (GGT) 36 < 40 U/L

METHOD : SPECTROPHOTOMETRY, ENZYMATIC COLORIMETRIC - G-GLUTAMYL-CARBOXY-NITROANILIDE - IFCC

LACTATE DEHYDROGENASE 138 < 223 U/L

METHOD : SPECTROPHOTOMETRY, LACTATE TO PYRUVATE - UV-IFCC

BLOOD UREA NITROGEN (BUN), SERUM

BLOOD UREA NITROGEN 6 6 - 20 mg/dL

METHOD : SPECTROPHOTOMETRY, UREASE -COLORIMETRIC

CREATININE, SERUM

CREATININE 0.58 Low 0.60 - 1.10 mg/dL

METHOD : SPECTROPHOTOMETRY, JAFFE'S ALKALINE PICRATE KINETIC - RATE BLANKED - IFCC-IDMS STANDARIZED

BUN/CREAT RATIO

BUN/CREAT RATIO 10.34 8 - 15

METHOD : CALCULATED PARAMETER

URIC ACID, SERUM



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URIC ACID 3.9 2.4 - 5.7 mg/dL
METHOD : SPECTROPHOTOMETRY, ENZYMATIC COLORIMETRIC- URICASE

TOTAL PROTEIN, SERUM

TOTAL PROTEIN 7.2 6.0 - 8.0 g/dL
METHOD : SPECTROPHOTOMETRY, COLORIMETRIC -BIURET, REAGENT BLANK, SERUM BLANK

ALBUMIN, SERUM

ALBUMIN 4.5 3.97 - 4.94 g/dL
METHOD : SPECTROPHOTOMETRY, BROMOCRESOL GREEN(BCG) - DYE BINDING

GLOBULIN

GLOBULIN 2.7 2.0 - 3.5 g/dL
METHOD : CALCULATED PARAMETER

ELECTROLYTES (NA/K/CL), SERUM

SODIUM, SERUM 142 136 - 145 mmol/L
METHOD : ISE INDIRECT

POTASSIUM, SERUM 4.50 3.5 - 5.1 mmol/L
METHOD : ISE INDIRECT

CHLORIDE, SERUM 106 98 - 106 mmol/L
METHOD : ISE INDIRECT

Interpretation(s)

PHYSICAL EXAMINATION, URINE

COLOR PALE YELLOW
APPEARANCE CLEAR

CHEMICAL EXAMINATION, URINE

PH 6.0 5.00 - 7.50
SPECIFIC GRAVITY 1.005 Low 1.010 - 1.030
PROTEIN NOT DETECTED NOT DETECTED
GLUCOSE DETECTED (+++) NOT DETECTED
KETONES NOT DETECTED NOT DETECTED
BLOOD NOT DETECTED NOT DETECTED
BILIRUBIN NOT DETECTED NOT DETECTED
UROBILINOGEN NOT DETECTED NOT DETECTED
NITRITE NOT DETECTED NOT DETECTED
LEUKOCYTE ESTERASE NOT DETECTED NOT DETECTED



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MICROSCOPIC EXAMINATION, URINE

Table with 4 columns: Test Name, Result, Reference Interval, Units. Rows include RED BLOOD CELLS, PUS CELL (WBC'S), EPITHELIAL CELLS, CASTS, CRYSTALS, BACTERIA, YEAST.

METHOD : URINE ROUTINE & MICROSCOPY EXAMINATION BY INTEGRATED AUTOMATED SYSTEM

Interpretation(s)

THYROID PANEL, SERUM

Table with 4 columns: Test Name, Result, Reference Interval, Units. Row for T3 with result 84.3 and reference ranges for Non-Pregnant and Pregnant Women.

METHOD : COMPETITIVE ELECTROCHEMILUMINESCENCE IMMUNOASSAY

Table with 4 columns: Test Name, Result, Reference Interval, Units. Row for T4 with result 9.97 and reference ranges for Non-Pregnant and Pregnant Women.

METHOD : COMPETITIVE ELECTROCHEMILUMINESCENCE IMMUNOASSAY

Table with 4 columns: Test Name, Result, Reference Interval, Units. Row for TSH (ULTRASENSITIVE) with result 2.150 and reference ranges for Non Pregnant and Pregnant Women.

METHOD : SANDWICH ELECTROCHEMILUMINESCENCE IMMUNOASSAY

Interpretation(s)

PAPANICOLAOU SMEAR RESULT PENDING

LETTER RESULT PENDING

MICROSCOPIC EXAMINATION,STOOL

REMARK SAMPLE NOT RECEIVED



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ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP B
RH TYPE POSITIVE

XRAY-CHEST

IMPRESSION NO ABNORMALITY DETECTED

TMT OR ECHO

TMT OR ECHO NORMAL

ECG

ECG WITHIN NORMAL LIMITS

MEDICAL HISTORY

RELEVANT PRESENT HISTORY NOT SIGNIFICANT
RELEVANT PAST HISTORY LEFT ANKLE FRACTURE 2014
DIABETES 2019
HYPOTHYROIDISM 20 YEARS
RELEVANT PERSONAL HISTORY NOT SIGNIFICANT
RELEVANT FAMILY HISTORY DIABETES
HISTORY OF MEDICATIONS NOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.55 mts
WEIGHT IN KGS. 66 Kgs
BMI 27
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



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NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER
THYROID GLAND NOT ENLARGED
CAROTID PULSATION NORMAL
TEMPERATURE NORMAL
PULSE 80/MIN, REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT
RESPIRATORY RATE NORMAL

CARDIOVASCULAR SYSTEM

BP 100/70 MM HG mm/Hg (SUPINE)
PERICARDIUM NORMAL
APEX BEAT NORMAL
HEART SOUNDS S1, S2 HEARD NORMALLY
MURMURS ABSENT

RESPIRATORY SYSTEM

SIZE AND SHAPE OF CHEST NORMAL
MOVEMENTS OF CHEST SYMMETRICAL
BREATH SOUNDS INTENSITY NORMAL
BREATH SOUNDS QUALITY VESICULAR (NORMAL)
ADDED SOUNDS ABSENT

PER ABDOMEN

APPEARANCE NORMAL
VENOUS PROMINENCE ABSENT
LIVER NOT PALPABLE
SPLEEN NOT PALPABLE
HERNIA ABSENT

CENTRAL NERVOUS SYSTEM

HIGHER FUNCTIONS NORMAL
CRANIAL NERVES NORMAL
CEREBELLAR FUNCTIONS NORMAL
SENSORY SYSTEM NORMAL
MOTOR SYSTEM NORMAL
REFLEXES NORMAL

MUSCULOSKELETAL SYSTEM



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SPINE NORMAL

JOINTS NORMAL

BASIC EYE EXAMINATION

CONJUNCTIVA NORMAL

EYELIDS NORMAL

EYE MOVEMENTS NORMAL

CORNEA NORMAL

BASIC ENT EXAMINATION

EXTERNAL EAR CANAL NORMAL

TYMPANIC MEMBRANE NORMAL

NOSE NO ABNORMALITY DETECTED

SINUSES CLEAR

THROAT NO ABNORMALITY DETECTED

TONSILS ENLARGED

SUMMARY

RELEVANT HISTORY NOT SIGNIFICANT

RELEVANT GP EXAMINATION FINDINGS OVER WEIGHT

RELEVANT LAB INVESTIGATIONS RAISED ESR (23)
RAISED RBC (4.90)
RAISED LYMPHOCYSTE (42)
RAISED FASTING BLOOD SUGAR (138)
RAISED POST PRANDIAL BLOOD SUGAR (218)
URINE GLUCOSE DETECTED (+++)
RAISED BILIRUBIN DIRECT (0.22)
LOW CREATININE (0.58)
RAISED TOTAL CHOLESTEROL (216)
RAISED NON HDL CHOLESTEROL (158)
RAISED LDL CHOLESTEROL (133)
RAISED HBA1C (9.3)
RAISED EAG (220.2)

RELEVANT NON PATHOLOGY DIAGNOSTICS MILD FATTY LIVER

REMARKS / RECOMMENDATIONS REGULAR PHYSICAL EXERCISES
LOW CALORIC DIET
REDUCE FATTY AND PROCESSED FOOD IN DIET
REDUCE SUGARS, SWEETS IN DIET



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MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

MILD FATTY LIVER.

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-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, Vasculitides, 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: Polycythemia vera, Sickle cell anemia

LIMITATIONS

False elevated ESR : Increased fibrinogen, Drugs(Vitamin A, Dextran etc), Hypercholesterolemia

False Decreased : Poikilocytosis,(SickleCells,spherocytes),Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine, salicylates)

REFERENCE :

1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition;2. Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin;3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis,10th edition.

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-Used For:

1.Evaluating the long-term control of blood glucose concentrations in diabetic patients.

2.Diagnosing diabetes.

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 :

I.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.

II.Vitamin C & E are reported to falsely lower test results.(possibly by inhibiting glycation of hemoglobin.

III.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.



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CLIENT CODE : C000138379

CLIENT'S NAME AND ADDRESS :
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CIN - U74899PB1995PLC045956

PATIENT NAME : ARCHANA TIWARI PATIENT ID : ARCHF25067065

ACCESSION NO : 0065VL000915 AGE : 52 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 10/12/2022 08:08:08 REPORTED : 12/12/2022 14:19:23

REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Table with 4 columns: Test Report Status (Preliminary), Results, Units

IV.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 urine.

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.
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-
LIVER FUNCTION PROFILE

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis. Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors & Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.
AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.

ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget's disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilson's disease.GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity.Serum GGT has been widely used as an index of liver dysfunction.Elevated serum GGT activity can be found in diseases of the liver,biliary system and pancreas.Conditions that increase serum GGT are obstructive liver disease,high alcohol consumption and use of enzyme-inducing drugs etc.Serum total protein,also known as total protein,is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.Higher-than-normal levels may be due to:Chronic inflammation or infection,including HIV and hepatitis B or C,Multiple myeloma,Waldenstrom's disease.Lower-than-normal levels may be due to: Agammaglobulinemia,Bleeding (hemorrhage),Burns,Glomerulonephritis,Liver disease, Malabsorption,Malnutrition,Nephrotic syndrome,Protein-losing enteropathy etc.Human serum albumin is the most abundant protein in human blood plasma.It is produced in the liver.Albumin constitutes about half of the blood serum protein.Low blood albumin levels (hypoalbuminemia) can be caused by:Liver disease like cirrhosis of the liver, nephrotic syndrome,protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc

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
• 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,Multiple Sclerosis

