



Patient Ref. No. 77500001774050

CLIENT CODE : C000138394

CLIENT'S NAME AND ADDRESS :
ACROFEMI HEALTHCARE LTD (MEDIWHEEL)
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MAHARASHTRA, INDIA
Tel : 9111591115, Fax : CIN - U74899PB1995PLC045956
Email : customercare.thane@srl.in

PATIENT NAME : ANITA ANIL SALUNKHE PATIENT ID : ANITF240579181A

ACCESSION NO : 0181VJ001043 AGE : 43 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 22/10/2022 09:01:19 REPORTED : 27/10/2022 14:27:18

REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Table with 5 columns: Test Report Status, Final, 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, Red Blood Cell Count, White Blood Cell Count, Platelet Count.

RBC AND PLATELET INDICES

Table with 4 columns: Test Name, Result, Reference Interval, Units. Rows include Hematocrit, Mean Corpuscular Vol, Mean Corpuscular Hgb, Mean Corpuscular Hemoglobin Concentration, Mentzer Index, Red Cell Distribution Width, Mean Platelet Volume.

WBC DIFFERENTIAL COUNT - NLR

Table with 4 columns: Test Name, Result, Reference Interval, Units. Rows include Neutrophils, Absolute Neutrophil Count, Lymphocytes, Absolute Lymphocyte Count, Neutrophil Lymphocyte Ratio (NLR), Eosinophils.



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Flow cytometry results table including Absolute Eosinophil Count, Monocytes, and Absolute Monocyte Count.

MORPHOLOGY

Morphology results table including RBC, WBC, and Platelets.

ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD

ESR result table showing E.S.R value of 31 and reference range < 20.

GLYCOSYLATED HEMOGLOBIN (HBA1C), EDTA WHOLE BLOOD

HbA1c result table showing HBA1C value of 5.0 and detailed reference ranges.

Estimated Average Glucose (EAG) result table showing EAG value of 96.8.

GLUCOSE FASTING, FLUORIDE PLASMA

Fasting Blood Sugar (FBS) result table showing FBS value of 88.

GLUCOSE, POST-PRANDIAL, PLASMA

Post-Prandial Blood Sugar (PPBS) result table showing PPBS value of 84.

CORONARY RISK PROFILE, SERUM



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Table with 5 columns: Test Report Status, Final, Results, Biological Reference Interval, Units. Rows include Cholesterol, Triglycerides, HDL Cholesterol, Cholesterol LDL, Non HDL Cholesterol, Chol/HDL Ratio, LDL/HDL Ratio, Very Low Density Lipoprotein, and Liver Function Profile (Bilirubin).





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TOTAL PROTEIN		6.9	6.0 - 8.0	g/dL
METHOD : COLORIMETRIC				
ALBUMIN		3.9	Low 3.97 - 4.94	g/dL
METHOD : COLORIMETRIC				
GLOBULIN		3.0	2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO		1.3	1.0 - 2.1	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)		15	< OR = 35	U/L
METHOD : UV ABSORBANCE				
ALANINE AMINOTRANSFERASE (ALT/SGPT)		12	< OR = 35	U/L
METHOD : UV ABSORBANCE				
ALKALINE PHOSPHATASE		73	35 - 104	U/L
METHOD : COLORIMETRIC				
GAMMA GLUTAMYL TRANSFERASE (GGT)		10	0 - 40	U/L
METHOD : ENZYMATIC, COLORIMETRIC				
LACTATE DEHYDROGENASE		160	125 - 220	U/L
METHOD : UV ABSORBANCE				
BLOOD UREA NITROGEN (BUN), SERUM				
BLOOD UREA NITROGEN		7	6 - 20	mg/dL
METHOD : ENZYMATIC ASSAY				
CREATININE, SERUM				
CREATININE		0.56	0.5 - 0.9	mg/dL
METHOD : COLORIMETRIC				
BUN/CREAT RATIO				
BUN/CREAT RATIO		12.50	8.0 - 15.0	
URIC ACID, SERUM				
URIC ACID		4.3	2.4 - 5.7	mg/dL
METHOD : ENZYMATIC COLORIMETRIC ASSAY				
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN		6.9	6.0 - 8.0	g/dL
METHOD : COLORIMETRIC				
ALBUMIN, SERUM				
ALBUMIN		3.9	Low 3.97 - 4.94	g/dL
METHOD : COLORIMETRIC				
GLOBULIN				
GLOBULIN		3.0	2.0 - 3.5	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

COLOR PALE YELLOW

METHOD : VISUAL INSPECTION

APPEARANCE CLEAR

METHOD : VISUAL INSPECTION

SPECIFIC GRAVITY 1.005 1.003 - 1.035

METHOD : IONIC CONCENTRATION METHOD

CHEMICAL EXAMINATION, URINE

PH 6.0 4.7 - 7.5

METHOD : DOUBLE INDICATOR PRINCIPLE

PROTEIN NOT DETECTED NOT DETECTED

METHOD : TETRA BROMOPHENOL BLUE/SULFOSALICYLIC ACID

GLUCOSE NOT DETECTED NOT DETECTED

METHOD : GLUCOSE OXIDASE PEROXIDASE

KETONES NOT DETECTED NOT DETECTED

METHOD : NITROPRUSSIDE REACTION

BLOOD NOT DETECTED NOT DETECTED

METHOD : PEROXIDASE

UROBILINOGEN NORMAL NORMAL

METHOD : MODIFIED EHRLICH REACTION

NITRITE NOT DETECTED NOT DETECTED

METHOD : 1,2,3,4-TETRAHYDROBENZO(H)QUINOLIN-3-OL

LEUKOCYTE ESTERASE NOT DETECTED NOT DETECTED

MICROSCOPIC EXAMINATION, URINE

PUS CELL (WBC'S) 2-3 0-5 /HPF

METHOD : MICROSCOPIC EXAMINATION

EPITHELIAL CELLS 1-2 0-5 /HPF

METHOD : MICROSCOPIC EXAMINATION

ERYTHROCYTES (RBC'S) NOT DETECTED NOT DETECTED /HPF

METHOD : MICROSCOPIC EXAMINATION

CASTS NOT DETECTED



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Table rows for Microscopic Examination: CRYSTALS, BACTERIA, YEAST

Table rows for Thyroid Panel, Serum: T3, T4, TSH 3RD GENERATION

Table rows for Papanicolaou Smear: TEST METHOD, SPECIMEN TYPE, REPORTING SYSTEM, MICROSCOPY, INTERPRETATION / RESULT

Comments
PLEASE NOTE PAPANICOLAOU SMEAR STUDY IS A SCREENING PROCEDURE FOR CERVICAL
CANCER WITH INHERENT FALSE NEGATIVE RESULTS HENCE SHOULD BE INTERPRETED WITH CAUTION.
NO CYTOLOGICAL EVIDENCE OF HPV INFECTION IN THE SMEARS STUDIED.
SMEARS WILL BE PRESERVED FOR 5 YEARS ONLY.

Table rows for ABO Group & Rh Type, EDTA Whole Blood: ABO GROUP, TYPE O



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RH TYPE POSITIVE
METHOD : GEL COLUMN AGGLUTINATION METHOD.

XRAY-CHEST

IMPRESSION NO ABNORMALITY DETECTED

TMT OR ECHO

TMT OR ECHO NEGATIVE

ECG

ECG WITHIN NORMAL LIMITS

MAMOGRAPHY (BOTH BREASTS)

MAMOGRAPHY BOTH BREASTS SONOMAMMOGRAPHY :- SIMPLE CYST IN RIGHT BREAST.

MEDICAL HISTORY

RELEVANT PRESENT HISTORY NOT SIGNIFICANT
RELEVANT PAST HISTORY NOT SIGNIFICANT
RELEVANT PERSONAL HISTORY MARRIED / 2 CHILD / MIXED DIET / CURD- ALLERGIES / NO SMOKING / NO ALCOHOL.
RELEVANT FAMILY HISTORY FATHER:-DIABETES.
HISTORY OF MEDICATIONS NOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.60 mts
WEIGHT IN KGS. 78 Kgs
BMI 30
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 OBESSE
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
BREAST (FOR FEMALES) NORMAL
TEMPERATURE NORMAL
PULSE 88/MIN.REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT
RESPIRATORY RATE NORMAL

CARDIOVASCULAR SYSTEM

BP 130/80 MM HG mm/Hg
PERICARDIUM NORMAL
APEX BEAT NORMAL
HEART SOUNDS NORMAL
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		
DISTANT VISION RIGHT EYE WITHOUT GLASSES		WITHIN NORMAL LIMIT		
DISTANT VISION LEFT EYE WITHOUT GLASSES		REDUCED VISUAL ACUITY 6/9		
DISTANT VISION RIGHT EYE WITH GLASSES		WITH GLASSES NORMAL		
DISTANT VISION LEFT EYE WITH GLASSES		WITH GLASSES NORMAL		
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	OBESE ;- BMI 30
REMARKS / RECOMMENDATIONS	ADVICE:- 1)WEIGHT LOSS:- LOW CALORIE, HIGH FIBRE DIET, REGULAR EXERCISE. 2)ANNUAL SONOMAMMOGRPAHY TO MONITOR BREAST CYST. 3)GYNAEC CONSULT FOR UTERINE FIBROIDS.



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MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

GRADE I FATTY LIVER

BULKY UTERUS WITH UTERINE FIBROIDS.

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.

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.

(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.

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 patient's metabolic control has remained continuously within the target range.

1. eAG (Estimated average glucose) converts percentage HbA1c to mg/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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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 platform (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 so that 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; sulfonyleureas, tolbutamide, and other oral hypoglycemic agents.

NOTE:
Hypoglycemia is defined as a glucose of < 50 mg/dL in men and < 40 mg/dL in women.
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 Glycosuria, 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 Glycosuria, 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 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 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 are 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



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CLIENT CODE : C000138394

CLIENT'S NAME AND ADDRESS :
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PATIENT NAME : ANITA ANIL SALUNKHE PATIENT ID : ANITF240579181A

ACCESSION NO : 0181VJ001043 AGE : 43 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 22/10/2022 09:01:19 REPORTED : 27/10/2022 14:27:18

REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Test Report Status Final Results Biological Reference Interval Units

- 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 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,

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.



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Patient Ref. No. 77500001774050

CLIENT CODE : C000138394

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

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. Kliegman 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

