

PATIENT NAME: MD SAKIR REG NO 178 REF. DOCTOR : DR. DCDC ACCESSION NO: 0707XG000820 AGE/SEX :50 Years Male PATIENT ID : MDSAM111073707 DRAWN :14/07/2024 10:03:08 CLIENT PATIENT ID: RECEIVED: 14/07/2024 10:05:16 ABHA NO REPORTED :14/07/2024 17:02:36 **Test Report Status Final** Results Biological Reference Interval Units HAEMATOLOGY - CBC CBC WITH ESR (CBC+PS+ESR) EDTA WHOLE BLOOD/SMEAR **BLOOD COUNTS, EDTA WHOLE BLOOD** HEMOGLOBIN (HB) 5.3 C.Low 13.0 - 17.0 g/dL RED BLOOD CELL (RBC) COUNT 2.73 Low 4.5 - 5.5mil/µL WHITE BLOOD CELL (WBC) COUNT 11.80 High 4.0 - 10.0 thou/µL PLATELET COUNT 259 150 - 410 thou/µL **RBC AND PLATELET INDICES** HEMATOCRIT (PCV) 16.9 Low 40 - 50 9/0 MEAN CORPUSCULAR VOLUME (MCV) 62.0 Low 83 - 101 fL MEAN CORPUSCULAR HEMOGLOBIN (MCH) 19.5 Low 27.0 - 32.0 pg MEAN CORPUSCULAR HEMOGLOBIN 31.5 31.5 - 34.5 g/dL CONCENTRATION (MCHC) RED CELL DISTRIBUTION WIDTH (RDW) 16.6 High 11.6 - 14.0 % MENTZER INDEX 22.7 MEAN PLATELET VOLUME (MPV) 9.6 6.8 - 10.9fL WBC DIFFERENTIAL COUNT **NEUTROPHILS** 75 40 - 80 % LYMPHOCYTES 16 Low 20 - 40% MONOCYTES 06 2 - 10 % **EOSINOPHILS** 03 1 - 6 % BASOPHILS 00 < 1 - 2 % ABSOLUTE NEUTROPHIL COUNT 8.85 High 2.0 - 7.0thou/µL ABSOLUTE LYMPHOCYTE COUNT 1.89 1.0 - 3.0thou/µL ABSOLUTE MONOCYTE COUNT 0.71 0.2 - 1.0thou/µL ABSOLUTE EOSINOPHIL COUNT 0.35 0.02 - 0.50thou/µL ABSOLUTE BASOPHIL COUNT 0 0.0 - 0.1thou/µL NEUTROPHIL LYMPHOCYTE RATIO (NLR) 4.7 Page 1 Of 10





PERFORMED AT:

Dr.Sanjeew Kumar Consultant - Pathologist &

**Laboratory Head** 

**Agilus Pathlabs Reach Limited** Sadar Hospital, Sector-1, Bokoro Steel City, Bokoro, 827001

Jharkhand, India Tel: 7260813496





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AGE/SEX

HAEMATOLOGY

CBC WITH ESR (CBC+PS+ESR) EDTA WHOLE BLOOD/SMEAR

ERYTHROCYTE SEDIMENTATION RATE (ESR), EDTA BLOOD

E.S.R

146 High

0 - 14

mm at 1 hr

ERYTHROCYTE SEDIMENTATION RATE (ESR), EDTA 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, Vasculities, 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: Polycythermia vera, Sickle cell anemia

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)

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.

Dr.Sanjeew Kumar Consultant - Pathologist & **Laboratory Head** 

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**BIOCHEMISTRY** 

KIDNEY FUNCTION TEST

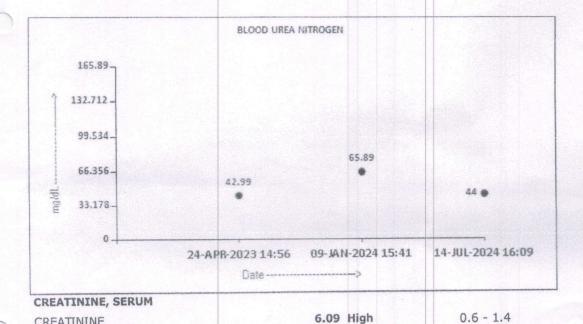
**BLOOD UREA NITROGEN (BUN), SERUM** 

**BLOOD UREA NITROGEN** 

44 High

6 - 22

mg/dL



CREATININE

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mg/dL

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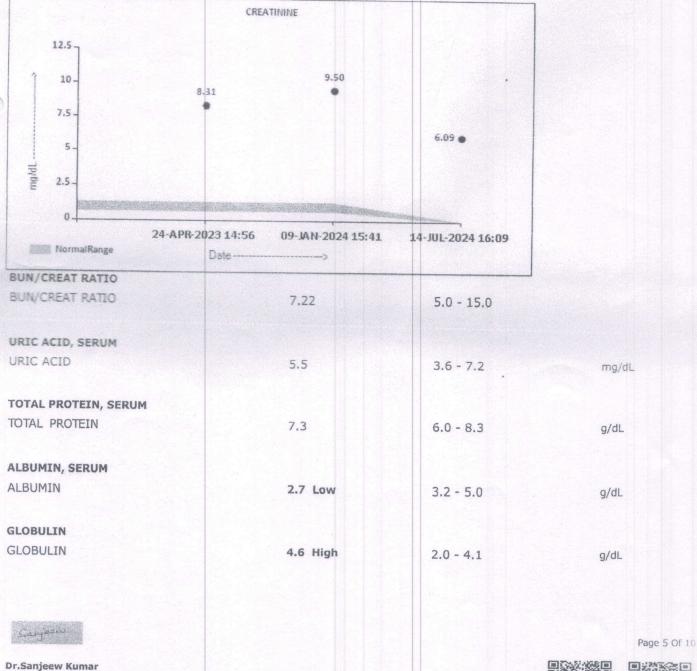
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#### Interpretation(s)

Sodium	Potassium	Chloride
Decreased in:CCF, cirrhosis, vomiting, diarrhea, excessive sweating, salt-losing nephropathy, adrenal insufficiency, nephrotic syndrome, water intoxication, SIADH. Drugs: thiazides, diuretics, ACE inhibitors, chlorpropamide, carbamazepine, antidepressants (SSRI), antipsychotics.	Decreased in: Low potassium intake, prolonged vomiting or diarrhea, RTA types I and II, hyperaldosteronism, Cushing's syndrome, osmotic diuresis (e.g., hyperglycemia), alkalosis, familial periodic paralysis, trauma (transient). Drugs: Adrenergic agents, diuretics.	Decreased in: Vomiting, diarrhea, renal failure combined with salt deprivation, over-treatment with diuretics, chronic respiratory acidosis diabetic ketoacidosis, excessive sweating, SIADH, salt-losing nephropathy, porphyria, expansion of extracellular fluid volume, adrenalinsufficiency, hyperaldosteronism, metabolic alkalosis Drugs: chronic laxative, corticosteroids, diuretics.
Increased in: Dehydration (excessivesweating, severe vomiting or diarrhea), diabetes mellitus, diabetesinsipidus, hyperaldosteronism, inadequate water intake. Drugs: steroids, licorice, oral contraceptives.	Increased in: Massive hemolysis, severe tissue damage, rhabdomyolysis, acidosis, dehydration, renal failure, Addison's disease, RTA type IV, hyperkalemic familial periodic paralysis. Drugs: potassium salts, potassium-sparing diuretics, NSAIDs, beta-blockers, ACE inhibitors, highdose trimethoprim-sulfamethoxazole.	Increased in: Renal failure, nephrotic syndrome, RTA, dehydration, overtreatment with saline, hyperparathyroidism, diabetes insipidus, metabolic acidosis from diarrhea (Loss of HCO3-), respiratory alkalosis, hyperadrenocorticism.  Drugs: acetazolamide, androgens, hydrochlorothiazide, salicylates.
Interferences: Severe lipemia or hyperproteinemi, if sodium analysis involves a dilution step can cause spurious results. The serum sodium falls about 1.6 mEq/L for each 100 mg/dL increase in blood glucose.	Interferences: Hemolysis of sample, delayed separation of serum, prolonged fist clenching during blood drawing, and prolonged tourniquet placement. Very high WBC/PLT counts may cause spurious. Plasma potassium levels are normal.	Interferences: Test is helpful in assessing normal and increased anion gap metabolic acidosis and in distinguishing hypercalcemia due to hyperparathyroidism (high serum chloride) from that due to malignancy (Norma) serum chloride

LIVER FUNCTION PROFILE, SERUM

 TOTAL PROTEIN
 7.3
 6.0 - 8.3
 g/dL

 ALBUMIN
 2.7 Low
 3.2 - 5.0
 g/dL

Sanjean

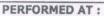
Dr.Sanjeew Kumar Consultant - Pathologist & Laboratory Head



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GLOBULIN	4.6 High	2.0 - 4.1	g/dL
ALBUMIN/GLOBULIN RATIO ASPARTATE AMINOTRANSFERASE (AST/SGOT) ALANINE AMINOTRANSFERASE (ALT/SGPT)	0.6 Low	1.0 - 2.1	RATIO
	20	0 - 45	U/L
	12	0 - 45	U/L
ALKALINE PHOSPHATASE	342 High	41 - 137	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT) LACTATE DEHYDROGENASE	81 High	0 - 50	U/L
	629 High	200 - 450	U/L

Interpretation(s)

BLOOD UREA NTTROGEN (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.

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 Lower than normal level may be due to: Myasthenia Gravis, Muscuophy

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

TOTAL PROTEIN, SERUM-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: 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 clasma. It is produced in the liver. Albumin and characteristic than the liver Albumin and should be abundant protein in human blood clasma. It is produced in the liver. Albumin and abundant protein in human blood plasma. It is produced in the liver. Albumin and abundant protein in human had been abundant protein in human had been abundant protein in human had been abundant protein in human blood plasma. It is produced in the liver. Albumin and planting abundant protein in human had been abundant protein in human h

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.

CALCIUM, SERUM-Common causes of decreased value of calcium (hypocalcemia) are chronic renal failure, hypomagnesemia and hypoalbuminemia.

Hypercalcemia (increased value of calcium) can be caused by increased intestinal absorption (vitamin D intoxication), increased skeletal reabsorption (immobilization), or a combination of mechanisms (primary hyperparathyroidism). Primary hyperparathyroidism and malignancy accounts for 90-95% of all cases of hypercalcemia.

Values of total calcium is affected by serum proteins, particularly albumin thus, latter's value should be taken into account when interpreting serum calcium levels. The following regression equation may be helpful. Corrected total calcium (mg/dl)= total calcium (mg/dl) + 0.8 (4- albumin [g/dl])\*

Corrected total calcium (mg/dl) = total calcium (mg/dl) + 0.8 (4- albumin [g/dl])\*
because regression equations vary among group of patients in different physiological and pathological conditions, mathematical corrections are only approximations. The possible mathematical corrections should be replaced by direct determination of free calcium by ISE. A common and important source of preanalytical error in the measurement of calcium is prolonged torniquet application during sampling. Thus, this along with fist clenching should be avoided before phlebotomy.

LIVER FUNCTION PROFILE, SERUM
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 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 termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin. 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 blie 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, Pagets disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen

Dr. Sanjeew Kumar Consultant - Pathologist & Laboratory Head

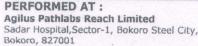
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Jharkhand, India Tel: 7260813496





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**Final** 

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#### **EIA - INFECTIOUS SECTION**

HEPATITIS C ANTIBODIES, SERUM

HEPATITIS C ANTIBODIES

NON REACTIVE

NON REACTIVE

HEPATITIS B SURFACE ANTIGEN, SERUM

HEPATITIS B SURFACE ANTIGEN

NON REACTIVE

NON REACTIVE

Interpretation(s)
HEPATITIS C ANTIBODIES, SERUM-Hepatitis C Virus (HCV) is a blood borne flavivirus. It is one of the most important causes of post-blood transfusion as well as community acquired non-A non-B hepatitis and chronic liver failure. Although the majority of infected individuals may be asymptomatic, HCV infection may develop into chronic hepatitis, cirrhosis and/or increased risk of hepatocellular carcinoma.

Notes & Limitations: HCV antibody is typically not detected until approximately 14 weeks after infection (or 5 weeks after appearance of the first biochemical marker of infection. Infants born to hepatitis C infected mothers may have delayed servoconversion to anti-HCV. Hence a negative result should be evaluated cautiously with respect to clinical findings. It is to be noted that absence of HCV antibodies after 14 weeks of exposure is strong evidence against HCV infection. Presence of HCV antibodies after 14 weeks of exposure is strong evidence against HCV infection. Presence of HCV antibodies after 14 weeks of exposure is strong evidence against HCV infection. Presence of HCV antibodies after 14 weeks of exposure is strong evidence against HCV infection. Presence of HCV antibody result with a supplemental test. A positive receiving intravenous commercial immunoglobulin test falsely positive for HCV antibody. Also, patients with autoinmune liver disease may show a false positive HCV antibody result with a supplemental test. A positive result when followed by a positive supplemental test. A positive result when followed by a positive supplemental test. (i.e. HCPAITITIS B SURFACE ANTIGEN, SERUM-Hepatitis B is caused by infection with HBV, a enveloped DNA agent that is classified as hepadnavirus. This test detects the presence of viral surface antigen to el HBSAg also known as "Australia antigen" in serum sample and is indicative of HBV infection. In typical HBV infection, BASAg will be detected 2-4 weeks before the liver enzyme level & LTD, become abnormal and 3-5 weeks before patient develops ja

\*\*End Of Report\*\*

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

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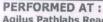
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**Agilus Pathlabs Reach Limited** Sadar Hospital, Sector-1, Bokoro Steel City, Bokoro, 827001

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# नुस्कान

हास्पोदल

## एण्ड रिसर्च सेन्टर

Dr. S. C. Munshi MBBS, DCH, MD (Paeds) Consultant Paediatrician &

Neonatologist Time: 9:30 am to 01:30 pm (Sunday Off)

## Dr. Irfan Ansari

MBBS, MS (Gen. Surgery)
Consultant Laparoscopic &
Cancer Surgeon
Time: 10:30 am to 02:30 pm
(Friday Evening Off)

## Dr. Md. Shahnawaj Anwar

MBBS, MD (Med.)
Consultant Physician
Cardiologist & Diabetologist
Time: 11:00 am to 02:30 pm
07:00 pm to 08:00 pm
(Sunday Evening Off)

## Dr. Manoj Kr. Srivastava

MBBS, AFMC (PUNE) Child Specialist, General Physician & Surgeon Time: 11:30 am to 02:00 pm

#### Muskan SUPERSPECIALITY Centre

 Plot No.: S-3, City Centre, Beside M-Bazar, Sector - IV, Bokaro Steel City (Jharkhand) [Near Samarjit Gas Agency]
 Ph.: 06542-231335, 08877080738

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  - · Upper GI Endoscopy
  - · Variceal Band Ligation.
  - Sclerotherapy
  - Colonoscopy
  - · ERCP.
- # Eye Department:
  - · Phaco Surgery & OCT etc.
  - Ben Franklin Optical Point
- # Neuro Surgery Department:
  - · OPD.

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Age/Sex:

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Report विद्याने का समय

1: 15 PM to 1: 45 PM

Exercise: muskanhoopital@yanoo.co.in



&Research Centre

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