DIAGNOSTIC REPORT

SRL Diagnostics

PATIENT NAME : SAHIL MALHOTRA | **REF. DOCTOR :** SELF

CODE/NAME & ADDRESS : C000138361
ACROFEMI HEALTHCARE LTD (MEDIWHEEL)
F-703, LADO SARAI, MEHRAULISOUTH WEST DELHI
NEW DELHI 110030
8800465156

ACCESSION NO : **0028WC000755**
PATIENT ID : SAHIM11069028
CLIENT PATIENT ID:
ABHA NO :

AGE/SEX : 32 Years Male
DRAWN :
RECEIVED : 25/03/2023 09:01:43
REPORTED : 27/03/2023 12:09:14

Test Report Status **Final**	Results	Biological Reference Interval	Units

HAEMATOLOGY - CBC

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

BLOOD COUNTS,EDTA WHOLE BLOOD

HEMOGLOBIN (HB) METHOD : SPECTROPHOTOMETRY	**12.7 Low**	13.0 - 17.0	g/dL
RED BLOOD CELL (RBC) COUNT METHOD : ELECTRICAL IMPEDANCE	**4.36 Low**	4.5 - 5.5	mil/µL
WHITE BLOOD CELL (WBC) COUNT METHOD : ELECTRICAL IMPEDANCE	6.10	4.0 - 10.0	thou/µL
PLATELET COUNT METHOD : ELECTRICAL IMPEDANCE	153	150 - 410	thou/µL

RBC AND PLATELET INDICES

HEMATOCRIT (PCV) METHOD : CALCULATED PARAMETER	**39.1 Low**	40.0 - 50.0	%
MEAN CORPUSCULAR VOLUME (MCV) METHOD : DERIVED/COULTER PRINCIPLE	89.6	83.0 - 101.0	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH) METHOD : CALCULATED PARAMETER	29.1	27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD : CALCULATED PARAMETER	32.4	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW) METHOD : DERIVED/COULTER PRINCIPLE	**14.1 High**	11.6 - 14.0	%
MENTZER INDEX METHOD : CALCULATED PARAMETER	20.6		
MEAN PLATELET VOLUME (MPV) METHOD : DERIVED/COULTER PRINCIPLE	**13.8 High**	6.8 - 10.9	fL

WBC DIFFERENTIAL COUNT

NEUTROPHILS METHOD : VCS TECHNOLOGY/ MICROSCOPY	60	40 - 80	%
LYMPHOCYTES METHOD : VCS TECHNOLOGY/ MICROSCOPY	30	20 - 40	%
MONOCYTES METHOD : VCS TECHNOLOGY/ MICROSCOPY	8	2.0 - 10.0	%
EOSINOPHILS	2	1.0 - 6.0	%

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METHOD : VCS TECHNOLOGY/ MICROSCOPY			
BASOPHILS	0	0 - 1	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY			
ABSOLUTE NEUTROPHIL COUNT	3.60	2.0 - 7.0	thou/µL
METHOD : CALCULATED PARAMETER			
ABSOLUTE LYMPHOCYTE COUNT	1.80	1.0 - 3.0	thou/µL
METHOD : CALCULATED PARAMETER			
ABSOLUTE MONOCYTE COUNT	0.49	0.2 - 1.0	thou/µL
METHOD : CALCULATED PARAMETER			
ABSOLUTE EOSINOPHIL COUNT	0.12	0.02 - 0.50	thou/µL
METHOD : CALCULATED PARAMETER			
ABSOLUTE BASOPHIL COUNT	**0.00 Low**	0.02 - 0.10	thou/µL
METHOD : CALCULATED PARAMETER			
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	2.0		
METHOD : CALCULATED PARAMETER			

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.

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HAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD

E.S.R	**18 High**	< 15	mm at 1 hr

METHOD : MODIFIED WESTERGREN METHOD BY AUTOMATED ANALYSER

Interpretation(s)
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, 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

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.

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IMMUNOHAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP	TYPE O		
METHOD : COLUMN AGGLUTINATION TECHOLOGY			
RH TYPE	POSITIVE		
METHOD : COLUMN AGGLUTINATION TECHOLOGY			

Interpretation(s)
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.

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BIOCHEMISTRY

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

GLUCOSE FASTING,FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR)	87	74 - 106	mg/dL

METHOD : HEXOKINASE

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD

HBA1C	5.4	Non-diabetic Adult < 5.7 Pre-diabetes 5.7 - 6.4 Diabetes diagnosis: > or = 6.5 Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)	%

METHOD : HPLC

ESTIMATED AVERAGE GLUCOSE(EAG)	108.3	< 116.0	mg/dL

GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR)	92	Non-Diabetes 70 - 140	mg/dL

METHOD : HEXOKINASE

LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL	174	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL

METHOD : CHOLESTEROL OXIDASE, ESTERASE,PEROXIDASE

TRIGLYCERIDES	**192 High**	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/= 500 Very High	mg/dL

METHOD : ENZYMATIC, END POINT

HDL CHOLESTEROL	**28 Low**	< 40 Low >/=60 High	mg/dL

METHOD : DIRECT MEASURE POLYMER-POLYANION

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CHOLESTEROL LDL	**108 High**	< 100 Optimal 100 - 129 Near or above optimal 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
NON HDL CHOLESTEROL	**146 High**	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
METHOD : CALCULATED PARAMETER			
VERY LOW DENSITY LIPOPROTEIN	**38.4 High**	Desirable value : 10 - 35	mg/dL
CHOL/HDL RATIO	**6.2 High**	3.3-4.4 Low Risk 4.5-7.0 Average Risk 7.1-11.0 Moderate Risk > 11.0 High Risk	
LDL/HDL RATIO	**3.9 High**	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	

Interpretation(s)

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL	0.50	UPTO 1.2	mg/dL
METHOD : DIAZONIUM ION, BLANKED (ROCHE)			
BILIRUBIN, DIRECT	0.17	0.00 - 0.30	mg/dL
METHOD : DIAZOTIZATION			
BILIRUBIN, INDIRECT	0.33	0.00 - 0.60	mg/dL
METHOD : CALCULATED PARAMETER			
TOTAL PROTEIN	7.0	6.6 - 8.7	g/dL
METHOD : BIURET,SERUM BLANK,ENDPOINT			
ALBUMIN	4.5	3.97 - 4.94	g/dL
METHOD : BROMOCRESOL GREEN			

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GLOBULIN METHOD : CALCULATED PARAMETER	2.5	2.0 - 4.0 Neonates - Pre Mature: 0.29 - 1.04	g/dL
ALBUMIN/GLOBULIN RATIO METHOD : CALCULATED PARAMETER	1.8	1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT) METHOD : UV WITHOUT P5P	34	0 - 40	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT) METHOD : UV WITHOUT P5P	**79 High**	0 - 41	U/L
ALKALINE PHOSPHATASE METHOD : PNPP, AMP BUFFER-IFCC	106	40 - 129	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT) METHOD : G-GLUTAMYL-CARBOXY-NITROANILIDE-IFCC	46	8 - 61	U/L
LACTATE DEHYDROGENASE METHOD : L TO P, IFCC	161	135 - 225	U/L
BLOOD UREA NITROGEN (BUN), SERUM			
BLOOD UREA NITROGEN METHOD : UREASE - UV	10	6 - 20	mg/dL
CREATININE, SERUM			
CREATININE METHOD : ALKALINE PICRATE-KINETIC	0.97	0.70 - 1.20	mg/dL
BUN/CREAT RATIO			
BUN/CREAT RATIO METHOD : CALCULATED PARAMETER	10.31	5.00 - 15.00	
URIC ACID, SERUM			
URIC ACID METHOD : URICASE, COLORIMETRIC	**7.2 High**	3.4 - 7.0	mg/dL
TOTAL PROTEIN, SERUM			
TOTAL PROTEIN METHOD : BIURET,SERUM BLANK,ENDPOINT	7.0	6.6 - 8.7	g/dL
ALBUMIN, SERUM			
ALBUMIN METHOD : BROMOCRESOL GREEN	4.5	3.97 - 4.94	g/dL

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GLOBULIN			
GLOBULIN	2.5	2.0 - 4.0 Neonates - Pre Mature: 0.29 - 1.04	g/dL
METHOD : CALCULATED PARAMETER			
ELECTROLYTES (NA/K/CL), SERUM			
SODIUM, SERUM	140	136 - 145	mmol/L
METHOD : ISE INDIRECT			
POTASSIUM, SERUM	4.66	3.5 - 5.1	mmol/L
METHOD : ISE INDIRECT			
CHLORIDE, SERUM	103	98 - 107	mmol/L
METHOD : ISE INDIRECT			

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,anti depressants (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, high-dose 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 (Normal serum chloride)

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Interpretation(s)
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.
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 :
1. 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.
2.Vitamin C & E are reported to falsely lower test results.(possibly by inhibiting glycation of hemoglobin.
3. 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.
4. 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, 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, Pagets disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilsons 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.

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Patient Ref. No. 775000002711154

PATIENT NAME : SAHIL MALHOTRA **REF. DOCTOR :** SELF

CODE/NAME & ADDRESS : C000138361 ACROFEMI HEALTHCARE LTD (MEDIWHEEL) F-703, LADO SARAI, MEHRAULISOUTH WEST DELHI NEW DELHI 110030 8800465156	ACCESSION NO : **0028WC000755** PATIENT ID : SAHIM11069028 CLIENT PATIENT ID: ABHA NO :	AGE/SEX :32 Years Male DRAWN : RECEIVED :25/03/2023 09:01:43 REPORTED :27/03/2023 12:09:14

Test Report Status **Final**	Results	Biological Reference Interval	Units

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,Waldenstroms 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 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, 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: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma,Waldenstroms 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.

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CLINICAL PATH - URINALYSIS

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

PHYSICAL EXAMINATION, URINE			
COLOR METHOD : VISUAL	PALE YELLOW		
APPEARANCE METHOD : VISUAL	CLEAR		
CHEMICAL EXAMINATION, URINE			
PH METHOD : DOUBLE INDICATOR PRINCIPLE	6.0	4.7 - 7.5	
SPECIFIC GRAVITY METHOD : PKA CHANGE OF PRETREATED POLYELECTROLYTES	1.020	1.003 - 1.035	
PROTEIN METHOD : PROTEIN- ERROR INDICATOR	NOT DETECTED	NOT DETECTED	
GLUCOSE METHOD : OXIDASE-PEROXIDASE REACTION	NOT DETECTED	NOT DETECTED	
KETONES METHOD : ACETOACETIC REACTION WITH NITROPRUSSIDE	NOT DETECTED	NOT DETECTED	
BLOOD METHOD : PEROXIDASE-LIKE ACTIVITY OF HEMOGLOBIN	NOT DETECTED	NOT DETECTED	
BILIRUBIN METHOD : DIAZOTIZATION	NOT DETECTED	NOT DETECTED	
UROBILINOGEN METHOD : MODIFIED EHRLICH REACTION	NORMAL	NORMAL	
NITRITE METHOD : CONVERTION OF NITRATE TO NITRITE	NOT DETECTED	NOT DETECTED	
LEUKOCYTE ESTERASE METHOD : ESTERASE HYDROLYSIS ACTIVITY	NOT DETECTED	NOT DETECTED	
MICROSCOPIC EXAMINATION, URINE			
RED BLOOD CELLS METHOD : MICROSCOPIC EXAMINATION	NOT DETECTED	NOT DETECTED	/HPF
PUS CELL (WBC'S) METHOD : MICROSCOPIC EXAMINATION	0-1	0-5	/HPF
EPITHELIAL CELLS METHOD : MICROSCOPIC EXAMINATION	0-1	0-5	/HPF

Dr. Neena Verma
Senior Pathologist

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CASTS METHOD : MICROSCOPIC EXAMINATION	NOT DETECTED		
CRYSTALS METHOD : MICROSCOPIC EXAMINATION	NOT DETECTED		
BACTERIA METHOD : MICROSCOPIC EXAMINATION	NOT DETECTED	NOT DETECTED	
YEAST	NOT DETECTED	NOT DETECTED	

Interpretation(s)

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SPECIALISED CHEMISTRY - HORMONE

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

THYROID PANEL, SERUM

T3 METHOD : ECLIA	103.9	80.00 - 200.00	ng/dL
T4 METHOD : ECLIA	6.98	5.10 - 14.10	µg/dL
TSH (ULTRASENSITIVE) METHOD : ECLIA	3.020	0.270 - 4.200	µIU/mL

Interpretation(s)

Triiodothyronine T3 , **Thyroxine T4,** and **Thyroid Stimulating Hormone TSH** are thyroid hormones which affect 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.
Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called hypothyroidism.
In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hyperthyroidism, TSH levels are low.
owidctlparowidctlparBelow mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3.Measurement of the serum TT3 level is a more sensitive test for the diagnosis of hyperthyroidism, and measurement of TT4 is more useful in the diagnosis of 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. It is advisable to detect Free T3, FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4.

Sr. No.	TSH	Total T4	FT4	Total T3	Possible Conditions
1	High	Low	Low	Low	(1) Primary Hypothyroidism (2) Chronic autoimmune Thyroiditis (3) Post Thyroidectomy (4) Post Radio-Iodine treatment
2	High	Normal	Normal	Normal	(1)Subclinical Hypothyroidism (2) Patient with insufficient thyroid hormone replacement therapy (3) In cases of Autoimmune/Hashimoto thyroiditis (4). Isolated increase in TSH levels can be due to Subclinical inflammation, drugs like amphetamines, Iodine containing drug and dopamine antagonist e.g. domperidone and other physiological reasons.
3	Normal/Low	Low	Low	Low	(1) Secondary and Tertiary Hypothyroidism
4	Low	High	High	High	(1) Primary Hyperthyroidism (Graves Disease) (2) Multinodular Goitre (3)Toxic Nodular Goitre (4) Thyroiditis (5) Over treatment of thyroid hormone (6) Drug effect e.g. Glucocorticoids, dopamine, T4 replacement therapy (7) First trimester of Pregnancy
5	Low	Normal	Normal	Normal	(1) Subclinical Hyperthyroidism
6	High	High	High	High	(1) TSH secreting pituitary adenoma (2) TRH secreting tumor
7	Low	Low	Low	Low	(1) Central Hypothyroidism (2) Euthyroid sick syndrome (3) Recent treatment for Hyperthyroidism

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8	Normal/Low	Normal	Normal	High	(1) T3 thyrotoxicosis (2) Non-Thyroidal illness
9	Low	High	High	Normal	(1) T4 Ingestion (2) Thyroiditis (3) Interfering Anti TPO antibodies

REF: 1. TIETZ Fundamentals of Clinical chemistry 2.Guidlines of the American Thyroid association duriing pregnancy and Postpartum, 2011.

NOTE: It is advisable to detect Free T3,FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4.TSH is not affected by variation in thyroid - binding protein. TSH has a diurnal rhythm, with peaks at 2:00 - 4:00 a.m. And troughs at 5:00 - 6:00 p.m. With ultradian variations.

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MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

XRAY-CHEST

»»	BOTH THE LUNG FIELDS ARE CLEAR		
»»	BOTH THE COSTOPHRENIC AND CARIOPHRENIC ANGELS ARE CLEAR		
»»	BOTH THE HILA ARE NORMAL		
»»	CARDIAC AND AORTIC SHADOWS APPEAR NORMAL		
»»	BOTH THE DOMES OF THE DIAPHRAM ARE NORMAL		
»»	VISUALIZED BONY THORAX IS NORMAL		
IMPRESSION	NORMAL		

TMT OR ECHO

TMT OR ECHO	TMT DONE - POSITIVE TMT		

ECG

ECG	WITHIN NORMAL LIMITS		

MEDICAL HISTORY

RELEVANT PRESENT HISTORY	NOT SIGNIFICANT		
RELEVANT PAST HISTORY	NOT SIGNIFICANT		
RELEVANT PERSONAL HISTORY	MARRIED VEG		
RELEVANT FAMILY HISTORY	FATHER DIABTES		
OCCUPATIONAL HISTORY	JOB		
HISTORY OF MEDICATIONS	NOT SIGNIFICANT		

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS	1.67		mts
WEIGHT IN KGS.	96.1		Kgs
BMI	34	BMI & Weight Status as follows: Below 18.5: Underweight 18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese	kg/sqmts

GENERAL EXAMINATION

MENTAL / EMOTIONAL STATE	NORMAL
PHYSICAL ATTITUDE	NORMAL
GENERAL APPEARANCE / NUTRITIONAL STATUS	HEALTHY
BUILT / SKELETAL FRAMEWORK	AVERAGE

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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		
BREAST (FOR FEMALES)	NORMAL		
TEMPERATURE	NORMAL		
PULSE	97/MINUTE, REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT		
RESPIRATORY RATE	NORMAL		
CARDIOVASCULAR SYSTEM			
BP	119/71MM HG (SITTING)		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		
CENTRAL NERVOUS SYSTEM			
HIGHER FUNCTIONS	NORMAL		

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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 WITH GLASSES	NORMAL		
DISTANT VISION LEFT EYE WITH GLASSES	NORMAL		
NEAR VISION RIGHT EYE WITH GLASSES	NORMAL		
NEAR VISION LEFT EYE WITH GLASSES	NORMAL		
COLOUR VISION	NORMAL		
BASIC ENT EXAMINATION			
EXTERNAL EAR CANAL	NORMAL		
TYMPANIC MEMBRANE	NORMAL		
NOSE	NO ABNORMALITY DETECTED		
SINUSES	NORMAL		
THROAT	NO ABNORMALITY DETECTED		
TONSILS	NOT ENLARGED		
SUMMARY			
RELEVANT HISTORY	NOT SIGNIFICANT		
RELEVANT GP EXAMINATION FINDINGS	NOT SIGNIFICANT		
RELEVANT LAB INVESTIGATIONS	WITHIN NORMAL LIMITS		
RELEVANT NON PATHOLOGY DIAGNOSTICS	NO ABNORMALITIES DETECTED		
REMARKS / RECOMMENDATIONS	"NO ABNORMALITY FOUND OUT OF THE DIAGNOSTIC PACKAGE REQUESTED. GENERAL PHYSICAL EXAMINATION IS NORMAL."		

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ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

CHOLELITHIASIS WITHOUT DOCHOLITHIASIS WITH HEPATOMEGALY WITH FATTY CHANGE LIVER

Interpretation(s)
MEDICAL
HISTORY-**********
THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVIOLABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE. HOWEVER, ALL EXAMINATIONS AND INVESTIGATIONS HAVE BEEN CONDUCTED BY OUR PANEL OF DOCTORS.

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****End Of Report****
Please visit www.srlworld.com for related Test Information for this accession

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1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
2. All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
3. Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.
4. A requested test might not be performed if:
   i. Specimen received is insufficient or inappropriate
   ii. Specimen quality is unsatisfactory
   iii. Incorrect specimen type
   iv. Discrepancy between identification on specimen container label and test requisition form
5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
6. Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.
7. Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.
8. Test results cannot be used for Medico legal purposes.
9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

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