

PATIENT NAME: ABDULMAJID QURESHI REF. DOCTOR: SELF

CODE/NAME & ADDRESS : C000138364

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )
F-703, LADO SARAI, MEHRAULISOUTH WEST

DELHI

NEW DELHI 110030 8800465156 ACCESSION NO: 0321WA002494

: ABDUM110188321

CLIENT PATIENT ID:

ABHA NO :

PATIENT ID

AGE/SEX :35 Years Male
DRAWN :28/01/2023 00:00:00
RECEIVED :28/01/2023 08:20:03

RECEIVED :28/01/2023 08:20:03 REPORTED :01/02/2023 14:28:29

Test Report Status <u>Final</u> Results Biological Reference Interval Units

# MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

**XRAY-CHEST** 

IMPRESSION NO ABNORMALITY DETECTED

**TMT OR ECHO** 

TMT OR ECHO TMT:- NORMAL

ECG

ECG NORMAL SINUS RHYTHM

**MEDICAL HISTORY** 

RELEVANT PRESENT HISTORY

RELEVANT PAST HISTORY

RELEVANT PERSONAL HISTORY

RELEVANT FAMILY HISTORY

OCCUPATIONAL HISTORY

HISTORY

NOT SIGNIFICANT

NOT SIGNIFICANT

NOT SIGNIFICANT

NOT SIGNIFICANT

**ANTHROPOMETRIC DATA & BMI** 

HEIGHT IN METERS 1.70 mts WEIGHT IN KGS. 63.3 Kgs

BMI 8 Weight Status as follows/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 HEALTHY

STATUS

BUILT / SKELETAL FRAMEWORK
FACIAL APPEARANCE
SKIN
UPPER LIMB
LOWER LIMB
NORMAL
NECK
NORMAL

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER

Dr.Sahil .N.Shah Consultant Radiologist Dr.Priyank Kapadia Physician

P. V. Kapadia



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NOT ENLARGED THYROID GLAND

**NORMAL** TEMPERATURE 80/MIN **PULSE NORMAL** RESPIRATORY RATE

CARDIOVASCULAR SYSTEM

ΒP 110/70 MM HG mm/Hg

> (SITTING) **NORMAL**

**PERICARDIUM NORMAL** APEX BEAT

S1, S2 HEARD NORMALLY **HEART SOUNDS** 

**ABSENT MURMURS** 

RESPIRATORY SYSTEM

SIZE AND SHAPE OF CHEST NORMAL MOVEMENTS OF CHEST SYMMETRICAL BREATH SOUNDS INTENSITY **NORMAL** 

VESICULAR (NORMAL) BREATH SOUNDS QUALITY

ADDED SOUNDS **ABSENT** 

PER ABDOMEN

**APPEARANCE NORMAL** LIVER **NOT PALPABLE NOT PALPABLE SPLEEN** 

**CENTRAL NERVOUS SYSTEM** 

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

**MUSCULOSKELETAL SYSTEM** 

**NORMAL SPINE JOINTS NORMAL** 

**BASIC EYE EXAMINATION** 

DISTANT VISION RIGHT EYE WITH GLASSES WITH GLASSES NORMAL

Dr.Sahil .N.Shah **Consultant Radiologist**  Dr.Priyank Kapadia

**Physician** 

P. V. Espadia





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DISTANT VISION LEFT EYE WITH GLASSES NEAR VISION RIGHT EYE WITHOUT GLASSES NEAR VISION LEFT EYE WITHOUT GLASSES COLOUR VISION

SUMMARY

RELEVANT HISTORY RELEVANT GP EXAMINATION FINDINGS

RELEVANT LAB INVESTIGATIONS

REMARKS / RECOMMENDATIONS

RELEVANT NON PATHOLOGY DIAGNOSTICS

WITHIN NORMAL LIMIT WITHIN NORMAL LIMIT **NORMAL** 

WITH GLASSES NORMAL

NOT SIGNIFICANT NOT SIGNIFICANT

S.CHOLESTEROL:- HIGH, TRIGLYCERIDES:- HIGH, LDL:- HIGH

TOTAL BILIRUBIN:- HIGH, DIRECT BILIRUBIN:- HIGH, INDIRECT BILIRUBIN:- HIGH

NO ABNORMALITIES DETECTED

1) S.CHOLESTEROL:- HIGH, TRIGLYCERIDES:- HIGH, LDL:- HIGH

ADV:- LOW FAT DIET, REGULAR PHYSICAL EXERCISE

2) TOTAL BILIRUBIN:- HIGH, DIRECT BILIRUBIN:- HIGH, INDIRECT

BILIRUBIN:- HIGH

ADV:- REDUCE INTAKE OF FRIED AND OILY FOODS, PHYSICIAN OPINION

### Comments

OUR PANEL DOCTORS FOR NON-PATHOLOGY TESTS:-

CHECK UP DONE BY: - DR. NAMRATA AGRAWAL (M.B.B.S)

REPORT REVIEWED BY:- DR. PRIYANK KAPADIYA (M.B.B.S DNB MEDICINE)

RADIOLOGIST: - DR. KALPANA MODI (M.D.RADIOLOGY) // DR. SAHIL N SHAH (M.D.RADIOLOGY)

Dr.Sahil .N.Shah Consultant Radiologist P. V. Kapadia

Dr.Priyank Kapadia **Physician** 





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**ULTRASOUND ABDOMEN** 

**ULTRASOUND ABDOMEN** 

NO ABNORMALITIES DETECTED

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.

Dr.Sahil .N.Shah **Consultant Radiologist**  P. V. Kapadia

Dr.Priyank Kapadia Physician





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н	AEMATOLOGY - CBC		
MEDI WHEEL FULL BODY HEALTH CHECK UP B	ELOW 40 MALE		
BLOOD COUNTS,EDTA WHOLE BLOOD			
HEMOGLOBIN (HB)	15.5	13.0 - 17.0	g/dL
RED BLOOD CELL (RBC) COUNT	5.34	4.5 - 5.5	mil/μL
WHITE BLOOD CELL (WBC) COUNT	6.71	4.0 - 10.0	thou/µL
PLATELET COUNT	305	150 - 410	thou/µL
RBC AND PLATELET INDICES			
HEMATOCRIT (PCV)	47.8	40.0 - 50.0	%
MEAN CORPUSCULAR VOLUME (MCV)	89.5	83.0 - 101.0	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	29.1	27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN	32.5	31.5 - 34.5	g/dL
CONCENTRATION (MCHC) RED CELL DISTRIBUTION WIDTH (RDW)	14.7 High	11.6 - 14.0	%
MENTZER INDEX	16.8	11.0 - 14.0	70
MEAN PLATELET VOLUME (MPV)	7.9	6.8 - 10.9	fL
WBC DIFFERENTIAL COUNT	7.5	0.0 10.9	
NEUTROPHILS	35 Low	40 - 80	%
LYMPHOCYTES	52 High	20 - 40	%
MONOCYTES	9	2.0 - 10.0	%
EOSINOPHILS	4	1.0 - 6.0	%
BASOPHILS	0	0 - 1	%
ABSOLUTE NEUTROPHIL COUNT	2.35	2.0 - 7.0	thou/µL
ABSOLUTE LYMPHOCYTE COUNT	3.49 High	1.0 - 3.0	thou/µL
ABSOLUTE MONOCYTE COUNT	0.60	0.2 - 1.0	thou/µL
ABSOLUTE EOSINOPHIL COUNT	0.27	0.02 - 0.50	thou/µL
ABSOLUTE BASOPHIL COUNT	0.00 Low	0.02 - 0.10	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	0.7		
MORPHOLOGY			
RBC	NORMOCYTIC NORMOCH	ROMIC	
WBC	RELATIVE LYMPHOCYTOS	SIS	
PLATELETS	ADEQUATE		

Loger

Dr.Miral Gajera Consultant Pathologist





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REMARKS

NO PREMATURE CELLS ARE SEEN. MALARIAL PARASITE NOT

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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mm at 1 hr

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### **HAEMATOLOGY**

### MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

### **ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD**

E.S.R 05 0 - 14

### 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 results and response it is a non-specific less that may be elevated in a number or different conditions. It pr 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)

# 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

TYPE B **ABO GROUP** RH TYPE **POSITIVE** 

# 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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GLUCOSE FASTING FLUORIDE DI ASMA

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

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**BIOCHEMISTRY** 

GLUCUSE FASTING, FLUURIDE PLASMA			
FBS (FASTING BLOOD SUGAR)	93	74 - 99	mg/dL
GLYCOSYLATED HEMOGLOBIN(HBA1C), ED BLOOD	OTA WHOLE		
HBA1C	4.9	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 Therapeutic goals: < 7.0 Action suggested: > 8.0 (ADA Guideline 2021)	%
ESTIMATED AVERAGE GLUCOSE(EAG)	93.9	< 116.0	mg/dL
GLUCOSE, POST-PRANDIAL, PLASMA			
PPBS(POST PRANDIAL BLOOD SUGAR)	88	70 - 140	mg/dL
LIPID PROFILE, SERUM			
CHOLESTEROL, TOTAL	231 High	Desirable: < 200 BorderlineHigh: 200 - 239 High: > or = 240	mg/dL
TRIGLYCERIDES	184 High	Desirable: < 150 BorderlineHigh: 150 - 199 High: 200 - 499 Very High: > or = 500	mg/dL

Borderline high: 130-159 High: 160-189 Very high: = 190

49

145 High

NON HDL CHOLESTEROL 182 High Desirable: Less than 130

Above Desirable: 130 - 159 Borderline High: 160 - 189

Near optimal/above optimal:

High: 190 - 219

< 40 Low

100-129

> or = 60 High

Optimal < 100

Adult levels:

Very high: > or = 220

VERY LOW DENSITY LIPOPROTEIN 36.8 mg/dL

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HDL CHOLESTEROL

CHOLESTEROL LDL



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mg/dL

mg/dL

mg/dL



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CHOL/HDL RATIO	4.7		
LDL/HDL RATIO	3.0	0.5 - 3.0 Desirable/Lo	w Dick
EDE/TIDE RATIO	3.0	3.1 - 6.0 Borderline/M	
		Risk	
		>6.0 High Risk	
Interpretation(s)			
LIVER FUNCTION PROFILE, SERUM			
BILIRUBIN, TOTAL	1.54 High	Upto 1.2	mg/dL
BILIRUBIN, DIRECT	0.45 High	Upto 0.2	mg/dL
BILIRUBIN, INDIRECT	1.09 High	0.00 - 1.00	mg/dL
TOTAL PROTEIN	6.9	6.4 - 8.3	g/dL
ALBUMIN	5.0	3.5 - 5.2	g/dL
GLOBULIN	1.9 Low	2.0 - 4.1	g/dL
ALBUMIN/GLOBULIN RATIO	2.6 High	1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	21	0 - 40	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT)	27	0 - 41	U/L
ALKALINE PHOSPHATASE	95	40 - 129	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT)	23	8 - 61	U/L
LACTATE DEHYDROGENASE	145	135 - 225	U/L
BLOOD UREA NITROGEN (BUN), SERUM			
BLOOD UREA NITROGEN	10	6 - 20	mg/dL
CREATININE, SERUM			
CREATININE	0.82	0.70 - 1.30	mg/dL
BUN/CREAT RATIO			
BUN/CREAT RATIO	12.20	5.0 - 15.0	
URIC ACID, SERUM			
URIC ACID	5.7	3.4 - 7.0	mg/dL
TOTAL PROTEIN, SERUM			
TOTAL PROTEIN	6.9	6.4 - 8.3	g/dL
ALBUMIN, SERUM			
ALBUMIN	5.0	3.5 - 5.2	g/dL

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GLOBULIN				
GLOBULIN	1.9 Low	2.0 - 4.1	g/dL	
ELECTROLYTES (NA/K/CL), SERUM				
SODIUM, SERUM	140.3	136- 145	mmol/L	
POTASSIUM, SERUM	4.39	3.50- 5.10	mmol/L	
CHLORIDE, SERUM	104.5	98 - 107	mmol/L	
Interpretation(s)				

### 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

### 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 onse 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 :

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.

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, 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

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# **PERFORMED AT:**

SRL LTD GRAND MALL, OPPOSITE SBI ZONAL OFFICE, SM ROAD, AMBAWADI, AHMEDABAD, 380015 GUJRAT, INDIA







Male

**REF. DOCTOR: SELF PATIENT NAME: ABDULMAJID QURESHI** 

CODE/NAME & ADDRESS: C000138364 ACROFEMI HEALTHCARE LTD ( MEDIWHEEL ) F-703, LADO SARAI, MEHRAULISOUTH WEST

DELHI

**NEW DELHI 110030** 

8800465156

ACCESSION NO : 0321WA002494 PATIENT ID : ABDUM110188321

CLIENT PATIENT ID: ABHA NO

:28/01/2023 00:00:00 DRAWN RECEIVED: 28/01/2023 08:20:03

:35 Years

AGE/SEX

REPORTED :01/02/2023 14:28:29

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

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, mainutrition 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

Causes of decreased levels-Low Zinc intake, OCP, Multiple Sclerosis

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""""""" 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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PATIENT NAME : ABDULMAJID QURESHI REF. DOCTOR : SELF

CODE/NAME & ADDRESS: C000138364

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )

F-703, LADO SARAI, MEHRAULISOUTH WEST

DELHI

NEW DELHI 110030 8800465156 ACCESSION NO: **0321WA002494**PATIENT ID: ABDUM110188321

CLIENT PATIENT ID:

ABHA NO :

AGE/SEX :35 Years Male
DRAWN :28/01/2023 00:00:00

RECEIVED : 28/01/2023 08:20:03 REPORTED :01/02/2023 14:28:29

Test Report Status <u>Final</u> Results Biological Reference Interval Units

## **CLINICAL PATH - URINALYSIS**

### MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

PHYSICAL EXAMINATION, URINE

COLOR Yellow APPEARANCE Clear

CHEMICAL EXAMINATION, URINE

PΗ 5.0 4.7 - 7.51.003 - 1.035 SPECIFIC GRAVITY 1.025 **PROTEIN** NOT DETECTED NOT DETECTED **GLUCOSE** NOT DETECTED NOT DETECTED **KETONES** NOT DETECTED NOT DETECTED **BLOOD** NOT DETECTED NOT DETECTED **BILIRUBIN** NOT DETECTED NOT DETECTED UROBILINOGEN **NORMAL NORMAL NITRITE** NOT DETECTED NOT DETECTED LEUKOCYTE ESTERASE NOT DETECTED NOT DETECTED

MICROSCOPIC EXAMINATION, URINE

RED BLOOD CELLS

NOT DETECTED

NOT DETECTED

/HPF
PUS CELL (WBC'S)

2-3

0-5

/HPF
EPITHELIAL CELLS

1-2

0-5

/HPF

CASTS NOT DETECTED
CRYSTALS NOT DETECTED

BACTERIA NOT DETECTED NOT DETECTED
YEAST NOT DETECTED NOT DETECTED

REMARKS MICROSCOPIC EXAMINATION OF URINE IS CARRIED OUT ON

CENTRIFUGED URINARY SEDIMENT.

# Interpretation(s)

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Male

**REF. DOCTOR: SELF PATIENT NAME: ABDULMAJID QURESHI** 

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

## **SPECIALISED CHEMISTRY - HORMONE**

# MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

# **THYROID PANEL, SERUM**

ТЗ	145.20	80.00 - 200.00	ng/dL	
T4	9.02	5.10 - 14.10	μg/dL	
TSH (ULTRASENSITIVE)	2.450	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 hyporthyroidism, 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
	6264				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
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 during pregnancy and Postpartum, 2011.

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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.

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

### **CONDITIONS OF LABORATORY TESTING & REPORTING**

- 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.
- 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.
- Test results cannot be used for Medico legal purposes.
- In case of queries please call customer care (91115 91115) within 48 hours of the report.

**SRL Limited** 

Fortis Hospital, Sector 62, Phase VIII, Mohali 160062

Dr.Miral Gajera Consultant Pathologist





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