

PATIENT NAME : ANKIT PANDEY

REF. DOCTOR : DR. MEDIWHEEL

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

ACCESSION NO : **0028WD000242**  
PATIENT ID : ANKIM21078628  
CLIENT PATIENT ID:  
ABHA NO :

AGE/SEX : 36 Years Male  
DRAWN :  
RECEIVED : 08/04/2023 09:20:36  
REPORTED : 10/04/2023 11:55:23

Test Report Status	Final	Results	Biological Reference Interval	Units
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## HAEMATOLOGY - CBC

**MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE****BLOOD COUNTS, EDTA WHOLE BLOOD**

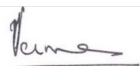
HEMOGLOBIN (HB)	15.5	13.0 - 17.0	g/dL
METHOD : SPECTROPHOTOMETRY			
RED BLOOD CELL (RBC) COUNT	5.33	4.5 - 5.5	mil/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE			
WHITE BLOOD CELL (WBC) COUNT	4.70	4.0 - 10.0	thou/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE			
PLATELET COUNT	<b>137 Low</b>	150 - 410	thou/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE			

**RBC AND PLATELET INDICES**

HEMATOCRIT (PCV)	47.2	40.0 - 50.0	%
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR VOLUME (MCV)	88.6	83.0 - 101.0	fL
METHOD : DERIVED/COULTER PRINCIPLE			
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	29.1	27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)	32.9	31.5 - 34.5	g/dL
METHOD : CALCULATED PARAMETER			
RED CELL DISTRIBUTION WIDTH (RDW)	<b>14.4 High</b>	11.6 - 14.0	%
METHOD : DERIVED/COULTER PRINCIPLE			
MENTZER INDEX	16.6		
METHOD : CALCULATED PARAMETER			
MEAN PLATELET VOLUME (MPV)	9.5	6.8 - 10.9	fL
METHOD : DERIVED/COULTER PRINCIPLE			

**WBC DIFFERENTIAL COUNT**

NEUTROPHILS	65	40 - 80	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY			
LYMPHOCYTES	24	20 - 40	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY			
MONOCYTES	7	2.0 - 10.0	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY			
EOSINOPHILS	4	1.0 - 6.0	%



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Senior Pathologist

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Patient Ref. No. 775000002844164

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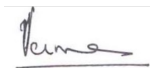
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METHOD : VCS TECHNOLOGY/ MICROSCOPY				
BASOPHILS		0	0 - 1	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY				
ABSOLUTE NEUTROPHIL COUNT		3.06	2.0 - 7.0	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
ABSOLUTE LYMPHOCYTE COUNT		1.20	1.0 - 3.0	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
ABSOLUTE MONOCYTE COUNT		0.30	0.2 - 1.0	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
ABSOLUTE EOSINOPHIL COUNT		0.19	0.02 - 0.50	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
ABSOLUTE BASOPHIL COUNT		<b>0.00 Low</b>	0.02 - 0.10	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
NEUTROPHIL LYMPHOCYTE RATIO (NLR)		2.6		
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 4 &lt; 15 mm at 1 hr

METHOD : MODIFIED WESTERGREIN 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, 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

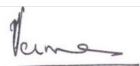
**LIMITATIONS**

**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.



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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 A

METHOD : COLUMN AGGLUTINATION TECHNOLOGY

RH TYPE

POSITIVE

METHOD : COLUMN AGGLUTINATION TECHNOLOGY

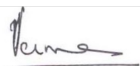
**Interpretation(s)**

ABO GROUP &amp; 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)	119 High	74 - 106	mg/dL
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METHOD : HEXOKINASE

## GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD

HBA1C	5.7	Non-diabetic Adult < 5.7	%
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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)	116.9 High	< 116.0	mg/dL
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## GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR)	131	Non-Diabetes	mg/dL
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70 - 140

METHOD : HEXOKINASE

## LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL	205 High	< 200 Desirable	mg/dL
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200 - 239 Borderline High  
>/= 240 High

METHOD : CHOLESTEROL OXIDASE, ESTERASE, PEROXIDASE

TRIGLYCERIDES	215 High	< 150 Normal	mg/dL
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150 - 199 Borderline High  
200 - 499 High  
>/= 500 Very High

METHOD : ENZYMATIC, END POINT

HDL CHOLESTEROL	35 Low	< 40 Low	mg/dL
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&gt;/=60 High

METHOD : DIRECT MEASURE POLYMER-POLYANION


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CHOLESTEROL LDL	<b>127 High</b>	< 100 Optimal 100 - 129 Near or above optimal 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
NON HDL CHOLESTEROL	<b>170 High</b>	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	<b>43.0 High</b>	Desirable value :	mg/dL
CHOL/HDL RATIO	<b>5.9 High</b>	10 - 35 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	<b>3.6 High</b>	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	<b>1.26 High</b>	UPTO 1.2	mg/dL
METHOD : DIAZONIUM ION, BLANKED ( ROCHE )			
BILIRUBIN, DIRECT	<b>0.44 High</b>	0.00 - 0.30	mg/dL
METHOD : DIAZOTIZATION			
BILIRUBIN, INDIRECT	<b>0.82 High</b>	0.00 - 0.60	mg/dL
METHOD : CALCULATED PARAMETER			
TOTAL PROTEIN	8.3	6.6 - 8.7	g/dL
METHOD : BIURET,SERUM BLANK,ENDPOINT			
ALBUMIN	<b>5.1 High</b>	3.97 - 4.94	g/dL
METHOD : BROMOCRESOL GREEN			



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GLOBULIN	3.2	2.0 - 4.0 Neonates - Pre Mature: 0.29 - 1.04	g/dL
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METHOD : CALCULATED PARAMETER

ALBUMIN/GLOBULIN RATIO	1.6	1.0 - 2.0	RATIO
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METHOD : CALCULATED PARAMETER

ASPARTATE AMINOTRANSFERASE(AST/SGOT)	<b>47 High</b>	0 - 40	U/L
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METHOD : UV WITHOUT P5P

ALANINE AMINOTRANSFERASE (ALT/SGPT)	<b>70 High</b>	0 - 41	U/L
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METHOD : UV WITHOUT P5P

ALKALINE PHOSPHATASE	128	40 - 129	U/L
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METHOD : PNPP, AMP BUFFER-IFCC

GAMMA GLUTAMYL TRANSFERASE (GGT)	<b>115 High</b>	8 - 61	U/L
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METHOD : G-GLUTAMYL-CARBOXY-NITROANILIDE-IFCC

LACTATE DEHYDROGENASE	<b>226 High</b>	135 - 225	U/L
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METHOD : L TO P, IFCC

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

BLOOD UREA NITROGEN	11	6 - 20	mg/dL
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METHOD : UREASE - UV

**CREATININE, SERUM**

CREATININE	0.94	0.70 - 1.20	mg/dL
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METHOD : ALKALINE PICRATE-KINETIC

**BUN/CREAT RATIO**

BUN/CREAT RATIO	11.70	5.00 - 15.00	
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METHOD : CALCULATED PARAMETER

**URIC ACID, SERUM**

URIC ACID	6.5	3.4 - 7.0	mg/dL
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METHOD : URICASE, COLORIMETRIC

**TOTAL PROTEIN, SERUM**

TOTAL PROTEIN	8.3	6.6 - 8.7	g/dL
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METHOD : BIURET,SERUM BLANK,ENDPOINT

**ALBUMIN, SERUM**

ALBUMIN	<b>5.1 High</b>	3.97 - 4.94	g/dL
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METHOD : BROMOCRESOL GREEN

**GLOBULIN**


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METHOD : CALCULATED PARAMETER

**ELECTROLYTES (NA/K/CL), SERUM**

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

POTASSIUM, SERUM	4.20	3.5 - 5.1	mmol/L
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METHOD : ISE INDIRECT

CHLORIDE, SERUM	<b>95 Low</b>	98 - 107	mmol/L
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METHOD : ISE INDIRECT

**Interpretation(s)**

Sodium	Potassium	Chloride
<b>Decreased in:</b> 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.	<b>Decreased in:</b> 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.	<b>Decreased in:</b> 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.
<b>Increased in:</b> Dehydration (excessivesweating, severe vomiting or diarrhea),diabetes mellitus, diabetesinsipidus, hyperaldosteronism, inadequate water intake. Drugs: steroids, licorice,oral contraceptives.	<b>Increased in:</b> 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.	<b>Increased in:</b> 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.
<b>Interferences:</b> 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.	<b>Interferences:</b> 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.	<b>Interferences:</b> 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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F-703, LADO SARAI, MEHRAULISOUTH WEST  
DELHINEW DELHI 110030  
8800465156

ACCESSION NO : 0028WD000242

PATIENT ID : ANKIM21078628

CLIENT PATIENT ID:

ABHA NO :

AGE/SEX : 36 Years Male

DRAWN :

RECEIVED : 08/04/2023 09:20:36

REPORTED : 10/04/2023 11:55:23

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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 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; 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 Glycosuria, 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 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 :**

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 addition 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 platform (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 Glycosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc. Additional test HbA1c 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 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.

**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, Waldenström'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** 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



Dr. Shyla Goel, M.B.B.S, DCP  
Sr. Pathologist

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Patient Ref. No. 77500002844164

**PATIENT NAME : ANKIT PANDEY**

**REF. DOCTOR : DR. MEDIWHEEL**

**CODE/NAME & ADDRESS : C000138361**

**ACCESSION NO : 0028WD000242**

**AGE/SEX : 36 Years Male**

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DELHI

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(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.



**Dr. Shyla Goel, M.B.B.S ,DCP  
Sr.Pathologist**



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**CLINICAL PATH - URINALYSIS**

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

**PHYSICAL EXAMINATION, URINE**

**COLOR** PALE YELLOW  
METHOD : VISUAL

**APPEARANCE** CLEAR  
METHOD : VISUAL

**CHEMICAL EXAMINATION, URINE**

**PH** 6.0 4.7 - 7.5  
METHOD : DOUBLE INDICATOR PRINCIPLE

**SPECIFIC GRAVITY** 1.015 1.003 - 1.035  
METHOD : PKA CHANGE OF PRETREATED POLYELECTROLYTES

**PROTEIN** NOT DETECTED NOT DETECTED  
METHOD : PROTEIN- ERROR INDICATOR

**GLUCOSE** NOT DETECTED NOT DETECTED  
METHOD : OXIDASE-PEROXIDASE REACTION

**KETONES** NOT DETECTED NOT DETECTED  
METHOD : ACETOACETIC REACTION WITH NITROPRUSSIDE

**BLOOD** NOT DETECTED NOT DETECTED  
METHOD : PEROXIDASE-LIKE ACTIVITY OF HEMOGLOBIN

**BILIRUBIN** NOT DETECTED NOT DETECTED  
METHOD : DIAZOTIZATION

**UROBILINOGEN** NORMAL NORMAL  
METHOD : MODIFIED EHRlich REACTION

**NITRITE** NOT DETECTED NOT DETECTED  
METHOD : CONVERSION OF NITRATE TO NITRITE

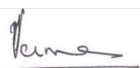
**LEUKOCYTE ESTERASE** NOT DETECTED NOT DETECTED  
METHOD : ESTERASE HYDROLYSIS ACTIVITY

**MICROSCOPIC EXAMINATION, URINE**

**RED BLOOD CELLS** NOT DETECTED NOT DETECTED /HPF  
METHOD : MICROSCOPIC EXAMINATION

**PUS CELL (WBC'S)** 1-2 0-5 /HPF  
METHOD : MICROSCOPIC EXAMINATION

**EPITHELIAL CELLS** 0-1 0-5 /HPF  
METHOD : MICROSCOPIC EXAMINATION



**Dr. Neena Verma**  
 Senior Pathologist



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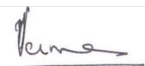
**ACCESSION NO :** **0028WD000242**  
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CASTS METHOD : MICROSCOPIC EXAMINATION		NOT DETECTED		
CRYSTALS METHOD : MICROSCOPIC EXAMINATION		NOT DETECTED		
BACTERIA METHOD : MICROSCOPIC EXAMINATION		NOT DETECTED	NOT DETECTED	
YEAST		NOT DETECTED	NOT DETECTED	

**Interpretation(s)**



**Dr. Neena Verma**  
**Senior Pathologist**



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**SPECIALISED CHEMISTRY - HORMONE**

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

**THYROID PANEL, SERUM**

T3	92.7	80.00 - 200.00	ng/dL
METHOD : ECLIA			
T4	6.26	5.10 - 14.10	µg/dL
METHOD : ECLIA			
TSH (ULTRASENSITIVE)	1.940	0.270 - 4.200	µIU/mL
METHOD : ECLIA			

**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. Below 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

**Dr. Shyla Goel, M.B.B.S ,DCP**  
**Sr.Pathologist**



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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 during 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

2D ECHO DONE

**ECG**

ECG

WITHIN NORMAL LIMITS

**MEDICAL HISTORY**

RELEVANT PRESENT HISTORY NOT SIGNIFICANT  
 RELEVANT PAST HISTORY H/O JAUNDICE ON 8TH MARCH AND COVID +VE ON 2021  
 RELEVANT PERSONAL HISTORY MARRIED , VEGETARIAN  
 RELEVANT FAMILY HISTORY PARENT - HTN / DM  
 OCCUPATIONAL HISTORY JOB  
 HISTORY OF MEDICATIONS NOT SIGNIFICANT

**ANTHROPOMETRIC DATA & BMI**

HEIGHT IN METERS 1.82 mts  
 WEIGHT IN KGS. 94 Kgs  
 BMI 28  
 BMI & 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 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		
TEMPERATURE	NORMAL		
PULSE	83/MIN REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT		
RESPIRATORY RATE	NORMAL		
<b>CARDIOVASCULAR SYSTEM</b>			
BP	104/67		mm/Hg
PERICARDIUM	NORMAL		
APEX BEAT	NORMAL		
HEART SOUNDS	NORMAL		
MURMURS	ABSENT		
<b>RESPIRATORY SYSTEM</b>			
SIZE AND SHAPE OF CHEST	NORMAL		
MOVEMENTS OF CHEST	SYMMETRICAL		
BREATH SOUNDS INTENSITY	NORMAL		
BREATH SOUNDS QUALITY	VESICULAR (NORMAL)		
ADDED SOUNDS	ABSENT		
<b>PER ABDOMEN</b>			
APPEARANCE	NORMAL		
VENOUS PROMINENCE	ABSENT		
LIVER	NOT PALPABLE		
SPLEEN	NOT PALPABLE		
<b>CENTRAL NERVOUS SYSTEM</b>			
HIGHER FUNCTIONS	NORMAL		
CRANIAL NERVES	NORMAL		
CEREBELLAR FUNCTIONS	NORMAL		



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**PATIENT ID : ANKIM21078628**

**CLIENT PATIENT ID:**

**ABHA NO :**

**AGE/SEX : 36 Years Male**

**DRAWN :**

**RECEIVED : 08/04/2023 09:20:36**

**REPORTED : 10/04/2023 11:55:23**

Test Report Status	Final	Results	Biological Reference Interval	Units
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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 WITHOUT GLASSES NORMAL  
DISTANT VISION LEFT EYE WITHOUT GLASSES NORMAL  
NEAR VISION RIGHT EYE WITHOUT GLASSES NORMAL  
NEAR VISION LEFT EYE WITHOUT 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."



View Details



View Report

**PERFORMED AT :**

SRL Ltd  
E-368, LGF, Nirman Vihar, Near Nirman Vihar Metro  
NEW DELHI, 110092  
NEW DELHI, INDIA  
Tel : 9111591115, Fax :  
CIN - U74899PB1995PLC045956  
Email : wellness.eastdelhi@srl.in



**Patient Ref. No. 77500002844164**

**PATIENT NAME : ANKIT PANDEY**

**REF. DOCTOR : DR. MEDIWHEEL**

**CODE/NAME & ADDRESS : C000138361**

**ACCESSION NO : 0028WD000242**

**AGE/SEX : 36 Years Male**

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

**PATIENT ID : ANKIM21078628**

**DRAWN :**

NEW DELHI 110030  
8800465156

**CLIENT PATIENT ID:**

**RECEIVED : 08/04/2023 09:20:36**

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Test Report Status	Final	Results	Biological Reference Interval	Units
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**MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE**

**ULTRASOUND ABDOMEN**

**ULTRASOUND ABDOMEN**

FATTY CHANGE LIVER WITH SPLENOMEGALY WITH PROSTATOMEGALY

**Interpretation(s)**

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.

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**\*\*End Of Report\*\***

**Please visit [www.srlworld.com](http://www.srlworld.com) for related Test Information for this accession**

**CONDITIONS OF LABORATORY TESTING & REPORTING**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.</li> <li>2. All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.</li> <li>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.</li> <li>4. A requested test might not be performed if:                     <ol style="list-style-type: none"> <li>i. Specimen received is insufficient or inappropriate</li> <li>ii. Specimen quality is unsatisfactory</li> <li>iii. Incorrect specimen type</li> <li>iv. Discrepancy between identification on specimen container label and test requisition form</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety &amp; technical integrity.</li> <li>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.</li> <li>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.</li> <li>8. Test results cannot be used for Medico legal purposes.</li> <li>9. In case of queries please call customer care (91115 91115) within 48 hours of the report.</li> </ol> |
|---|---|

**SRL Limited**

Fortis Hospital, Sector 62, Phase VIII,  
Mohali 160062



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**Patient Ref. No. 775000002844164**