



CODE/NAME & ADDRESS: C000049066

SRL JAIPUR WELLNESS CORPORATE WALK IN
AAKRITI LABS PVT LTD. A-430, AGRASEN MARG

JAIPUR 302017 9314660100 ACCESSION NO: **0251VL000904**PATIENT ID: VIJAF101285251
CLIENT PATIENT ID: 012212100018

ABHA NO :

AGE/SEX :37 Years Female
DRAWN :10/12/2022 09:01:00
RECEIVED :10/12/2022 14:44:56

REPORTED :10/12/2022 19:23:08

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

į.	AEMATOLOGY - CBC		
MEDI WHEEL FULL BODY HEALTH CHECKUP BE	LOW 40FEMALE		
BLOOD COUNTS,EDTA WHOLE BLOOD			
HEMOGLOBIN (HB) METHOD: CYANIDE FREE DETERMINATION	11.2 Low	12.0 - 15.0	g/dL
RED BLOOD CELL (RBC) COUNT METHOD: ELECTRICAL IMPEDANCE	3.92	3.8 - 4.8	mi l /μL
WHITE BLOOD CELL (WBC) COUNT METHOD: ELECTRICAL IMPEDANCE	3.70 Low	4.0 - 10.0	thou/μL
PLATELET COUNT METHOD: ELECTRONIC IMPEDANCE	182	150 - 410	thou/μL
RBC AND PLATELET INDICES			
HEMATOCRIT (PCV) METHOD: CALCULATED PARAMETER	35.4 Low	36 - 46	%
MEAN CORPUSCULAR VOLUME (MCV) METHOD: CALCULATED PARAMETER	90.0	83 - 101	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH) METHOD: CALCULATED PARAMETER	28.7	27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD: CALCULATED PARAMETER	31.8	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW) METHOD: CALCULATED PARAMETER	13.1	11.6 - 14.0	%
MENTZER INDEX	23.0		
MEAN PLATELET VOLUME (MPV) METHOD: CALCULATED PARAMETER	10.6	6.8 - 10.9	fL
WBC DIFFERENTIAL COUNT			
NEUTROPHILS METHOD: IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY	54	40 - 80	%
LYMPHOCYTES METHOD: IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY	39	20 - 40	%
MONOCYTES METHOD: IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY	04	2 - 10	%
EOSINOPHILS METHOD: IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY	03	1 - 6	%

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BASOPHILS	00	0 - 2	%
METHOD: IMPEDANCE WITH HYDRO FOCUS AND MICROSCOPY			
ABSOLUTE NEUTROPHIL COUNT	2.00	2.0 - 7.0	thou/μL
METHOD: CALCULATED PARAMETER			
ABSOLUTE LYMPHOCYTE COUNT	1.44	1.0 - 3.0	thou/µL
METHOD: CALCULATED PARAMETER			
ABSOLUTE MONOCYTE COUNT	0.15 Low	0.2 - 1.0	thou/μL
METHOD: CALCULATED PARAMETER			
ABSOLUTE EOSINOPHIL COUNT	0.11	0.02 - 0.50	thou/µL
METHOD : CALCULATED PARAMETER			
ABSOLUTE BASOPHIL COUNT	0 Low	0.02 - 0.10	thou/µL
		0.02 0.10	
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.3		

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 CHECKUP BELOW 40FEMALE

ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD

E.S.R 0 - 20mm at 1 hr

METHOD: AUTOMATED (PHOTOMETRICAL CAPILLARY STOPPED FLOW KINETIC ANALYSIS)"

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

False elevated ESR: Increased fibrinogen, Drugs(Vitamin A, Dextran etc.), Hypercholesterolemia
False Decreased: Poikilocytosis, (SickleCells, spherocytes), Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine,

salicylates)

1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition; 2. Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin; 3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis, 10th edition.

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IMMUNOHAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE B

METHOD: TUBE AGGLUTINATION

POSITIVE RH TYPE

METHOD: TUBE AGGLUTINATION

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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RT	2	HE	MIT	STRY

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

GLUCOSE FASTING, FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR) 105 High 74 - 99 mg/dL

METHOD: GLUCOSE OXIDASE

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE

BLOOD

HBA1C 5.7 Non-diabetic: < 5.7 %

> Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)

METHOD: HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

ESTIMATED AVERAGE GLUCOSE(EAG) 116.9 High < 116.0 mg/dL

METHOD: CALCULATED PARAMETER

GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR) 116 70 - 140 mg/dL

METHOD: GLUCOSE OXIDASE LIPID PROFILE, SERUM

182 < 200 Desirable

mg/dL CHOLESTEROL, TOTAL

200 - 239 Borderline High

>/= 240 High METHOD: CHOLESTEROL OXIDASE

TRIGLYCERIDES 43 < 150 Normal mg/dL

150 - 199 Borderline High

200 - 499 High >/=500 Very High

METHOD: LIPASE/GPO-PAP NO CORRECTION

84 High mg/dL HDL CHOLESTEROL < 40 Low

>/=60 High

METHOD: DIRECT CLEARANCE METHOD

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Test Report Status <u>Final</u>	Results	Biological Reference Interva	l Units
CHOLESTEROL LDL	89	< 100 Optimal 100 - 129 Near optimal/ above optima 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
NON HDL CHOLESTEROL	98	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
METHOD: CALCULATED PARAMETER		, 3	
CHOL/HDL RATIO	2.2 Low	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	1.1	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Modera Risk >6.0 High Risk	
VERY LOW DENSITY LIPOPROTEIN Interpretation(s)	8.6	= 30.0</td <td>mg/dL</td>	mg/dL
LIVER FUNCTION PROFILE, SERUM			
BILIRUBIN, TOTAL METHOD: DIAZO WITH SULPHANILIC ACID	0.35	0 - 1	mg/dL
BILIRUBIN, DIRECT METHOD: DIAZO WITH SULPHANILIC ACID	0.12	0.00 - 0.25	mg/dL
BILIRUBIN, INDIRECT METHOD: CALCULATED PARAMETER	0.23	0.1 - 1.0	mg/dL
TOTAL PROTEIN METHOD: BIURET REACTION, END POINT	7.1	6.4 - 8.2	g/dL
ALBUMIN	4.3	3.8 - 4.4	g/dL

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METHOD : BROMOCRESOL GREEN			
GLOBULIN	2.8	2.0 - 4.1	g/dL
METHOD: CALCULATED PARAMETER			
ALBUMIN/GLOBULIN RATIO METHOD: CALCULATED PARAMETER	1.5	1.0 - 2.1	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT) METHOD: TRIS BUFFER NO P5P IFCC / SFBC 37° C	21	0 - 31	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT) METHOD: TRIS BUFFER NO P5P IFCC / SFBC 37° C	15	0 - 31	U/L
ALKALINE PHOSPHATASE METHOD: AMP OPTIMISED TO IFCC 37° C	40	39 - 117	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT) METHOD: GAMMA GLUTAMYL-3 CARBOXY-4 NITROANILIDE (IFCC	20	7 - 32	U/L
LACTATE DEHYDROGENASE	323	230 - 460	U/L
BLOOD UREA NITROGEN (BUN), SERUM			
BLOOD UREA NITROGEN METHOD: UREASE KINETIC	11	5.0 - 18.0	mg/dL
CREATININE, SERUM			
CREATININE METHOD: ALKALINE PICRATE NO DEPROTEINIZATION	0.71	0.6 - 1.2	mg/dL
BUN/CREAT RATIO BUN/CREAT RATIO	15.49		
METHOD: CALCULATED PARAMETER			
URIC ACID, SERUM URIC ACID	3.5	2.4 - 5.7	mg/dL
METHOD: URICASE PEROXIDASE WITH ASCORBATE OXIDASE			
TOTAL PROTEIN, SERUM			
TOTAL PROTEIN METHOD: BIURET REACTION, END POINT	7.1	6.4 - 8.3	g/dL
ALBUMIN, SERUM			
ALBUMIN	4.3	3.8 - 4.4	g/dL
METHOD: BROMOCRESOL GREEN			
GLOBULIN			
GLOBULIN	2.8	2.0 - 4.1	g/dL

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ELECTROLYTES (NA/K/CL), SERUM			
SODIUM, SERUM METHOD: ION-SELECTIVE ELECTRODE	139.2	137 - 145	mmo l /L
POTASSIUM, SERUM METHOD: ION-SELECTIVE ELECTRODE	4.73	3.6 - 5.0	mmo l /L
CHLORIDE, SERUM METHOD: ION-SELECTIVE ELECTRODE	100.7	98 - 107	mmo l /L

Interpretation(s)

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

Interpretation(s)

RIVED PREMAINS, 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.

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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 :

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.

III.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

C.HDF > 25% on alternate pattorm (boronate armity chromatography) is recommended for detecting a 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, 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 seen in hypophosphatasia, mainterition, protein dericency, wilson s alsease. Gut is an enzyme found in cell membranes or 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: """ disease.Lower-than-normal levels may be due to: Agammaglobulinemia,Bleeding (hemorrhage),Burns,Glomerulonephritis,Liver disease, Malabsorption,Malnutrition,Nephrotic syndrome,Protein-losing enteropathy etc.Human serum albumin is the most abundant protein in human blood plasma.It is produced in the liver.Albumin constitutes about half of the blood serum protein Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing

enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc BLOOD UREA NITROGEN (BUN), SERUM-Causes of Increased levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism) Causes of decreased level include Liver disease, SIADH.

CREATININE, SERUM-Higher than normal level may be due to:

- Blockage in the urinary tract
- Kidney problems, such as kidney damage or failure, infection, or reduced blood flow

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CODE/NAME & ADDRESS: C000049066

SRL JAIPUR WELLNESS CORPORATE WALK IN
AAKRITI LABS PVT LTD. A-430, AGRASEN MARG

JAIPUR 302017 9314660100 ACCESSION NO: **0251VL000904**PATIENT ID: VIJAF101285251

CLIENT PATIENT ID: 012212100018

AGE/SEX :37 Years Female
DRAWN :10/12/2022 09:01:00
RECEIVED :10/12/2022 14:44:56
REPORTED :10/12/2022 19:23:08

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

ABHA NO

• 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 syndrome

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"""""""" s disease Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.

ALBUMIN, SERUM-Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc.

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SRL JAIPUR WELLNESS CORPORATE WALK IN
AAKRITI LABS PVT LTD. A-430, AGRASEN MARG

<u>Final</u>

JAIPUR 302017 9314660100

Test Report Status

ACCESSION NO: **0251VL000904**PATIENT ID: VIJAF101285251
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Biological Reference Interval Units

CLINICAL PATH - URINALYSIS

Results

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

PHYSICAL EXAMINATION, URINE

COLOR PALE YELLOW

METHOD: GROSS EXAMINATION

APPEARANCE CLEAR

METHOD: GROSS EXAMINATION

CHEMICAL EXAMINATION, URINE

PH 6.0 4.7 - 7.5

METHOD: DOUBLE INDICATOR PRINCIPLE

SPECIFIC GRAVITY 1,020 1,003 - 1,035

METHOD: IONIC CONCENTRATION METHOD

PROTEIN NOT DETECTED NOT DETECTED

METHOD: PROTEIN ERROR OF INDICATORS WITH REFLECTANCE

GLUCOSE NOT DETECTED NOT DETECTED

 ${\tt METHOD}: {\tt GLUCOSE} \ {\tt OXIDASE} \ {\tt PEROXIDASE} \ {\tt /} \ {\tt BENEDICTS}$

KETONES NOT DETECTED NOT DETECTED

 ${\tt METHOD: SODIUM\ NITROPRUSSIDE\ REACTION}$

BLOOD NOT DETECTED NOT DETECTED

METHOD: PEROCIDASE ANTI PEROXIDASE

BILIRUBIN

NOT DETECTED

NOT DETECTED

BILIRUBIN
METHOD: DIPSTICK

UROBILINOGEN NORMAL NORMAL

METHOD: EHRLICH REACTION REFLECTANCE

NITRITE NOT DETECTED NOT DETECTED

METHOD: NITRATE TO NITRITE CONVERSION METHOD

LEUKOCYTE ESTERASE NOT DETECTED NOT DETECTED

MICROSCOPIC EXAMINATION, URINE

RED BLOOD CELLS NOT DETECTED NOT DETECTED /HPF

 ${\tt METHOD}: {\tt MICROSCOPIC} \ {\tt EXAMINATION}$

PUS CELL (WBC'S) 1-2 0-5 /HPF

METHOD : DIPSTICK, MICROSCOPY

EPITHELIAL CELLS 0-1 0-5 /HPF

METHOD: MICROSCOPIC EXAMINATION

CASTS NOT DETECTED

Dr. Akansha Jain Consultant Pathologist



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Test Report Status Final Results Biological Reference Interval Units

METHOD: MICROSCOPIC EXAMINATION

CRYSTALS NOT DETECTED

METHOD: MICROSCOPIC EXAMINATION

METHOD: MICROSCOPIC EXAMINATION

BACTERIA NOT DETECTED NOT DETECTED

YEAST NOT DETECTED NOT DETECTED

Interpretation(s)

Dr. Akansha Jain Consultant Pathologist



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REF. DOCTOR: SELF



PATIENT NAME: VIJAY POORVI

CODE/NAME & ADDRESS: C000049066 SRL JAIPUR WELLNESS CORPORATE WALK IN AAKRITI LABS PVT LTD. A-430, AGRASEN MARG

JAIPUR 302017 9314660100

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

CYTOLOGY

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

PAPANICOLAOU SMEAR

TEST METHOD SAMPLE NOT RECEIVED

Dr. Akansha Jain **Consultant Pathologist**



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Test Report Status Final Results Biological Reference Interval Units

CLINICAL PATH - STOOL ANALYSIS

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

PHYSICAL EXAMINATION, STOOL

COLOUR

METHOD: GROSS EXAMINATION

SAMPLE NOT RECEIVED

Najutu yarir

Dr. Abhishek Sharma Consultant Microbiologist





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SPECIALISED CHEMISTRY - HORMONE

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

THYROID PANEL, SERUM

T3 144.5 60.0 - 181.0 ng/dL

METHOD : CHEMILUMINESCENCE

T4 7.80 4.5 - 10.9 μg/dL

METHOD : CHEMILUMINESCENCE

TSH (ULTRASENSITIVE) 1.608 0.550 - 4.780 μIU/mL

METHOD : CHEMILUMINESCENCE

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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REF. DOCTOR: SELF **PATIENT NAME: VIJAY POORVI**

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

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.

> **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.
- 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.
- 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. Akansha Jain Consultant Pathologist





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