DIAGNOSTIC REPORT

MC-2387

SRL Diagnostics

PATIENT NAME : SHUBHA ANAND KUBAL /168850 **REF. DOCTOR :** SELF

CODE/NAME & ADDRESS : C000138378 ACROFEMI HEALTHCARE LTD (MEDIWHEEL) F-703, LADO SARAI, MEHRAULISOUTH WEST DELHI NEW DELHI 110030 8800465156	ACCESSION NO : **0278WB001609** PATIENT ID : SHUBF010887278 CLIENT PATIENT ID: ABHA NO :	AGE/SEX :35 Years Female DRAWN :11/02/2023 08:54:26 RECEIVED :11/02/2023 08:56:11 REPORTED :13/02/2023 09:46:28

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

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

XRAY-CHEST			
IMPRESSION	NORMAL		
TMT OR ECHO			
TMT OR ECHO	ECHO-ONCE DONE,REFER HARD COPY OF REPORT.		
ECG			
ECG	WITHIN NORMAL LIMITS		
MEDICAL HISTORY			
RELEVANT PRESENT HISTORY	H/O GALLBLADDER POLYP.		
RELEVANT PAST HISTORY	NOT SIGNIFICANT		
RELEVANT PERSONAL HISTORY	NOT SIGNIFICANT		
RELEVANT FAMILY HISTORY	NOT SIGNIFICANT		
HISTORY OF MEDICATIONS	NOT SIGNIFICANT		
ANTHROPOMETRIC DATA & BMI			
HEIGHT IN METERS	1.49		mts
WEIGHT IN KGS.	57		Kgs
BMI	26	BMI & Weight Status as follows: Below 18.5: Underweight 18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese	kg/sqmts
GENERAL EXAMINATION			
PULSE	78/BPM,REGULAR, ALL PERIPHERAL PULSES WELL FELT		
RESPIRATORY RATE	NORMAL		
CARDIOVASCULAR SYSTEM			
BP	98/67		mm/Hg
BASIC EYE EXAMINATION			
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		

Dr.Priya, MD
Consultant Pathologist KMC Reg no -103979

Dr. Asha Prabhakar, MD
Consultant Pathologist / LAB Head KMC Reg no -27246

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Tel : 08047059442

Patient Ref. No. 775000002324570

DIAGNOSTIC REPORT

MC-2387

SRL Diagnostics

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SUMMARY

RELEVANT HISTORY	NOT SIGNIFICANT
RELEVANT GP EXAMINATION FINDINGS	NOT SIGNIFICANT
RELEVANT LAB INVESTIGATIONS	RAISED ESR.
RELEVANT NON PATHOLOGY DIAGNOSTICS	NO ABNORMALITIES DETECTED
REMARKS / RECOMMENDATIONS	CONSULT PHYSICIAN WITH REPORTS.

FITNESS STATUS

FITNESS STATUS	FIT (WITH MEDICAL ADVICE) (AS PER REQUESTED PANEL OF TESTS)

Comments

*NOTE : NON PATHOLOGY TESTS ARE NOT NABL ACCREDITED

Radiologist/Sonologist : Dr. Naveed Ansar Noor , MBBS, MDRD.

Dental Surgeon : Dr. Abdulla Shahzad, BDS, DHM, FAGE, MD(CM).

Consulting Physician : Dr. Riteshraj, MBBS

Consulting Cardiologist: Dr. Nithin Prakash, MBBS, PGDCC.

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MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

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.

****

FITNESS STATUS-Conclusion on an individual's Fitness, which is commented upon mainly for Pre employment cases, is based on multi factorial findings and does not depend on any one single parameter. The final Fitness assigned to a candidate will depend on the Physician's findings and overall judgement on a case to case basis, details of the candidate's past and personal history; as well as the comprehensiveness of the diagnostic panel which has been requested for .These are then further correlated with details of the job under consideration to eventually fit the right man to the right job.
Basis the above, SRL classifies a candidate's Fitness Status into one of the following categories:
• Fit (As per requested panel of tests) – SRL Limited gives the individual a clean chit to join the organization, on the basis of the General Physical Examination and the specific test panel requested for.
• Fit (with medical advice) (As per requested panel of tests) - This indicates that although the candidate can be declared as FIT to join the job, minimal problems have been detected during the Pre- employment examination. Examples of conditions which could fall in this category could be cases of mild reversible medical abnormalities such as height weight disproportions, borderline raised Blood Pressure readings, mildly raised Blood sugar and Blood Lipid levels, Hematuria, etc. Most of these relate to sedentary lifestyles and come under the broad category of life style disorders. The idea is to caution an individual to bring about certain lifestyle changes as well as seek a Physician''s consultation and counseling in order to bring back to normal the mildly deranged parameters. For all purposes the individual is FIT to join the job.
• Fitness on Hold (Temporary Unfit) (As per requested panel of tests) - Candidate's reports are kept on hold when either the diagnostic tests or the physical findings reveal the presence of a medical condition which warrants further tests, counseling and/or specialist opinion, on the basis of which a candidate can either be placed into Fit, Fit (With Medical Advice), or Unfit category. Conditions which may fall into this category could be high blood pressure, abnormal ECG, heart murmurs, abnormal vision, grossly elevated blood sugars, etc.
• Unfit (As per requested panel of tests) - An unfit report by SRL Limited clearly indicates that the individual is not suitable for the respective job profile e.g. total color blindness in color related jobs.

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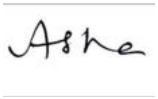
HAEMATOLOGY - CBC

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

BLOOD COUNTS,EDTA WHOLE BLOOD			
HEMOGLOBIN (HB)	13.1	12.0 - 15.0	g/dL
RED BLOOD CELL (RBC) COUNT METHOD : IMPEDANCE	4.57	3.8 - 4.8	mil/µL
WHITE BLOOD CELL (WBC) COUNT	8.00	4.0 - 10.0	thou/µL
PLATELET COUNT METHOD : IMPEDANCE	263	150 - 410	thou/µL
RBC AND PLATELET INDICES			
HEMATOCRIT (PCV)	38.1	36 - 46	%
MEAN CORPUSCULAR VOLUME (MCV) METHOD : CALCULATED	84.0	83 - 101	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH) METHOD : CALCULATED	28.7	27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD : CALCULATED	34.3	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW) METHOD : CALCULATED	13.6	11.6 - 14.0	%
MENTZER INDEX	18.4		
MEAN PLATELET VOLUME (MPV) METHOD : CALCULATED	8.8	6.8 - 10.9	fL
WBC DIFFERENTIAL COUNT			
NEUTROPHILS	59	40 - 80	%
LYMPHOCYTES	31	20 - 40	%
MONOCYTES METHOD : IMPEDANCE + ABSORBANCE	4	2 - 10	%
EOSINOPHILS	5	1 - 6	%
BASOPHILS METHOD : IMPEDANCE + ABSORBANCE	1	0 - 2	%
ABSOLUTE NEUTROPHIL COUNT METHOD : IMPEDANCE + ABSORBANCE	4.72	2.0 - 7.0	thou/µL
ABSOLUTE LYMPHOCYTE COUNT	2.48	1.0 - 3.0	thou/µL



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ABSOLUTE EOSINOPHIL COUNT	0.40	0.02 - 0.50	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.9		

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	**30 High**	0 - 20	mm at 1 hr

METHOD : WESTERGREN METHOD

Interpretation(s)
ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD-**TEST DESCRIPTION** :-
Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automated instruments are available to measure ESR.

ESR is not diagnostic; it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an inflammatory condition.CRP is superior to ESR because it is more sensitive and reflects a more rapid change.
TEST INTERPRETATION
Increase in: Infections, Vasculities, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging.
Finding a very accelerated ESR**(>100 mm/hour)** in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias, Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis).
In pregnancy BRI in first trimester is 0-48 mm/hr(62 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum.
Decreased in: Polycythermia vera, Sickle cell anemia

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

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

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IMMUNOHAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP	TYPE O
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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BIOCHEMISTRY

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

GLUCOSE FASTING,FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR) METHOD : HEXOKINASE	97	74 - 106	mg/dL

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD

HBA1C METHOD : HPLC	5.6	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) METHOD : CALCULATED	114.0	< 116.0	mg/dL

GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR) METHOD : HEXOKINASE	124	70 - 140	mg/dL

LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL METHOD : CHOD-POD	153	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
TRIGLYCERIDES METHOD : GPO - POD METHOD	129	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/= 500 Very High	mg/dL
HDL CHOLESTEROL	52	< 40 Low >/=60 High	mg/dL

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CHOLESTEROL LDL	75	< 100 Optimal 100 - 129 Near or above optimal 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
NON HDL CHOLESTEROL	101	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
VERY LOW DENSITY LIPOPROTEIN	25.8	Desirable value : 10 - 35	mg/dL
CHOL/HDL RATIO	**2.9 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	1.4	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 METHOD : DIAZO METHOD	0.94	UPTO 1.2	mg/dL
BILIRUBIN, DIRECT METHOD : DIAZO METHOD	**0.32 High**	0.00 - 0.30	mg/dL
BILIRUBIN, INDIRECT METHOD : CALCULATED	**0.62 High**	0.00 - 0.60	mg/dL
TOTAL PROTEIN METHOD : BIURET	7.4	6.6 - 8.7	g/dL
ALBUMIN METHOD : BROMOCRESOL GREEN	4.7	3.97 - 4.94	g/dL

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GLOBULIN METHOD : CALCULATED	2.7	2.0 - 4.0 Neonates - Pre Mature: 0.29 - 1.04	g/dL
ALBUMIN/GLOBULIN RATIO METHOD : CALCULATED	1.7	1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT) METHOD : IFCC WITHOUT PYRIDOXAL PHOSPHATE	19	0 - 32	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT) METHOD : IFCC WITHOUT PYRIDOXAL PHOSPHATE	9	0 - 31	U/L
ALKALINE PHOSPHATASE METHOD : IFCC AMP BUFFER	60	35 - 105	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT) METHOD : IFCC	13	5 - 36	U/L
LACTATE DEHYDROGENASE METHOD : IFCC	139	135 - 214	U/L
BLOOD UREA NITROGEN (BUN), SERUM			
BLOOD UREA NITROGEN METHOD : UREASE -GLDH	12	6 - 20	mg/dL
CREATININE, SERUM			
CREATININE METHOD : JAFFE, ALKALINE PICRATE, KINETIC WITH BLANK RATE CORRECTION	0.68	0.50 - 0.90	mg/dL
BUN/CREAT RATIO			
BUN/CREAT RATIO METHOD : CALCULATED	**17.65 High**	5.00 - 15.00	
URIC ACID, SERUM			
URIC ACID METHOD : ENZYMATIC, COLORIMETRIC	4.5	2.4 - 5.7	mg/dL
TOTAL PROTEIN, SERUM			
TOTAL PROTEIN METHOD : BIURET	7.4	6.6 - 8.7	g/dL
ALBUMIN, SERUM			
ALBUMIN	4.7	3.97 - 4.94	g/dL
GLOBULIN			

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Patient Ref. No. 775000002324570

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CODE/NAME & ADDRESS : C000138378 ACROFEMI HEALTHCARE LTD (MEDIWHEEL) F-703, LADO SARAI, MEHRAULISOUTH WEST DELHI NEW DELHI 110030 8800465156	ACCESSION NO : **0278WB001609** PATIENT ID : SHUBF010887278 CLIENT PATIENT ID: ABHA NO :	AGE/SEX :35 Years Female DRAWN :11/02/2023 08:54:26 RECEIVED :11/02/2023 08:56:11 REPORTED :13/02/2023 09:46:28

Test Report Status **Final**	Results	Biological Reference Interval	Units
GLOBULIN	2.7	2.0 - 4.0 Neonates - Pre Mature: 0.29 - 1.04	g/dL
METHOD : CALCULATED			
ELECTROLYTES (NA/K/CL), SERUM			
SODIUM, SERUM	141	136 - 145	mmol/L
METHOD : ISE INDIRECT			
POTASSIUM, SERUM	4.40	3.5 - 5.1	mmol/L
CHLORIDE, SERUM	107	98 - 107	mmol/L
METHOD : ISE INDIRECT			

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 urine.
Increased in
Diabetes mellitus, Cushing' s syndrome (10 – 15%), chronic pancreatitis (30%). Drugs:corticosteroids,phenytoin, estrogen, thiazides.
Decreased in
Pancreatic islet cell disease with increased insulin,insulinoma,adrenocortical insufficiency, hypopituitarism,diffuse liver disease, malignancy (adrenocortical, stomach,fibrosarcoma), infant of a diabetic mother, enzyme deficiency diseases(e.g., galactosemia),Drugs- insulin, ethanol, propranolol; sulfonylureas,tolbutamide, and other oral hypoglycemic agents.
NOTE: While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values), there is wide fluctuation within individuals.Thus, glycosylated hemoglobin(HbA1c) levels are favored to monitor glycemic control.
High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glyosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc.
GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-**Used For**:

1.Evaluating the long-term control of blood glucose concentrations in diabetic patients.
2.Diagnosing diabetes.
3.Identifying patients at increased risk for diabetes (prediabetes).
The ADA recommends measurement of HbA1c (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patients metabolic control has remained continuously within the target range.
1.eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.
2. eAG gives an evaluation of blood glucose levels for the last couple of months.
3. eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c - 46.7

HbA1c Estimation can get affected due to :
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.)

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c.HbF > 25% on alternate paltform (Boronate affinity chromatography) is recommended for testing of HbA1c.Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy
GLUCOSE, POST-PRANDIAL, PLASMA-High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glyosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc.Additional test HbA1c
LIVER FUNCTION PROFILE, SERUM-LIVER FUNCTION PROFILE
Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.
AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.
ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, 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,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
• 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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DIAGNOSTIC REPORT

MC-2387

SRL Diagnostics

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CLINICAL PATH - URINALYSIS

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

PHYSICAL EXAMINATION, URINE

COLOR METHOD : VISUAL EXAMINATION	PALE YELLOW		

CHEMICAL EXAMINATION, URINE

PH METHOD : DOUBLE INDICATOR PRINCIPLE	6.0	4.7 - 7.5	
SPECIFIC GRAVITY METHOD : PKA CHANGE OF POLYELECTROLYTES	1.025	1.003 - 1.035	
PROTEIN METHOD : PROTEIN ERROR OF INDICATORS PRINCIPLE / SULPHOSALICYLIC ACID	NOT DETECTED	NOT DETECTED	
GLUCOSE METHOD : OXIDASE-PEROXIDASE REACTION	NOT DETECTED	NOT DETECTED	
KETONES METHOD : NITROPRUSSIDE METHOD / ROTHERA'S TEST	NOT DETECTED	NOT DETECTED	
BLOOD METHOD : PEROXIDASE-LIKE ACTIVITY OF HEMOGLOBIN	NOT DETECTED	NOT DETECTED	
BILIRUBIN METHOD : DIAZO REACTION	NOT DETECTED	NOT DETECTED	
UROBILINOGEN METHOD : EHRLICH REACTION REFLECTANCE	NORMAL	NORMAL	

MICROSCOPIC EXAMINATION, URINE

RED BLOOD CELLS METHOD : MICROSCOPIC EXAMINATION	NOT DETECTED	NOT DETECTED	/HPF
PUS CELL (WBC'S) METHOD : MICROSCOPIC EXAMINATION	2-3	0-5	/HPF
EPITHELIAL CELLS METHOD : MICROSCOPIC EXAMINATION	**5-7**	0-5	/HPF
CASTS METHOD : MICROSCOPIC EXAMINATION	NOT DETECTED		
CRYSTALS METHOD : MICROSCOPIC EXAMINATION	NOT DETECTED		

Interpretation(s)

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CYTOLOGY

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

PAPANICOLAOU SMEAR

MICROSCOPY

P- 51/23

MATERIAL: Conventional cervical smear.

MICROSCOPIC OBSERVATIONS:

1. Adequacy of sample - Smears are satisfactory for evaluation.

2. Smears comprise of intermediate, superficial squamous cells.

   Negative for intraepithelial lesion or malignancy (NILM).

   Infection - Trichomonas or candida not seen. Lactobacilli noted.

   Reactive changes - Mild inflammation noted.

   Glandular cells - Endocervical cells seen.

3. Other malignant tumor - None.

IMPRESSION: SATISFACTORY FOR EVALUATION.
NEGATIVE FOR INTRAEPITHELIAL LESION OR MALIGNANCY.

2 Smears received, 1 smear retained, 1 smear issued to patient.

Note:
2014 Bethesda system for reporting cervical cytology.
Please note Papanicolaou smear study is a screening procedure for cervical cancer with inherent false negative result. Hence should be interpreted in correlation with clinical findings.

METHOD : LIGHT MICROSCOPY

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CLINICAL PATH - STOOL ANALYSIS

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

PHYSICAL EXAMINATION,STOOL

COLOUR	SAMPLE NOT RECEIVED		
METHOD : VISUAL EXAMINATION			

Dr.Vinitha M
Consultant Microbiologist

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SPECIALISED CHEMISTRY - HORMONE

MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE

THYROID PANEL, SERUM

T3	96.28	80.00 - 200.00	ng/dL
METHOD : ELECTROCHEMILUMINESCENCE			
T4	7.37	5.10 - 14.10	µg/dL
METHOD : ELECTROCHEMILUMINESCENCE			
TSH (ULTRASENSITIVE)	1.090	Non Pregnant Women 0.27 - 4.20 Pregnant Women 1st Trimester: 0.33 - 4.59 2nd Trimester: 0.35 - 4.10 3rd Trimester: 0.21 - 3.15	µIU/mL
METHOD : ELECTROCHEMILUMINESCENCE			

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

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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 duriing pregnancy and Postpartum, 2011.
NOTE: It is advisable to detect Free T3,FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4.TSH is not affected by variation in thyroid - binding protein. TSH has a diurnal rhythm, with peaks at 2:00 - 4:00 a.m. And troughs at 5:00 - 6:00 p.m. With ultradian variations.

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

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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.
9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

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