



CLIENT CODE : C000040663

CLIENT'S NAME AND ADDRESS :

RELIANCE GENERAL INSURANCE CO. LTD. (CREDIT CLIENT)
5TH FLOOR, CHINTAMANI AVENUE, NEXT TO VIRWANI INDUSTRIAL EST
GOREGAON (EAST),
MUMBAI 400063
MAHARASHTRA INDIA
11-30913454 9818484089

SRL LIMITED

M R Square, Sy. No. 7/3, Brookfield Main Road, Opp. Main Hyper City,
BANGLORE, 560060
KARNATAKA, INDIA
Tel : 080-41254661,62,63,64, Fax : CIN - U74899PB1995PLC045956
Email : wellness.itpl@srl.in

PATIENT NAME : KRITI JAIN

PATIENT ID :

ACCESSION NO : **0075QH000264** AGE : 24 Years SEX : Female DATE OF BIRTH : 26/07/1993

DRAWN : RECEIVED : 05/08/2017 08:40 REPORTED : 06/08/2017 09:47

REFERRING DOCTOR : SELF

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Test Report Status	Final	Results	Biological Reference Interval	Units
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**RELIANCE ANNUAL HEALTH CHECKS PACKAGE
FOR FICO**

MEDICAL EXAMINATION REPORT

TYPE OF EXAMINATION ANNUAL

COMPLETE BLOOD COUNT

RED BLOOD CELL COUNT	4.71	3.8 - 4.8	mil/ μ L
HEMOGLOBIN	13.4	12.0 - 15.0	g/dL
HEMATOCRIT	38.5	36 - 46	%
MEAN CORPUSCULAR VOL	82.0	Low 83 - 101	fL
MEAN CORPUSCULAR HGB.	28.5	27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	33.9	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH	14.0	11.6 - 14.0	%
PLATELET COUNT	271	150 - 410	thou/ μ L
MEAN PLATELET VOLUME	8.0	6.8 - 10.9	fL
WHITE BLOOD CELL COUNT	5.10	4.0 - 10.0	thou/ μ L

WBC DIFFERENTIAL COUNT

SEGMENTED NEUTROPHILS	58	40 - 80	%
METHOD : MICROSCOPIC EXAMINATION			
EOSINOPHILS	03	1 - 6	%
METHOD : MICROSCOPIC EXAMINATION			
LYMPHOCYTES	35	20 - 40	%
METHOD : MICROSCOPIC EXAMINATION			
MONOCYTES	04	2 - 10	%
METHOD : MICROSCOPIC EXAMINATION			
BASOPHILS	00	< 1 - 2	%
METHOD : MICROSCOPIC EXAMINATION			

DIFFERENTIAL COUNT PERFORMED ON: EDTA SMEAR

MORPHOLOGY

RBC PREDOMINANTLY NORMOCYTIC NORMOCHROMIC, OCCASIONAL
MICROCYTIC HYPOCHROMIC RBCs SEEN

METHOD : MICROSCOPIC EXAMINATION

WBC NORMAL IN COUNT, MORPHOLOGY AND DISTRIBUTION

METHOD : MICROSCOPIC EXAMINATION

PLATELETS ADEQUATE
NO HEMOPARASITES SEEN

METHOD : MICROSCOPIC EXAMINATION

IMPRESSION NORMOCYTIC NORMOCHROMIC BLOOD PICTURE



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ERYTHRO SEDIMENTATION RATE, BLOOD

SEDIMENTATION RATE (ESR) 10 0 - 20 mm at 1 hr

GLUCOSE, FASTING, PLASMA

GLUCOSE, FASTING, PLASMA 89 74 - 99 mg/dL

GLUCOSE, POST-PRANDIAL, PLASMA

GLUCOSE, POST-PRANDIAL, PLASMA 95 74 - 140 mg/dL

CORONARY RISK PROFILE (LIPID PROFILE), SERUM

CHOLESTEROL **208** **High** < 200 Desirable
200 - 239 Borderline High
>= 240 High mg/dL

TRIGLYCERIDES 83 < 150 Normal
150 - 199
Borderline High
200 - 499 High
>=500 Very High mg/dL

HDL CHOLESTEROL **61** **High** < 40 Low
>=60 High mg/dL

DIRECT LDL CHOLESTEROL **132** **High** < 100 Optimal
100 - 129
Near or above optimal
130 - 159
Borderline High
160 - 189
High
>= 190
Very High mg/dL

CHOL/HDL RATIO 3.4 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 2.2 0.5 - 3.0 Desirable/Low Risk
3.1 - 6.0 Borderline/Moderate Risk
>6.0 High Risk

VERY LOW DENSITY LIPOPROTEIN 16.6 <= 30.0 mg/dL

SERUM BLOOD UREA NITROGEN

BLOOD UREA NITROGEN 7 6 - 20 mg/dL

CREATININE, SERUM

CREATININE 0.81 0.60 - 1.10 mg/dL

URIC ACID, SERUM

URIC ACID 5.2 2.6 - 6.0 mg/dL

METHOD : SPECTROPHOTOMETRY, URICASE

BILIRUBIN, TOTAL, SERUM

BILIRUBIN, TOTAL 0.70 0.2 - 1.0 mg/dL

ASPARTATE AMINOTRANSFERASE, SERUM



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ASPARTATE AMINOTRANSFERASE (AST/SGOT) **10** **Low** 15 - 37 U/L

METHOD : SPECTROPHOTOMETRY, UV WITH PYRIDOXAL -5-PHOSPHATE

ALANINE AMINOTRANSFERASE, SERUM

ALANINE AMINOTRANSFERASE (ALT/SGPT) 12 < 34.0 U/L

METHOD : SPECTROPHOTOMETRY, UV WITH PYRIDOXAL -5-PHOSPHATE

URINALYSIS

COLOR	PALE YELLOW		
APPEARANCE	CLEAR		
PH	7.5	4.7 - 7.5	
SPECIFIC GRAVITY	1.015	1.003 - 1.035	
GLUCOSE	NOT DETECTED		
PROTEIN	NOT DETECTED	NOT DETECTED	
KETONES	NOT DETECTED	NOT DETECTED	
BLOOD	NOT DETECTED	NOT DETECTED	
BILIRUBIN	NOT DETECTED	NOT DETECTED	
UROBILINOGEN	NORMAL	NORMAL	
NITRITE	NOT DETECTED	NOT DETECTED	
WBC	3-5	0-5	/HPF
EPITHELIAL CELLS	8-10	0-5	/HPF
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
CASTS	NOT DETECTED		
CRYSTALS	NOT DETECTED	NOT DETECTED	
BACTERIA	NOT DETECTED	NOT DETECTED	
REMARKS	LEUCOCYTE ESTERASE : NEGATIVE		

TOTAL TSH, SERUM

TSH 3RD GENERATION 0.871 0.55 - 4.78 μ IU/mL

METHOD : CHEMILUMINESCENCE

ELECTROCARDIOGRAM

ECG WITHIN NORMAL LIMITS

MEDICAL HISTORY

RELEVANT PRESENT HISTORY	NOT SIGNIFICANT
RELEVANT PAST HISTORY	NOT SIGNIFICANT
RELEVANT PERSONAL HISTORY	NOT SIGNIFICANT
RELEVANT FAMILY HISTORY	NOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS	1.68	mts
WEIGHT IN KGS.	62	Kgs



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BMI 22 BMI & Weight Status as follows: kg/sqmts
Below 18.5: Underweight
18.5 - 24.9: Normal
25.0 - 29.9: Overweight
30.0 and Above: Obese

GENERAL EXAMINATION

BLOOD PRESSURE 120/80
PULSE REGULAR, ALL PERIPHERAL PULSES WELL FELT
RESPIRATORY RATE NORMAL
LYMPHONODE NORMAL
EDEMA NORMAL

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

SUMMARY

RELEVANT HISTORY NOT SIGNIFICANT
RELEVANT GP EXAMINATION FINDINGS NOT SIGNIFICANT
RELEVANT LAB INVESTIGATIONS WITHIN NORMAL LIMITS
RELEVANT NON PATHOLOGY DIAGNOSIS NO ABNORMALITIES DETECTED
REMARKS / RECOMMENDATIONS NONE

Comments

*NOTE: NON PATH TEST ARE REVIEWED BY
Consultant Physician: Dr. Vijayalakshmi MBBS,MD.
Radiologist : Dr.Thilak Babu , MBBS, DMRD
Dental Surgeon : Dr. Mrudula Veginati , BDS.

Interpretation(s)

COMPLETE BLOOD COUNT-

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.

TEST METHOD: Spectrophotometric/ Electronic Impedence/ Calculation

ERYTHRO SEDIMENTATION RATE, BLOOD-

Erythrocyte sedimentation rate (ESR) is a non-specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants (e.g. pyogenic infections, inflammation and malignancies). The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week post partum. ESR is influenced by age, sex, menstrual cycle and drugs (eg. corticosteroids, contraceptives). It is especially low (0 -1mm) in polycythaemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis or sickle cells.

GLUCOSE, FASTING, PLASMA-

ADA 2012 guidelines for adults as follows:

Pre-diabetics: 100 - 125 mg/dL

Diabetic: > or = 126 mg/dL

(Ref: Tietz 4th Edition & ADA 2012 Guidelines)

CORONARY RISK PROFILE (LIPID PROFILE), SERUM-

Serum cholesterol is a blood test that can provide valuable information for the risk of coronary artery disease This test can help determine your risk of the build up of plaques in your arteries that can lead to narrowed or blocked arteries throughout your body (atherosclerosis). High cholesterol levels usually don't cause any signs or symptoms, so a



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cholesterol test is an important tool. High cholesterol levels often are a significant risk factor for heart disease and important for diagnosis of hyperlipoproteinemia, atherosclerosis, hepatic and thyroid diseases.

Serum Triglyceride are a type of fat in the blood. When you eat, your body converts any calories it doesn't need into triglycerides, which are stored in fat cells. High triglyceride levels are associated with several factors, including being overweight, eating too many sweets or drinking too much alcohol, smoking, being sedentary, or having diabetes with elevated blood sugar levels. Analysis has proven useful in the diagnosis and treatment of patients with diabetes mellitus, nephrosis, liver obstruction, other diseases involving lipid metabolism, and various endocrine disorders. In conjunction with high density lipoprotein and total serum cholesterol, a triglyceride determination provides valuable information for the assessment of coronary heart disease risk. It is done in fasting state.

High-density lipoprotein (HDL) cholesterol. This is sometimes called the "good" cholesterol because it helps carry away LDL cholesterol, thus keeping arteries open and blood flowing more freely. HDL cholesterol is inversely related to the risk for cardiovascular disease. It increases following regular exercise, moderate alcohol consumption and with oral estrogen therapy. Decreased levels are associated with obesity, stress, cigarette smoking and diabetes mellitus.

SERUM LDL The small dense LDL test can be used to determine cardiovascular risk in individuals with metabolic syndrome or established/progressing coronary artery disease, individuals with triglyceride levels between 70 and 140 mg/dL, as well as individuals with a diet high in trans-fat or carbohydrates. Elevated sdLDL levels are associated with metabolic syndrome and an 'atherogenic lipoprotein profile', and are a strong, independent predictor of cardiovascular disease. Elevated levels of LDL arise from multiple sources. A major factor is sedentary lifestyle with a diet high in saturated fat. Insulin-resistance and pre-diabetes have also been implicated, as has genetic predisposition. Measurement of sdLDL allows the clinician to get a more comprehensive picture of lipid risk factors and tailor treatment accordingly. Reducing LDL levels will reduce the risk of CVD and MI.

Recommendations:

Results of Lipids should always be interpreted in conjunction with the patient's medical history, clinical presentation and other findings.

NON FASTING LIPID PROFILE includes Total Cholesterol, HDL Cholesterol and calculated non-HDL Cholesterol. It does not include triglycerides and may be best used in patients for whom fasting is difficult.

SERUM BLOOD UREA NITROGEN-Causes of Increased levels

Pre renal

- High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal

- Renal Failure

Post Renal

- Malignancy, Nephrolithiasis, Prostatism

Causes of decreased levels

- 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

BILIRUBIN, TOTAL, 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 result 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).

An elevated bilirubin level in a newborn may be temporary and resolve itself within a few days to two weeks. However, if the bilirubin level is above a critical threshold or rapidly increases, an investigation of the cause is needed so appropriate treatment can be initiated.

Source:

1) Teitz

2) Wallach's interpretation of diagnostic tests, 9th ed

ASPARTATE AMINOTRANSFERASE, SERUM-

Aminotransferase (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.

ALANINE AMINOTRANSFERASE, SERUM-

Alanine aminotransferase (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.

URINALYSIS-

Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain



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medications.

Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.

Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.

Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.

Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.

pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food can affect the pH of urine.

Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus.

Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.

Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of hemolytic anemia

TOTAL TSH, SERUM-

Below mentioned are the guidelines for Pregnancy related reference ranges for TSH.

Levels in Pregnancy	TSH (µIU/mL)
First Trimester	0.1 - 2.5
2nd Trimester	0.2 - 3.0
3rd Trimester	0.3 - 3.0

NOTE: TSH concentrations in apparently normal euthyroid subjects are known to be highly skewed, with a strong tailed distribution towards higher TSH values. This is well documented in the pediatric population including the infant age group.

ELECTROCARDIOGRAM-

'Wellness consultation for the above reports will be provided on select dates at your office location. In case you miss your onsite check up, you may visit any of SRLs wellness centres in your city at a subsequent date by appointment.'

****End Of Report****

Please visit www.srlworld.com for related Test Information for this accession

Dr. Rojaramani Potluri
Lab Head