

Diagnostics

SRL Ltd 154/9, BANNERGHATTA ROAD, OPP. IIM-B, BANGALORE, 560076 KARNATAKA, INDIA Tel: 80-66214444, Fax: CIN - U74899PB1995PLC045956

CLIENT CODE: C000027810 CLIENT'S NAME AND ADDRESS:
FHSL BG ROAD - OPD
SURVEY NO. 154/9, OPP. IIM-B,
BANNERGHATTA ROAD,
BANGALORE 560020
KARNATAKA INDIA
80-66214444

PATIENT NAME: T NAGARANI

0081VB008228

AGE: 59 Years

SEX: Female

DRAWN: 10/02/2022 12:09

RECEIVED: 10/02/2022 12:08

REPORTED:

10/02/2022 14:36

PATIENT ID : FH.11530439

REFERRING DOCTOR: DR. Suresh Babu

CLIENT PATIENT ID: UID:11530439

CLINICAL INFORMATION:

UID:11530439 REQNO-4142607

OPD-OPD

ACCESSION NO:

BILLNO-1113220PCS031271 BILLNO-1113220PCS031271

Test Report Status <u>Final</u>	Results	Biological Reference Interval Units	
LIVER FUNCTION TEST			
* ASPARTATE AMINOTRANSFERASE, SERUM			
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	15	Upto 32	U/L
ALANINE AMINOTRANSFERASE, SERUM		W 1 22	11/1
ALANINE AMINOTRANSFERASE (ALT/SGPT)	17	Upto 33	U/L
* GAMMA GLUTAMYL TRANSFERASE, SERUM			U/L
GAMMA GLUTAMYL TRANSFERASE (GGT)	16	< 40	0/2
BILIRUBIN, TOTAL, SERUM		Upto 1.2	mg/dL
BILIRUBIN, TOTAL	0.24	υριο 1.2	
BILIRUBIN, DIRECT, SERUM	0.40	0.0 - 0.2	mg/dL
BILIRUBIN, DIRECT	0.10	0.0 0.2	
ALKALINE PHOSPHATASE, SERUM	0.0	35 - 104	U/L
ALKALINE PHOSPHATASE	96	35 30	
* TOTAL PROTEIN, SERUM	7.2	6.0 - 8.0	g/dL
TOTAL PROTEIN	7.2	3.0	
* ALBUMIN+GLOBULIN+A/G RATIO, SERUM	0.00	3.97 - 4.94	g/dL
ALBUMIN	4.1	2.0 - 4.0	g/dL
GLOBULIN	3.1	210	
METHOD : CALCULATED PARAMETER	1.3		RATI
ALBUMIN/GLOBULIN RATIO	1.0		
METHOD : CALCULATED PARAMETER			

ASPARTATE AMINOTRANSFERASE, SERUMAminotransferase (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 can kidney failure, hemolytic anemia, pancreatitis, hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.

ALANINE AMINOTRANSFERASE, SERUMAlanine 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, he amount of this enzyme in the blood. ALT is found mainly in the liver.

ALANINE AMINOTRANSFERASE, SERUMAlanine 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, in 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 muscles, and pancreas. It is commonly measured as a part of a diagnostic evaluation of hie ducts, cirrhosis.

hepatitis, sometimes due to a viral infection, ischemia to the liver, chronic hepatitis, obstruction of bile ducts, cirrhosis.

GAMMA GLUTAMYL TRANSFERASE, SERUMGAMMA GLUTAMYL TRANSFERASE, SERUMGamma plutamyl transferase (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

Gamma glutamyl transferase (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 leading intention, colors and pancreas are supported by the course of cormal enzyme and leading intention, colors and pancreas. 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 ac



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PATIENT NAME: T NAGARANI

PATIENT ID:

FH.1153

ACCESSION NO:

0081VB008228

AGE: 59 Years SEX: Female

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CLIENT PATIENT ID: UID:115304

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UID:11530439 REQNO-4142607

OPD-OPD

BILLNO-1113220PCS031271 BILLNO-1113220PCS031271

Test Report Status

Final

Results

Biological Reference Interval Uni

Serum gamma-glutamyl transferase (GGT) has been widely used as an index of liver dysfunction. Elevated serum GGT activity can be found in diseases of the liver dysfunction. m, and pancreas . Conditions that increase serum GGT are obstructive liver disease, high alcohol consumption, and use of enzyme-inducing drugs etc. 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 myellow discoloration in jaundice. Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excreobstruction 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 three rapidly increases, an investigation of the cause is needed so appropriate treatment can be initiated.

Source: Wallach"s Interpretation of Diagnostic tests, 9th ed2) Wallach"s interpretation of diagnostic tests, 9th ed BILIRUBIN, DIRECT, SERUM-

Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) 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, turned 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, turned 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. Scarring of the bile ducts.

Source: Tietz Text book of Clinical Chemistry & Molecular Diagnostics, 4th ed

Alkaline phosphatase (ALP) is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bile ducts, and bone. Elevated Alk Phosphaqtase 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.

Serum total protein, also known as total protein, is a blochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of a

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, I

syndrome, Protein-losing enteropathy etc. ALBUMIN+GLOBULIN+A/G RATIO, SERUM-

ALBUMIN+GLOBULIN+A/G RATIO, 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

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

BIO CHEMISTRY

CALCIUM, SERUM

CALCIUM

9.3

8.6 - 10.0

mg

* POTASSIUM, SERUM

POTASSIUM

4.12

3.5 - 5.1

mr

* SODIUM. SERUM

No. MC-2284

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PATIENT NAME: T NAGARANI

PATIENT ID : FH.115

ACCESSION NO:

0081VB008228

59 Years AGE:

SEX: Female

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OPD-OPD

BILLNO-1113220PCS031271 BILLNO-1113220PCS031271

Test Report Status Final SODIUM	Final	Results	Biological Reference Interval	Units
		141	126 145	nmol/L

Interpretation(s)
CALCIUM, SERUM-

Commom causes of decreased value of calcium (hypocalcemia) are chronic renal failure, hypomagnesemia and hypoalbuminemia.

Hypercalcemia (increased value of calcium) can be caused by increased intestinal absorbtion (vitamin d intoxication), increased skeletal reasorption (immobilization), or a combination of mechanisms (primary hyperparathyroidism). Primary hyperparathyroidism and malignancy accounts for 90-95% of all cases of

Values of total calcium is affected by serum proteins, particularly albumin thus, latter's value should be taken into account when interpreting serum calcium levels. The following regression equation may be helpful.

Corrected total calcium (mg/dl) = total calcium (mg/dl) + 0.8 (4- albumin [g/dl])*

because regression equations vary among group of patients in different physiological and pathological conditions, mathematical corrections are only important source of preanalytical error in the measurement of calcium is prolonged torniquet application during sampling. Thus, this along with fist clench POTASSIUM, SERUM-Hypokalemia (low K) is common in vomiting, diarrhea, alcoholism, folic acid deficiency and primary aldosteronism. Hyperkalemia may be seen in end-stage renal failure,

molysis, trauma, Addison's disease, metabolic acidosis, acute starvation, dehydration, and with rapid K infusion. SODIUM, SERUM-

Increased in dehydration, cushing's syndrome, aldosteronism; Decreased in Addison's disease, hypopituitarism, liver disease.

EIA - INFECTIOUS SECTION

* HEPATITIS C ANTIBODIES, SERUM

HEPATITIS C ANTIBODIES

NON REACTIVE

NON REACTIVE

PATIENT VALUE

0.07

< 1.00 (Non Reactive)

S/CO

> or = 1.00

(Reactive)

* HIV 4TH GEN ASSAY (P24AG + HIV AB), SERUM

HIV 4TH GEN ASSAY (P24AG + HIV AB)

NON REACTIVE

NON REACTIVE

METHOD: CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY (CMIA)

* HEPATITIS B SURFACE ANTIGEN, SERUM

HEPATITIS B SURFACE ANTIGEN

NON REACTIVE

NON REACTIVE

PATIENT VALUE

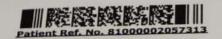
0.22

< 1.00 Non-Reactive

S/CO

METHOD: CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY (CMIA)

> or = 1.00 Reactive





FH.115304

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154/9, BANNERGHATTA ROAD, OPP. IIM-B, BANGALORE, 560076 KARNATAKA, INDIA Tel: 80-66214444, Fax:

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PATIENT NAME: T NAGARANI

ACCESSION NO: 0081VB008228 AGE: 59 Years SEX: Female

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REFERRING DOCTOR: DR. Suresh Babu

CLINICAL INFORMATION:

UID:11530439 REQNO-4142607

OPD-OPD

BILLNO-1113220PCS031271 BILLNO-1113220PCS031271

Test Report Status

Final

Results

Biological Reference Interval

PATIENT ID:

CLIENT PATIENT ID: UID:11530439

Units

HEPATITIS C ANTIBODIES, SERUM-Hepatitis C Virus (HCV) is a blood borne flavivirus. It is one of the most important causes of post-blood transfusion as well as commacquired non-A non-B hepatitis and chronic liver failure. Although the majority of infected individuals may be asymptomatic, HCV infection may develop into chronic hepatitis, cirrhosis and/or increased risk of hepatocellular carcinoma.

Notes & Limitations:

- HCV antibody is typically not detected until approximately 14 weeks after infection (or 5 weeks after appearance of the first blochemical marker of illness) and is almost always detectable by the late convalescent stage of infection.

- A negative result may also be observed due to loss of HCV antigen, years following resolution of infection. Infants born to hepatitis C infected mothers may have delayed seroconversion to anti-HCV. Hence a negative result should be evaluated cautiously with respectional findings. It is to be noted that absence of HCV antibodies after 14 weeks of exposure is strong evidence against HCV infection.

- Presence of HCV antibodies does not imply an active Hepatitis C infection but is indicative of both past and/or recent infection. It has been reported that as many as 90 of individuals receiving intravenous commercial immunoglobulin test falsely positive for HCV antibody. Also, patients with autoimmune liver disease may show a false positive for HCV antibody result. Hence it is advisable to confirm a positive antibody result with a supplemental test. A positive result when followed by a positive supplemental test HCV-RNA-PCR) suggests active hepatitis C infection.

HIV 4TH GEN ASSAY (P24AG + HIV AB), SERUM-Acquired immunoglobic proves your forme (AIDS) is caused by 2 types of human immunoglobic proves your forme (AIDS) is caused by 2 types of human immunoglobic proves your forme (AIDS) is caused by 2 types of human immunoglobic proves your formed (AIDS) is caused by 2 types of human immunoglobic proves your formed (AIDS) is caused by 2 types of human immunoglobic proves your formed (AIDS) is caused by 2 types of human immunoglobic proves your formed (AIDS) is caused by 2 types of human immunoglobic proves your formed (AIDS) is caused by 2 types of human immunoglobic proves your formed (AIDS) is caused by 2 types of human immunoglobic proves your formed (AIDS) is caused by 2 types of human immunoglobic proves your formed (AIDS) is caused by 2 types of human immu

HIV 4TH GEN ASSAY (P24AG + HIV AB), SERUM-Acquired immunodeficiency syndrome (AIDS) is caused by 2 types of human immunodeficiency viruses, collectively designated HIV. HIV is transmitted by sexual contact exposure to blood or blood products, and prenatal infection of a fetus or perinatal infection of a newborn.

Phylogenetic analysis classifies HIV-1 into groups M (major), N (non-M, non-O), and O (outlier).HIV-2 is similar to HIV-1 in its structural morphology, genomic organizated tropism, in vitro cytopathogenicity, transmission routes, and ability to cause AIDS. However, HIV-2 is less pathogenic than HIV-1.HIV-2 infections have a longer late period with slower progression to disease, lower viral titers, and lower rates of vertical and horizontal transmission. HIV-2 is endemic to West Africa but HIV-2 infection a low frequency compared to HIV-1, have been identified in the USA, Europe, Asia, and other regions of Africa. India predominantly has HIV-1M subtype C.

The test used is the 4th generation assay that detects HIV 1 P24 antigen and HIV 1/2 antibodies. This leads to improved sensitivity and, therefore, a shorter diagnosti window as compared to 3rd generation anti-HIV assays.

If HIV reactive result is obtained, confirmation of HIV antibody status is done using 2 more antibody tests (as per NACO guidelines-Strategy III algorithm). If indicated serostatus may be confirmed by repeating antibody test on fresh specimen or HIV-1 Western Blot (Immunoblot) Assay (SRL test code #3012) and HIV DNA detector (test code #9885B).

test code #963B).

In case of HIV reactive by one method and non reactive by other two methods, results need to be correlated with the clinical history of the patient. As per NACO guide result may be interpreted as "Negative" for low risk individuals and "Indeterminate" in case of high risk individuals.

For tests reported/interpreted as 'Indeterminate, testing should be repeated on a second fresh specimen after 14-28 days. In case the serological results continue to be indeterminate, HIV Western blot /PCR is recommended.

Antibody tests may give false negative results during the window period, an interval of 3 weeks to 6 months between the time of HIV infection and the production of measurable antibodies to HIV seroconversion. Most people develop detectable antibodies approximately 30 days after infection, although some seroconvert later. The majority of people (97%) have detectable antibodies by three months after HIV infection; a 6-month window is extremely rare with modern antibody testing
 False negative results can occur in patients with X-linked agammaglobulinemia. False positive results can occur in autoimmune disorders, alcoholic hepatitis, multiple pregnancies.

pregnancies.

- Early antiretroviral therapy during the window period may alter antibody responses. This does not apply to individuals undergoing treatment with post-exposure prophylaxis (PEP).

• A positive HIV result in an infant <18 months of age may not reflect the infant's HIV infection status. HIV antibodies persist in the sera of infants upto 18 months of a due to transplacentally acquired maternal antibodies. HIV PCR testing is recommended in this age group for diagnosis.

• The presence of HIV antigen or antibodies to HIV is not a diagnosis of AIDS.

• For diagnostic purposes, the results should always be assessed in conjunction with the patient's medical history, clinical examination and other findings.

HEPATITIS B SURFACE ANTIGEN, SERUMHepatitis B is caused by infection with UPV.

Hepatitis B is caused by infection with HBV, a enveloped DNA agent that is classified as hepadnavirus. This test detects the presence of viral surface antigen (HbsAg) in serum sample and is indicative of an active HBV infection, either acute or chronic.

Test Utility:
HbsAg is the first serologic marker appearing in the serum 6-16 weeks following hepatitis B viral infection. In typical HBV infection, HBsAg will be detected 2-4 weeks the liver enzyme levels (ALT) become abnormal and 3-5 weeks following hepatitis B viral infection. In typical HBV infection, HBsAg will be detected 2-4 weeks

Patient Ref. No. 81000002057313



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ACCESSION NO:

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AGE : 59 Years

SEX: Female

FH.1:

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REFERRING DOCTOR: DR. Suresh Babu

CLIENT PATIENT ID: UID: 1153

CLINICAL INFORMATION:

UID:11530439 REQNO-4142607

OPD-OPD

BILLNO-1113220PCS031271 BILLNO-1113220PCS031271

Test Report Status

Final

Results

Biological Reference Interval

Unit

For diagnostic purposes, results should be used in conjunction with patient history and other hepatitis markers for diagnosis of acute or chronic infection. If the arresults are inconsistent with clinical evidence, additional testing is suggested to confirm the result.
 HBsAg detection will only indicate the presence of surface antigens in the serum and should not be used as the sole criteria for diagnosis, staging or monitoring of infection This test may be negative during "window period"" i.e. after disappearance of anti-HBs.
 The current assay being a highly sensitive test, may yield a small percentage of false positive reports. Hence all HbsAg positive specimens should be confirmed with assay based upon Neutralisation of Human anti Hepatitis B Surface antibody.

SPECIALISED CHEMISTRY - HORMONE

* TSH 3RD GENERATION ULTRA(TSH3 - UL), SERUM

TSH 3RD GENERATION

3.010

Non Pregnant Women

µIU/mL

0.27 - 4.20

Pregnant Women 1st Trimester: 0.33 - 4.59

2nd Trimester: 0.35 - 4.10 3rd Trimester: 0.21 - 3.15

TSH 3RD GENERATION ULTRA(TSH3 - UL), SERUM-Below mentioned are the guidelines for Pregnancy related reference ranges for TSH.

Levels in Pregnancy

(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 as the strong tailed distribution towards higher TSH values. documented in the pediatric population including the infant age group.

End Of Report

Please visit www.srlworld.com for related Test Information for this accession TEST MARKED WITH '*' ARE OUTSIDE THE NABL ACCREDITED SCOPE OF THE LABORATORY.

Dr. Prajwal A, MD