



CLIENT CODE: C000138362 CLIENT'S NAME AND ADDRESS: ACROFEMI HEALTHCARE LTD (MEDIWHEEL)

F-703, LADO SARAI, MEHRAULI SOUTH WEST DELHI NEW DELHI 110030 DELHI INDIA 8800465156 SRL Ltd

Ground floor 365/6, Aaj Ka Aanand building, Shivaji Nagar

PUNE, 411005

MAHARASHTRA, INDIA

Tel: 9111591115, Fax: 020 30251212 CIN - U74899PB1995PLC045956 Email: customercare.pune@srl.in

PATIENT NAME: AMARJEET SINGH PATIENT ID: AMARM21028530

ACCESSION NO: 0030VI002512 AGE: 37 Years SEX: Male ABHA NO:

DRAWN: RECEIVED: 10-09-2022 08:51 REPORTED: 12-09-2022 14:43

REFERRING DOCTOR: SELF CLIENT PATIENT ID:

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

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN	15.3		13.0 - 17.0	g/dL
RED BLOOD CELL COUNT	4.84		4.5 - 5.5	mil/μL
WHITE BLOOD CELL COUNT	6.80		4.0 - 10.0	thou/µL
PLATELET COUNT	220		150 - 410	thou/µL
RBC AND PLATELET INDICES				
HEMATOCRIT	47.3		40 - 50	%
MEAN CORPUSCULAR VOL	98.0		83 - 101	f∟
MEAN CORPUSCULAR HGB.	31.6		27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN	32.4		31.5 - 34.5	g/dL
CONCENTRATION MENTZER INDEX	20.3			
RED CELL DISTRIBUTION WIDTH	11.3	Low	11.6 - 14.0	%
MEAN PLATELET VOLUME	10.5	Lon	6.8 - 10.9	70 f ∟
WBC DIFFERENTIAL COUNT - NLR	10.5		0.0 - 10.9	IL.
SEGMENTED NEUTROPHILS	48		40 - 80	%
ABSOLUTE NEUTROPHIL COUNT	3.26		2.0 - 7.0	τhou/μL
LYMPHOCYTES	43	High	20 - 40	%
ABSOLUTE LYMPHOCYTE COUNT	2.92	ing.	1.0 - 3.0	
			1.0 - 3.0	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.1			0.4
EOSINOPHILS	4		1 - 6	%
ABSOLUTE EOSINOPHIL COUNT	0.27		0.02 - 0.50	thou/µL
MONOCYTES	5		2 - 10	%
ABSOLUTE MONOCYTE COUNT	0.34		0.2 - 1.0	thou/µL

DIFFERENTIAL COUNT PERFORMED ON: EDTA SMEAR

MORPHOLOGY

ABSOLUTE BASOPHIL COUNT

BASOPHILS

REMARKS RBCS: PREDOMINANTLY NORMOCYTIC NORMOCHROMIC.

0

0.00

WBCS: WBCS ARE NORMAL IN NUMBER & MORPHOLOGY.

0 - 2

Low 0.02 - 0.10

PLATELETS: ADEQUATE ON PERIPHERAL SMEAR.

ERYTHRO SEDIMENTATION RATE, BLOOD





%

thou/µL





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SEDIMENTATION RATE	(ESR)	8	0 - 14	mm at 1 hr	
METHOD: WESTERGREN ME	THOD				
GLUCOSE, FASTING,	PLASMA				
GLUCOSE, FASTING, PI	LASMA	95	74 - 99	mg/dL	
	OGLOBIN, EDTA WHOL	F BLOOD			
GLYCOSYLATED HEMOGLOBIN (HBA1C)		5.5	Non-diabetic: < 5.7	%	
	SEODIN (IIDAZE)	5.5	Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	70	
METHOD : HPLC	_				
MEAN PLASMA GLUCOS		111.2	< 116.0	mg/dL	
GLUCOSE, POST-PRA	·				
GLUCOSE, POST-PRANI	DIAL, PLASMA	118	Normal: < 140, mg/dL Impaired Glucose Tolerance:140- 199 Diabetic > or = 200		
METHOD: HEXOKINASE			Diabotic F of = 200		
CORONARY RISK PRO	OFILE, SERUM				
CHOLESTEROL		147	Desirable: <200 BorderlineHigh : 200-239 High : > or = 240	mg/dL	
METHOD: DIRECT MEASURE					
TRIGLYCERIDES		76	Desirable: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High : > or = 500	mg/dL	
METHOD: ENZYMATIC WITH	GLYCEROL BLANK				
HDL CHOLESTEROL		46	< 40 Low > or = 60 High	mg/dL	
METHOD : DIRECT MEASURE	: - PEG	0.5	A. I. II. I		
CHOLESTEROL LDL		86	Adult levels: Optimal < 100 Near optimal/above optimal: 129 Borderline high : 130-159 High : 160-189 Very high : = 190	mg/dL 100-	
NON HDL CHOLESTERC)L	101	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL	









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CHOLUBI BATTO	3.2				
CHOL/HDL RATIO	1.9				
LDL/HDL RATIO	1.9		0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk		
VERY LOW DENSITY LIPOPROTEIN	15.2			mg/dL	
LIVER FUNCTION PROFILE, SERUM					
BILIRUBIN, TOTAL	0.50		0.0 - 1.2	mg/dL	
METHOD: DIAZONIUM ION, BLANKED (ROCHE)					
BILIRUBIN, DIRECT	0.23	High	0.0 - 0.2	mg/dL	
METHOD: DIAZOTIZATION					
BILIRUBIN, INDIRECT	0.27		0.00 - 1.00	mg/dL	
METHOD: CALCULATED PARAMETER					
TOTAL PROTEIN	7.1		6.4 - 8.3	g/dL	
METHOD: BIURET, REAGENT BLANK, END POINT					
ALBUMIN	4.4		3.50 - 5.20	g/dL	
METHOD: BROMOCRESOL GREEN (BCG)					
GLOBULIN	2.7		2.0 - 4.1	g/dL	
METHOD: CALCULATED PARAMETER	4.0		10.00	DATE:	
ALBUMIN/GLOBULIN RATIO	1.6		1.0 - 2.0	RATIO	
METHOD: CALCULATED PARAMETER	19		UPTO 40	U/L	
ASPARTATE AMINOTRANSFERASE (AST/SGOT)				·	
ALANINE AMINOTRANSFERASE (ALT/SGPT)	28		UP TO 45	U/L	
ALKALINE PHOSPHATASE	96		40 - 129	U/L	
METHOD: PNPP - AMP BUFFER	22		0 61	114	
GAMMA GLUTAMYL TRANSFERASE (GGT)	32		8 - 61	U/L	
METHOD: GAMMA GLUTAMYL-3-CARBOXY-4-NITROANALIDE (IFCC) LACTATE DEHYDROGENASE) 154		135 - 225	117	
METHOD : LACTATE -PYRUVATE	134		135 - 225	U/L	
SERUM BLOOD UREA NITROGEN					
BLOOD UREA NITROGEN	6		6 - 20	mg/dL	
METHOD: UREASE COLORIMETRIC	0		0 - 20	mg/ac	
CREATININE, SERUM					
CREATININE	0.69	Low	0.70 - 1.20	mg/dL	
METHOD: JAFFE'S ALKALINE PICRATE -IFCC IDMS STANDARDIZED		LOW	0.70 - 1.20	mg/ac	
BUN/CREAT RATIO					
BUN/CREAT RATIO	8.70		5.0 - 15.0		
DOIN GREAT TOTAL					









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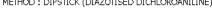
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URIC ACID	5.3		3.5 - 7.2	mg/dL	
METHOD: URICASE, COLORIMETRIC					
TOTAL PROTEIN, SERUM					
TOTAL PROTEIN	7.1		6.4 - 8.3	g/dL	
METHOD: BIURET, REAGENT BLANK, END POINT					
ALBUMIN, SERUM					
ALBUMIN	4.4		3.5 - 5.2	g/dL	
METHOD: BROMOCRESOL GREEN (BCG)					
GLOBULIN					
GLOBULIN	2.7		2.0 - 4.1	g/dL	
METHOD: CALCULATED PARAMETER					
ELECTROLYTES (NA/K/CL), SERUM					
SODIUM	138		137 - 145	mmol/L	
METHOD: ISE INDIRECT					
POTASSIUM	5.10	High	3.6 - 5.0	mmol/L	
METHOD: ISE INDIRECT					
CHLORIDE	101		98 - 107	mmol/L	
METHOD: ISE INDIRECT					
PHYSICAL EXAMINATION, URINE					
COLOR	PALE YELLOW				
APPEARANCE	CLEAR				
METHOD: DIPSTICK, MICROSCOPY					
SPECIFIC GRAVITY	1.010		1.003 - 1.035		
METHOD: DIPSTICK					
CHEMICAL EXAMINATION, URINE					
PH	6.0		4.7 - 7.5		
METHOD: DIPSTICK					
PROTEIN	NOT DETECTED		NOT DETECTED		
METHOD: DIPSTICK					
GLUCOSE	NOT DETECTED		NOT DETECTED		
METHOD: DIPSTICK					
KETONES	NOT DETECTED		NOT DETECTED		
METHOD : DIPSTICK	· 				
BLOOD	NOT DETECTED		NOT DETECTED		
METHOD : DIPSTICK	· 				
BILIRUBIN	NOT DETECTED		NOT DETECTED		
METHOD: DIPSTICK (DIAZOTISED DICHLOROANILINE)					











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UROBILINOGEN	NORMAL	NORMAL		
METHOD: DIPSTICK				
NITRITE	NOT DETECTED	NOT DETECTED		
METHOD: DIPSTICK				
MICROSCOPIC EXAMINATION, URINE				
PUS CELL (WBC'S)	3-5	0-5	/HPF	
METHOD: MICROSCOPIC EXAMINATION				
EPITHELIAL CELLS	1-2	0-5	/HPF	
METHOD: MICROSCOPIC EXAMINATION				
ERYTHROCYTES (RBC'S)	NOT DETECTED	NOT DETECTED	/HPF	
METHOD: MICROSCOPIC EXAMINATION				
CASTS	NOT DETECTED			
METHOD: MICROSCOPIC EXAMINATION				
CRYSTALS	NOT DETECTED			
METHOD: MICROSCOPIC EXAMINATION				
BACTERIA	NOT DETECTED	NOT DETECTED		
METHOD: MICROSCOPIC EXAMINATION				
REMARKS		URINE ANALYSIS: MICROSCOPIC EXAMINATION IS CARRIED OUT ON CENTRIFUGED URINARY SEDIMENT.		
THYROID PANEL, SERUM				
T3	98.1	58 - 159	ng/dL	
METHOD: CHEMILUMINESCENT MICROPARTICLE IMMUN	OASSAY (CMIA)			
T4	9.34	4.87 - 11.71	μg/dL	
METHOD: CHEMILUMINESCENT MICROPARTICLE IMMUN	OASSAY (CMIA)			
TSH 3RD GENERATION	1.660	0.350 - 4.940	μIU/mL	
METHOD: CHEMILUMINESCENT MICROPARTICLE IMMUN	OASSAY (CMIA)			
ABO GROUP & RH TYPE, EDTA WHOLE B	LOOD			
ABO GROUP	TYPE B			
METHOD: TUBE AGGLUTINATION				
RH TYPE	POSITIVE			
MEDIOD - TIPE ACCULIDATION				

METHOD: TUBE AGGLUTINATION

XRAY-CHEST

IMPRESSION NO ABNORMALITY DETECTED

TMT OR ECHO

TMT OR ECHO TMT IS NEGATIVE

ECG

ECG WITHIN NORMAL LIMITS









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MEDICAL HISTORY

RELEVANT PRESENT HISTORY NORMAL RELEVANT PAST HISTORY NORMAL RELEVANT PERSONAL HISTORY NORMAL

RELEVANT FAMILY HISTORY HIGH BLOOD PRESSURE

DIABETES

OCCUPATIONAL HISTORY NOT SIGNIFICANT NOT SIGNIFICANT HISTORY OF MEDICATIONS

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.69 mts WEIGHT IN KGS. 71 Kgs ВМІ 25 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

NORMAL MENTAL / EMOTIONAL STATE PHYSICAL ATTITUDE NORMAL GENERAL APPEARANCE / NUTRITIONAL STATUS **HEALTHY BUILT / SKELETAL FRAMEWORK AVERAGE** FACIAL APPEARANCE NORMAL SKIN NORMAL UPPER LIMB NORMAL LOWER LIMB NORMAL NECK NORMAL

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER

THYROID GLAND NOT ENLARGED CAROTID PULSATION NORMAL **TEMPERATURE** NORMAL

PULSE 60/MIN REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID

BRUIT

RESPIRATORY RATE NORMAL

CARDIOVASCULAR SYSTEM

ВР 122/82 MM HG mm/Hg

(SITTING)

NORMAL PERICARDIUM









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APEX BEAT NORMAL

HEART SOUNDS S1, S2 HEARD NORMALLY

MURMURS ABSENT

RESPIRATORY SYSTEM

SIZE AND SHAPE OF CHEST NORMAL MOVEMENTS OF CHEST SYMMETRICAL BREATH SOUNDS INTENSITY NORMAL

BREATH SOUNDS QUALITY VESICULAR (NORMAL)

ADDED SOUNDS ABSENT

PER ABDOMEN

APPEARANCE NORMAL VENOUS PROMINENCE ABSENT LIVER

NOT PALPABLE **SPLEEN** NOT PALPABLE

HERNIA ABSENT

CENTRAL NERVOUS SYSTEM

HIGHER FUNCTIONS NORMAL CRANIAL NERVES NORMAL CEREBELLAR FUNCTIONS NORMAL SENSORY SYSTEM NORMAL MOTOR SYSTEM NORMAL REFLEXES NORMAL

MUSCULOSKELETAL SYSTEM

SPINE NORMAL JOINTS NORMAL

BASIC EYE EXAMINATION

CONJUNCTIVA NORMAL **EYELIDS** NORMAL EYE MOVEMENTS NORMAL CORNEA NORMAL

DISTANT VISION RIGHT EYE WITHOUT GLASSES DISTANT VISION 6/6 (NORMAL) DISTANT VISION LEFT EYE WITHOUT GLASSES DISTANT VISION 6/6 (NORMAL) NEAR VISION RIGHT EYE WITHOUT GLASSES NEAR VISION N 6 (NORMAL) NEAR VISION LEFT EYE WITHOUT GLASSES NEAR VISION N 6 (NORMAL)



Page 7 Of 13 Scan to View Report





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COLOUR VISION NORMAL

BASIC ENT EXAMINATION

EXTERNAL EAR CANAL NORMAL TYMPANIC MEMBRANE NORMAL

NOSE NO ABNORMALITY DETECTED

SINUSES

THROAT NO ABNORMALITY DETECTED

TONSILS NOT ENLARGED

SUMMARY

RELEVANT HISTORY NOT SIGNIFICANT RELEVANT GP EXAMINATION FINDINGS NOT SIGNIFICANT

RELEVANT LAB INVESTIGATIONS DIRECT BILLIRUBIN RAISED - 0.23 MG/DL

POTASSIUM RAISED (5.10 mmol/L)

RELEVANT NON PATHOLOGY DIAGNOSTICS NO ABNORMALITIES DETECTED

REMARKS / RECOMMENDATIONS ADV. REDUCE FRIED & OILY FOOD IN DIET.

FOLLOW UP WITH FAMILY PHYSICIAN / SRL DR.

REPEAT POTASSIUM AFTER 15 DAYS.

FITNESS STATUS

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

Comments

OUR DOCTORS ON PANEL FOR NON-PATHOLOGICAL REPORTS:

1. DR. JIGNESH PARIKH: DNB (CARDIOLOGY), N.B.E.

(CONSULTANT CARDIOLOGIST)

2. DR. SANJAY JOSHI, D M R D, DNB - RADIOLOGIST
3. DR. SUCHARITA PARANJPE, MBBS, FCPS (OPHTHALMOLOGY)
4. DR. (MRS.) MANJUSHA PRABHUNE - GYNAECOLOGIST.

5. DR. (MRS.) NIMKAR - GYNAECOLOGIST.

This report bears the signature of the in-charge of the facility.

Panel doctors are responsible for the results/reports of their individual specialty

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-









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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 - NLRThe optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVIC 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 with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients with mild disease might become severe.

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.

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. 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 polikilocytosis, spherocytosis or sickle cells.

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

GLUCOSE, FASTING, PLASMA-ADA 2021 guidelines for adults, after 8 hrs fasting is as follows:

Pre-diabetics: 100 - 125 mg/dL Diabetic: > or = 126 mg/dL GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD-

Glycosylated hemoglobin (GHb) has been firmly established as an index of long-term blood glucose concentrations and as a measure of the risk for the development of complications in patients with diabetes mellitus. Formation of GHb is essentially irreversible, and the concentration in the blood depends on both the life span of the red

complications in patients with diabetes mellitus. Formation of GHb is essentially irreversible, and the concentration in the blood depends on both the life span of the red blood cell (average 120 days) and the blood glucose concentration. Because the rate of formation of GHb is directly proportional to the concentration of glucose in the blood, the GHb concentration represents the integrated values for glucose over the preceding 6-8 weeks.

Any condition that alters the life span of the red blood cells has the potential to alter the GHb level. Samples from patients with hemolytic anemias will exhibit decreased glycated hemoglobin values due to the shortened life span of the red cells. This effect will depend upon the seventy of the anemia. Samples from patients with polycythemia or post-splenectomy may exhibit increased glycated hemoglobin values due to a somewhat longer life span of the red cells.

Glycosylated hemoglobins results from patients with HbSS, HbCC, and HbSC and HbD must be interpreted with caution, given the pathological processes, including anemia, increased red cell turnover, transfusion requirements, that adversely impact HbA1c as a marker of long-term glycemic control. In these conditions, alternative forms of testing such as glycated serum protein (fructosamine) should be considered.

"Targets should be individualized; More or less stringent glycemic goals may be appropriate for individual patients. Goals should be individual patient considerations." considerations.

- 1. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, edited by Carl A Burtis, Edward R. Ashwood, David E Bruns, 4th Edition, Elsevier publication, 2006, 879-884.
- 2. Forsham PH. Diabetes Mellitus: A rational plan for management. Postgrad Med 1982, 71,139-154.
 3. Mayer TK, Freedman ZR: Protein glycosylation in Diabetes Mellitus: A review of laboratory measurements and their clinical utility. Clin Chim Acta 1983, 127, 147-184.
 GLUCOSE, POST-PRANDIAL, PLASMA-ADA Guidelines for 2hr post prandial glucose levels is only after ingestion of /5grams of glucose in 300 ml water, over a period of 5

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, spicen, 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



Page 9 Of 13 回数数数回 Scan to View Report





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Tel: 9111591115, Fax: 020 30251212 CIN - U74899PB1995PLC045956 Email: customercare.pune@srl.in

PATIENT NAME: AMARJEET SINGH PATIENT ID: AMARM21028530

ACCESSION NO: 0030VI002512 AGE: 37 Years SEX: Male ABHA NO:

RECEIVED: 10-09-2022 08:51 12-09-2022 14:43 DRAWN: REPORTED:

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known as total proteinus 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 known as total protein, is a blocifement test for measuring the total amount of protein in serving the total amount in the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serving 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, mainutrition and wasting etc SERUM BLOOD URBA NITROGEN-

Causes of Increased levels Pre renal

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

• Malignancy, Nephrolithiasis, Prostatism

Causes of decreased levels

Liver disease

- SIADH.

CREATININE, SERUM-

Higher than normal level may be due to:

- Blockage in the unnary 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.

Metabolic syndrome.

Causes of decreased levels

Low Zinc Intake

- OCP's
- Multiple Sclerosis

Nutritional tips to manage increased Uric acid levels

Drink plenty of fluids

- Limit animal proteins
 High Fibre foods
 Vit C Intake

■ Antioxidant rich foods 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

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.
ELECTROLYTES (NA/K/CL), SERUM-

Sodium levels are Increased in dehydration, cushing's syndrome, aldosteronism & decreased in Addison's disease, hypopituitarism, liver disease. Hypokalemia (low K) is common in vomiting, diarrhea, alcoholism, folic acid deficiency and primary aldosteronism. Hyperkalemia may be seen in end-stage renal failure, hemolysis, trauma, Addison's disease, metabolic acidosis, acute starvation, dehydration, and with rapid K infusion. Chloride is increased in dehydration, renal tubular acidosis (hyperchloremia metabolic acidosis), acute renal failure, metabolic acidosis associated with prolonged diarrhea and loss of sodium bicarbonate, diabetes insipidus, adrenocortical



Page 10 Of 13 具線機関 Scan to View Report





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hyperfuction, salicylate intoxication and with excessive infusion of isotonic saline or extremely high dietary intake of salf. Chloride is decreased in overhydration, chronic respiratory acidosis, salt-losing nephritis, metabolic alkalosis, congestive heart failure, Addisonian crisis, certain types of metabolic acidosis, persistent gastric secretion and

prolonged vomiting, MICROSCOPIC EXAMINATION, URINE-

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. Uninary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuna, 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

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 urmary tract or kidneys. Most common cause is bacterial urmary 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

THYROID PANEL, SERUMTriiodothyronine T3 , is a thyroid hormone. It affects 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 T3H.

Thyroxine T4, Thyroxine's principal function is to stimulate the metabolism of all cells and tissues in the body. Excessive secretion of thyroxine in the body is

hyperthyroidism, and deficient secretion is called 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.

In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.

Below mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3

Levels in TOTAL T4 TSH3G TOTAL T3

(μIU/mL) 0.1 - 2.5 0.2 - 3.0 Pregnancy First Trimester (µg/dL) 6.6 - 12.4 (ng/dL) 81 **-** 190 6.6 - 15.5 100 - 260 2nd Trimester 0.3 - 3.0 100 - 260 3rd Trimester 6.6 - 15.5Below mentioned are the guidelines for age related reference ranges for T3 and T4. T3

(µg/dL) 1-3 day: 8.2 - 19.9 (ng/dL) New Born: 75 = 260 1 Week: 6.0 - 15.9

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.
Kindly note: Method specific reference ranges are appearing on the report under biological reference range.

- Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.
 Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
 Behrman R.E. Kilegman R.M., Jenson H. B. Nelson Text Book of Pediatrics, 17th Edition

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,C 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.

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.

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



Page 11 Of 13 具線磁線 Scan to View Report







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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

■ It (xis par lequested 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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MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ULTRASOUND ABDOMEN ULTRASOUND ABDOMEN

Grade I changes of fatty liver are noted.

Clinical correlation.

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

Dr.Swati Pravin Mulani Lab Head

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 résults 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.

SRL Limited

Fortis Hospital, Sector 62, Phase VIII, Mohali 160062



