





CLIENT CODE: C000138355
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 34/2, NEW PALASIA, NEAR OM SHANTI BHAWAN CIRCLE,BEHIND

INDUSTRY HOUSE INDORE, 452001 MADHYA PRADESH, INDIA Tel: 9111591115, Fax:

CIN - U74899PB1995PLC045956 Email : customercare.indore@srl.in

PATIENT NAME: REKHA CHOUHAN PATIENT ID: REKHF0105677

ACCESSION NO: 0007VF005267 AGE: 55 Years SEX: Female

DRAWN: RECEIVED: 25/06/2022 09:16 REPORTED: 27/06/2022 12:34

REFERRING DOCTOR: DR. BANK OF BARODA. CLIENT PATIENT ID:

Test Report Status	Final	Results	Biological Reference Interval	Units

## MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN	14.0		12.0 - 15.0	g/dL
METHOD : SPECTROPHOTOMETRIC				3/
RED BLOOD CELL COUNT	5.56	High	3.8 - 4.8	mil/µL
METHOD: ELECTRICAL IMPEDANCE				
WHITE BLOOD CELL COUNT	5.90		4.0 - 10.0	thou/µL
PLATELET COUNT	229		150 - 410	thou/µL
METHOD: ELECTRICAL IMPEDANCE				
RBC AND PLATELET INDICES				
HEMATOCRIT	43.9		36 - 46	%
METHOD: CALCULATED PARAMETER				
MEAN CORPUSCULAR VOL	79.0	Low	83 - 101	fL
METHOD: CALCULATED PARAMETER				
MEAN CORPUSCULAR HGB.	25.2	Low	27.0 - 32.0	pg
METHOD: CALCULATED PARAMETER				
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	32.0		31.5 - 34.5	g/dL
METHOD : CALCULATED PARAMETER				
MENTZER INDEX	14.2			
RED CELL DISTRIBUTION WIDTH	13.6		11.6 - 14.0	%
METHOD: CALCULATED PARAMETER				
MEAN PLATELET VOLUME	11.6	High	6.8 - 10.9	fL
METHOD: CALCULATED PARAMETER				
WBC DIFFERENTIAL COUNT - NLR				
SEGMENTED NEUTROPHILS	62		40 - 80	%
METHOD: IMPEDENCE / MICROSCOPY				
ABSOLUTE NEUTROPHIL COUNT	3.66		2.0 - 7.0	thou/µL
METHOD: CALCULATED PARAMETER				
LYMPHOCYTES	29		20 - 40	%
METHOD : IMPEDENCE / MICROSCOPY				
ABSOLUTE LYMPHOCYTE COUNT	1.71		1.0 - 3.0	thou/µL
METHOD: CALCULATED PARAMETER				
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	2.1			
METHOD: CALCULATED PARAMETER				
EOSINOPHILS	04		1 - 6	%



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METHOD: IMPEDENCE / MICROSCOPY			
ABSOLUTE EOSINOPHIL COUNT	0.24	0.02 - 0.50	thou/µL
METHOD: CALCULATED PARAMETER			
MONOCYTES	05	2 - 10	%
METHOD: IMPEDENCE / MICROSCOPY			
ABSOLUTE MONOCYTE COUNT	0.30	0.2 - 1.0	thou/µL
METHOD: CALCULATED PARAMETER			
BASOPHILS	00	0 - 2	%
METHOD: IMPEDENCE / MICROSCOPY			
DIFFERENTIAL COUNT PERFORMED ON:	EDTA SMEAR		

## Comments

Please note that:

The Automatic analyzer used to estimate Complete Blood Counts (Blood cell Indices & counts) is "ABX PENTRA XL 80" (HORIBA); the values are correlated manually with microscopic picture.

**ERYTHRO SEDIMENTATION RATE, BLOOD** 

SEDIMENTATION RATE (ESR) 40 High 0 - 20 mm at 1 hr

METHOD: WESTERGREN METHOD

**GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD** 

GLYCOSYLATED HEMOGLOBIN (HBA1C) 6.0 **High** Non-diabetic: < 5.7 %

Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5ADA Target: 7.0 Action suggested: > 8.0

METHOD: HPLC

MEAN PLASMA GLUCOSE 125.5 **High** < 116.0mg/dL

METHOD: CALCULATED PARAMETER











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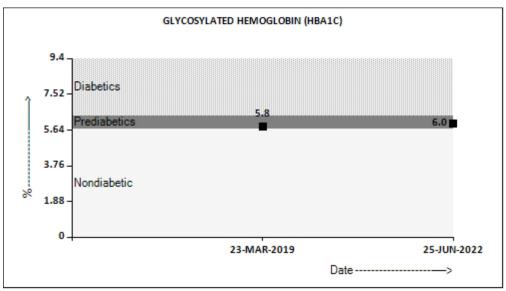
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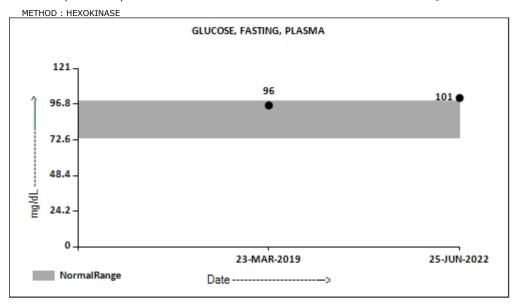
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**GLUCOSE, FASTING, PLASMA** 

GLUCOSE, FASTING, PLASMA High 74 - 99 101 mg/dL













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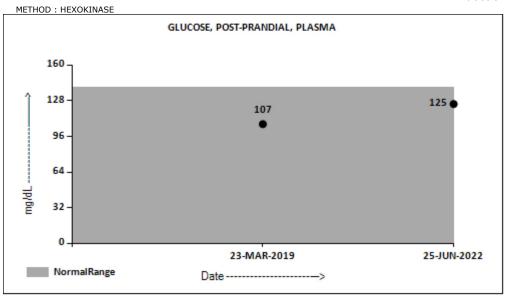
**GLUCOSE, POST-PRANDIAL, PLASMA** 

GLUCOSE, POST-PRANDIAL, PLASMA 125 Normal: < 140, mg/dL

Impaired Glucose Tolerance: 140-

199

Diabetic > or = 200



CORONARY RISK PROFILE (LIPID PROFILE), SERUM.

CHOLESTEROL  METHOD: OXIDASE, ESTERASE, PEROXIDASE	183.6	Desirable: <200 BorderlineHigh : 200-239 High : > or = 240	mg/dL
TRIGLYCERIDES	116	Desirable: < 150	ma/dL

Borderline High: 150 - 199 High: 200 - 499

Very High: > or = 500METHOD: ENZYMATIC ASSAY

HDL CHOLESTEROL 46.3 < 40 Low mg/dL > or = 60 High

DIRECT LDL CHOLESTEROL 114.1 **High** Adult levels: mg/dL Optimal < 100

Near optimal/above optimal: 100-

129

Borderline high: 130-159

High: 160-189 Very high: = 190





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NON HDL CHOLESTEROL	137	High	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
CHOL/HDL RATIO	4.0		3.30 - 4.40	
LDL/HDL RATIO	2.5		0.5 - 3.0	
VERY LOW DENSITY LIPOPROTEIN	23.2		< or = 30.0	mg/dL
LIVER FUNCTION PROFILE, SERUM				
BILIRUBIN, TOTAL  METHOD: JENDRASSIK AND GROFF	0.54		0.0 - 1.2	mg/dL
BILIRUBIN, DIRECT METHOD: DIAZOTIZATION	0.19		0.0 - 0.2	mg/dL
BILIRUBIN, INDIRECT	0.35		0.00 - 1.00	mg/dL
TOTAL PROTEIN  METHOD: BIURET	7.6		6.4 - 8.3	g/dL
ALBUMIN  METHOD: BROMOCRESOL PURPLE	4.4		3.50 - 5.20	g/dL
GLOBULIN	3.2		2.0 - 4.1	g/dL
ALBUMIN/GLOBULIN RATIO	1.4		1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)  METHOD: UV WITH P5P	29.6		UPTO 32	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT)  METHOD: UV WITH P5P	22.6		UPTO 34	U/L
ALKALINE PHOSPHATASE  METHOD: PNPP	54.6		35 - 104	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT)  METHOD: G-GLUTAMYL-CARBOXY-NITROANILIDE	21.9		5 - 36	U/L
LACTATE DEHYDROGENASE  METHOD: ENZYMATIC LACTATE - PYRUVATE(IFCC)  SERUM BLOOD UREA NITROGEN	209		135 - 214	U/L
BLOOD UREA NITROGEN METHOD: UREASE KINETIC	13.9		6 - 20	mg/dL











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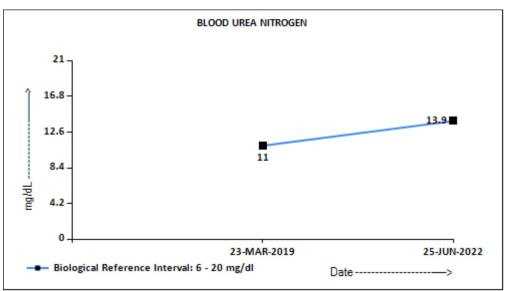
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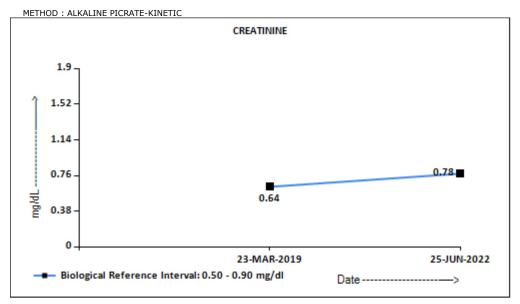
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**CREATININE, SERUM** 

**CREATININE** 0.78 0.50 - 0.90 mg/dL













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BUN/CREAT RATIO					
BUN/CREAT RATIO		17.82	Hiah	5.0 - 15.0	
URIC ACID, SERUM			,	5.6 25.6	
URIC ACID		4.2		2.6 - 6.0	mg/dL
METHOD : URICASE/CATALA	ASE UV			2.0 0.0	9, a=
TOTAL PROTEIN, SE	RUM				
TOTAL PROTEIN		7.6		6.4 - 8.3	g/dL
METHOD : BIURET					
ALBUMIN, SERUM					
ALBUMIN		4.4		3.5 - 5.2	g/dL
METHOD : BROMOCRESOL F	PURPLE				
* GLOBULIN					
GLOBULIN		3.2		2.0 - 4.1	g/dL
ELECTROLYTES (NA/	/K/CL), SERUM				
SODIUM		141.0		136.0 - 146.0	mmol/L
POTASSIUM		4.62		3.50 - 5.10	mmol/L
CHLORIDE		103.6		98.0 - 106.0	mmol/L
PHYSICAL EXAMINA	TION, URINE				
COLOR		PALE YELLOW			
METHOD: MACROSCOPY					
APPEARANCE		CLEAR			
METHOD : VISUAL					
SPECIFIC GRAVITY		1.010		1.003 - 1.035	
METHOD : REFLECTANCE SE					
* CHEMICAL EXAMIN	NATION, URINE				
PH		5.5		4.7 - 7.5	
METHOD : PH INDICATOR A	IND REFLECTANCE	NOT DETECTED		NOT DETECTED	
PROTEIN	OF INDICATORS WITH REFLECTANCE	NOT DETECTED		NOT DETECTED	
GLUCOSE	OF INDICATORS WITH REFLECTANCE	NOT DETECTED		NOT DETECTED	
METHOD : GLUCOSE OXIDA	SE	NOT DETECTED		NOT DETECTED	
KETONES		NOT DETECTED		NOT DETECTED	
METHOD : ROTHERA'S WITH	H REFLECTANCE				
BLOOD		NOT DETECTED		NOT DETECTED	
METHOD : PEROXIDASE ME	THOD WITH REFLECTANCE				
BILIRUBIN		NOT DETECTED		NOT DETECTED	





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METHOD: DIAZOTIZED WITH REFLECTANCE			
UROBILINOGEN	NORMAL	NORMAL	
METHOD: EHRLICH REACTION REFLECTANCE			
NITRITE	NOT DETECTED	NOT DETECTED	
METHOD: DIAZOTIZED WITH REFLECTANCE			
LEUKOCYTE ESTERASE	NOT DETECTED	NOT DETECTED	
* MICROSCOPIC EXAMINATION, URINE			
PUS CELL (WBC'S)	2-3	0-5	/HPF
METHOD: ESTERASES METHOD WITH REFLECTANCE			
EPITHELIAL CELLS	5-7	0-5	/HPF
METHOD: MICROSCOPIC EXAMINATION			
ERYTHROCYTES (RBC'S)	NOT DETECTED	NOT DETECTED	/HPF
CASTS	NOT DETECTED		
METHOD: MICROSCOPIC EXAMINATION			
CRYSTALS	NOT DETECTED		
METHOD: MICROSCOPIC EXAMINATION			
BACTERIA	NOT DETECTED	NOT DETECTED	
METHOD: MICROSCOPIC EXAMINATION			
YEAST	NOT DETECTED	NOT DETECTED	
REMARKS	Please note that all the ur	inary findings are confirmed mar	nually as well.
THYROID PANEL, SERUM			
T3	88.0	80.00 - 200.00	ng/dL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
T4	5,55	5.10 - 14.10	μg/dL
METHOD: ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			1-3,
TSH 3RD GENERATION	3.810	0.270 - 4.200	μIU/mL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			ļ,
ABO GROUP & RH TYPE, EDTA WHOLE BLOOD			
ABO GROUP	TYPE A		
METHOD : TUBE AGGLUTINATION			
RH TYPE	POSITIVE		
METHOD : TUBE AGGLUTINATION			
* XRAY-CHEST			
	DOTH THE LUNG FIELDS	ADE CLEAD	

»» BOTH THE LUNG FIELDS ARE CLEAR

»» BOTH THE COSTOPHRENIC AND CARIOPHRENIC ANGELS ARE CLEAR

»» BOTH THE HILA ARE NORMAL











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Did Britis Did Britis		<del></del>		
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<b>»</b> »	CARDIAC AND AOR	TIC SHADOWS APPEAR NORMAL		
<b>»</b> »	BOTH THE DOMES OF THE DIAPHRAM ARE NORMAL			
<b>»</b> »	VISUALIZED BONY	JALIZED BONY THORAX IS NORMAL		
IMPRESSION	NO ABNORMALITY	DETECTED		
* TMT OR ECHO				
TMT OR ECHO	NEGATIVE			
* ECG				
ECG	PROLONGED QT INTERVAL			
*	COMPARE WITH OL	.D ECG		
* MAMOGRAPHY (BOTH BREASTS)				
MAMOGRAPHY BOTH BREASTS	IMPRESSION: - No	rmal sonographic appearance of bilateral breasts.		
* MEDICAL HISTORY				
RELEVANT PRESENT HISTORY	NOT SIGNIFICANT			
RELEVANT PAST HISTORY	SURGICAL H/O HYS	STERECTOMY 6-7 YEARS.		
RELEVANT PERSONAL HISTORY	NOT SIGNIFICANT			
RELEVANT FAMILY HISTORY	F/H/O DM- MOTHER	3		

RELEVANT FAMILY HISTORY F/H/O DM- MOTHER OCCUPATIONAL HISTORY **NOT SIGNIFICANT** HISTORY OF MEDICATIONS **NOT SIGNIFICANT** 

\* ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.52 mts Kgs WEIGHT IN KGS. 50

BMI BMI & Weight Status as follows: kg/sqmts 22

Below 18.5: Underweight 18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese

\* GENERAL EXAMINATION

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











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NECK NORMAL

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER

THYROID GLAND NOT ENLARGED

CAROTID PULSATION NORMAL TEMPERATURE AFEBRILE

PULSE 57/MIN, REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID

BRUIT

RESPIRATORY RATE NORMAL

\* CARDIOVASCULAR SYSTEM

BP 160/90 MM HG mm/Hg

(SITTING) NORMAL

APEX BEAT NORMAL

HEART SOUNDS S1, S2 HEARD NORMALLY

MURMURS ABSENT

\* RESPIRATORY SYSTEM

SIZE AND SHAPE OF CHEST

MOVEMENTS OF CHEST

BREATH SOUNDS INTENSITY

NORMAL

BREATH SOUNDS QUALITY VESICULAR (NORMAL)

ADDED SOUNDS ABSENT

\* PER ABDOMEN

**PERICARDIUM** 

APPEARANCE NORMAL VENOUS PROMINENCE ABSENT

LIVER NOT PALPABLE
SPLEEN NOT PALPABLE
HERNIA NORMAL

\* CENTRAL NERVOUS SYSTEM

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



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\* MUSCULOSKELETAL SYSTEM

SPINE NORMAL JOINTS NORMAL

\* BASIC EYE EXAMINATION

CONJUNCTIVA NORMAL
EYELIDS NORMAL
EYE MOVEMENTS NORMAL
CORNEA NORMAL

DISTANT VISION RIGHT EYE WITH GLASSES 6/9, SLIGHTLY POOR

DISTANT VISION LEFT EYE WITH GLASSES 6/6, WITH GLASSES NORMAL

NEAR VISION RIGHT EYE WITH GLASSES N/8, SLIGHTLY POOR NEAR VISION LEFT EYE WITH GLASSES N/8, SLIGHTLY POOR

COLOUR VISION NORMAL

\* BASIC ENT EXAMINATION

EXTERNAL EAR CANAL NORMAL TYMPANIC MEMBRANE NORMAL

NOSE NO ABNORMALITY DETECTED

SINUSES CLEAR

THROAT NO ABNORMALITY DETECTED

TONSILS NOT ENLARGED

\* SUMMARY

RELEVANT HISTORY NOT SIGNIFICANT RELEVANT GP EXAMINATION FINDINGS NOT SIGNIFICANT

REMARKS / RECOMMENDATIONS NONE

\* FITNESS STATUS

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

## Comments

CLINICAL FINDINGS :-

RAISED FBS.

RAISED HbA1C AND MEAN PLASMA GLUCOSE.

SLIGHTLY DYSLIPIDIMA.

ADVICE: - NEED PHYSICIAN CONSULTATION FOR LIFE STYLE MODIFICATION.



Page 11 Of 16







**CLIENT CODE:** C000138355 **CLIENT'S NAME AND ADDRESS:** 

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL ) F-703, LADO SARAI, MEHRAULI

SOUTH WEST DELHT NEW DELHI 110030 **DELHI INDIA** 

8800465156

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CIN - U74899PB1995PLC045956 Email: customercare.indore@srl.in

PATIENT ID: **PATIENT NAME: REKHA CHOUHAN REKHF0105677** 

0007VF005267 AGE: 55 Years SEX: Female ACCESSION NO:

DRAWN: RECEIVED: 25/06/2022 09:16 REPORTED: 27/06/2022 12:34

REFERRING DOCTOR: DR. BANK OF BARODA. CLIENT PATIENT ID:

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

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 - NLRThe 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

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, BLOODErythrocyte 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 poikilocytosis, spherocytosis or sickle cells.

### 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"

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 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 severity 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 individualized based on duration of diabetes, age/life expectancy, comorbid conditions, known CVD or advanced microvascular complications, hypoglycemia unawareness, and individual patient considerations.'

### References

- 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,
- 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, 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 GLUCOSE, POST-PRANDIAL, PLASMA-ADA Guidelines for 2hr post prandial glucose levels is only after ingestion of 75grams of glucose in 300 ml water, over a period of 5 minutes.

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 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





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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.

Non HDL Cholesterol - Adult treatment panel ATP III suggested the addition of Non-HDL Cholesterol as an indicator of all atherogenic lipoproteins (mainly LDL and VLDL). NICE guidelines recommend Non-HDL Cholesterol measurement before initiating lipid lowering therapy. It has also been shown to be a better marker of risk in both primary and secondary prevention studies.

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.

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 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











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• 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'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 alobulin

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 hyperfuction, salicylate intoxication and with excessive infusion of isotonic saline or extremely high dietary intake of salt. 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. 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 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

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.



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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 TSH.

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 0.3 - 3.0 Pregnancy First Trimester (µg/dL) 6.6 - 12.4 (ng/dL) 81 - 190 6.6 - 15.5 6.6 - 15.5 100 - 260 100 - 260 2nd Trimester 3rd Trimester

Below mentioned are the guidelines for age related reference ranges for T3 and T4.

T3 T4 (ng/dL) (µg/dL) 1-3 day: 8.2 - 19.9 1 Week: 6.0 - 15.9 New Born: 75 - 260

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.

- 1. Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.
- 2. Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
- 3. 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,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.

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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### **MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE**

\* ULTRASOUND ABDOMEN

**ULTRASOUND ABDOMEN** 

NO ABNORMALITIES DETECTED

\*\*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. Rashmi Patidar ,MD Pathologist Dr.Arpita Pasari, MD Consultant Pathologist

## **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 (DOS).
- 3. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
- 4. A requested test might not be performed if:
- a. Specimen received is insufficient or inappropriate specimen quality is unsatisfactory
  - b. Incorrect specimen type
- c. Request for testing is withdrawn by the ordering doctor or patient  $% \left( 1\right) =\left( 1\right) \left( 1$
- d. There is a discrepancy between the label on the specimen container and the name on the test requisition form

- 5. The results of a laboratory test are dependent on the quality of the sample as well as the assay technology.
- 6. Result delays could be because of uncontrolled circumstances. e.g. assay run failure.
- 7. Tests parameters marked by asterisks are excluded from the "scope" of NABL accredited tests. (If laboratory is accredited).
- 8. Laboratory results should be correlated with clinical information to determine Final diagnosis.
- 9. Test results are not valid for Medico- legal purposes.
  10. In case of queries or unexpected test results please call at SRL customer care (Toll free: 1800-222-000). Post proper investigation repeat analysis may be carried out.

### **SRL Limited**

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