



CLIENT CODE : C000138361

## 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  
E-368, LGF, Nirman Vihar, Near Nirman Vihar Metro  
NEW DELHI, 110092  
NEW DELHI, INDIA  
Tel : 9111591115, Fax :  
CIN - U74899PB1995PLC045956  
Email : wellness.eastdelhi@srl.in

PATIENT NAME : SHWETA KUMARI

PATIENT ID : SHWEF02019028

ACCESSION NO : 0028VE000537 AGE : 32 Years SEX : Female

DRAWN :

RECEIVED : 14/05/2022 11:13

REPORTED : 18/05/2022 15:05

REFERRING DOCTOR : DR. MEDIWHEEL

CLIENT PATIENT ID :

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**MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE****BLOOD COUNTS,EDTA WHOLE BLOOD**

HEMOGLOBIN	<b>11.7</b>	<b>Low</b>	12.0 - 15.0	g/dL
METHOD : SPECTROPHOTOMETRY				
RED BLOOD CELL COUNT	4.31		3.8 - 4.8	mil/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE				
WHITE BLOOD CELL COUNT	5.10		4.0 - 10.0	thou/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE				
PLATELET COUNT	150		150 - 410	thou/ $\mu$ L
METHOD : ELECTRICAL IMPEDANCE				

**RBC AND PLATELET INDICES**

HEMATOCRIT	36.0		36.0 - 46.0	%
METHOD : CALCULATED PARAMETER				
MEAN CORPUSCULAR VOL	83.6		83.0 - 101.0	fL
METHOD : DERIVED/COULTER PRINCIPLE				
MEAN CORPUSCULAR HGB.	27.1		27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER				
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	32.4		31.5 - 34.5	g/dL
METHOD : CALCULATED PARAMETER				
MENTZER INDEX	19.4			
RED CELL DISTRIBUTION WIDTH	<b>16.1</b>	<b>High</b>	11.6 - 14.0	%
METHOD : DERIVED/COULTER PRINCIPLE				
MEAN PLATELET VOLUME	<b>12.5</b>	<b>High</b>	6.8 - 10.9	fL
METHOD : DERIVED/COULTER PRINCIPLE				

**WBC DIFFERENTIAL COUNT - NLR**

SEGMENTED NEUTROPHILS	62		40 - 80	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY				
ABSOLUTE NEUTROPHIL COUNT	3.16		2.0 - 7.0	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
LYMPHOCYTES	30		20 - 40	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY				
ABSOLUTE LYMPHOCYTE COUNT	1.60		1.0 - 3.0	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.9			
EOSINOPHILS	1		1.0 - 6.0	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY				



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ABSOLUTE EOSINOPHIL COUNT		0.05	0.02 - 0.50	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
MONOCYTES		7	2.0 - 10.0	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY				
ABSOLUTE MONOCYTE COUNT		0.40	0.2 - 1.0	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
BASOPHILS		0	0 - 1	%
METHOD : VCS TECHNOLOGY/ MICROSCOPY				
ABSOLUTE BASOPHIL COUNT		<b>0.00</b>	<b>Low</b> 0.02 - 0.10	thou/ $\mu$ L
METHOD : CALCULATED PARAMETER				
DIFFERENTIAL COUNT PERFORMED ON:		EDTA SMEAR		
<b>MORPHOLOGY</b>				
REMARKS		GIANT PLATELET ARE SEEN.		
<b>ERYTHRO SEDIMENTATION RATE, BLOOD</b>				
SEDIMENTATION RATE (ESR)		<b>56</b>	<b>High</b> 0 - 20	mm at 1 hr
METHOD : WESTERGREN METHOD				
<b>GLUCOSE, FASTING, PLASMA</b>				
GLUCOSE, FASTING, PLASMA		95	74 - 106	mg/dL
METHOD : HEXOKINASE				
<b>GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD</b>				
GLYCOSYLATED HEMOGLOBIN (HBA1C)		5.5	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%
MEAN PLASMA GLUCOSE		111.2	< 116.0	mg/dL
<b>GLUCOSE, POST-PRANDIAL, PLASMA</b>				
GLUCOSE, POST-PRANDIAL, PLASMA		95	70 - 140	mg/dL
METHOD : HEXOKINASE				



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## Comments

## Causes of Low Post Prandial Blood Sugar

The causes of low blood sugar that occurs following a meal have been divided traditionally into

- (1) Alimentary
- (2) Functional and
- (3) That in diabetics and those with impaired glucose tolerance

Alimentary Hypoglycemia usually, but not necessarily, occurs in those patients who have had gastrointestinal surgery. Accelerated absorption of a glucose load leads to marked post - prandial hyperglycemia with a corresponding exaggerated insulin release thus resulting in hypoglycemia the ensuing hypoglycemia typically occurs from one and one half to three hours after eating. This pattern of glucose intolerance and a history of gastrointestinal surgery are suggestive of the diagnosis.

Functional Hypoglycemia is quite common in adults; it may be characterized by abnormally low plasma glucose and symptoms of light headedness, shakiness, diaphoresis, weakness, fatigue occurring with the modest withholding of food. Complaints suggestive of this syndrome commonly are seen in those who have emotional problems.

Post Prandial Hypoglycemia in diabetics: Patients who are diabetics or who have impaired glucose tolerance also may experience reactive hypoglycemia. In these patients, hypoglycemia occurs later than in the group with the alimentary disorder, and insulin response is delayed and exaggerated.

## CORONARY RISK PROFILE (LIPID PROFILE), SERUM

CHOLESTEROL	174		< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD : CHOLESTEROL OXIDASE, ESTERASE, PEROXIDASE				
TRIGLYCERIDES	194	High	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/= 500 Very High	mg/dL
METHOD : ENZYMATIC, END POINT				
HDL CHOLESTEROL	34	Low	< 40 Low >/=60 High	mg/dL
METHOD : DIRECT MEASURE POLYMER-POLYANION				
DIRECT LDL CHOLESTEROL	107	High	< 100 Optimal 100 - 129 Near or above optimal 130 - 160 Borderline High 161 - 189 High >/= 190 Very High	mg/dL
METHOD : DIRECT MEASURE				
NON HDL CHOLESTEROL	140	High	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
METHOD : CALCULATED PARAMETER				





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CHOL/HDL RATIO	<b>5.1</b>	<b>High</b>	3.3-4.4 Low Risk 4.5-7.0 Average Risk 7.1-11.0 Moderate Risk > 11.0 High Risk	
METHOD : CALCULATED PARAMETER				
LDL/HDL RATIO	<b>3.2</b>	<b>High</b>	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	
METHOD : CALCULATED PARAMETER				
VERY LOW DENSITY LIPOPROTEIN	<b>38.8</b>	<b>High</b>	Desirable value : 10 - 35	mg/dL
METHOD : CALCULATED PARAMETER				
<b>LIVER FUNCTION PROFILE, SERUM</b>				
BILIRUBIN, TOTAL	0.49		UPTO 1.2	mg/dL
METHOD : DIAZONIUM ION, BLANKED (ROCHE)				
BILIRUBIN, DIRECT	0.15		0.00 - 0.30	mg/dL
METHOD : DIAZOTIZATION				
BILIRUBIN, INDIRECT	0.34		0.00 - 0.60	mg/dL
METHOD : CALCULATED PARAMETER				
TOTAL PROTEIN	7.3		6.6 - 8.7	g/dL
METHOD : BIURET,SERUM BLANK,ENDPOINT				
ALBUMIN	4.5		3.97 - 4.94	g/dL
METHOD : BROMOCRESOL GREEN				
GLOBULIN	2.8		2.0 - 4.0 Neonates - Pre Mature: 0.29 - 1.04	g/dL
METHOD : CALCULATED PARAMETER				
ALBUMIN/GLOBULIN RATIO	1.6		1.0 - 2.0	RATIO
METHOD : CALCULATED PARAMETER				
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	<b>37</b>	<b>High</b>	0 - 32	U/L
METHOD : UV WITHOUT P5P				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	<b>62</b>	<b>High</b>	0 - 31	U/L
METHOD : UV WITHOUT P5P				
ALKALINE PHOSPHATASE	<b>143</b>	<b>High</b>	35 - 105	U/L
METHOD : PNPP, AMP BUFFER-IFCC				
GAMMA GLUTAMYL TRANSFERASE (GGT)	<b>57</b>	<b>High</b>	5 - 36	U/L
METHOD : G-GLUTAMYL-CARBOXY-NITROANILIDE-IFCC				
LACTATE DEHYDROGENASE	145		135 - 214	U/L
METHOD : L TO P, IFCC				

**SERUM BLOOD UREA NITROGEN**



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BLOOD UREA NITROGEN

9

6 - 20

mg/dL

METHOD : UREASE - UV

**CREATININE, SERUM**

CREATININE

0.58

0.50 - 0.90

mg/dL

METHOD : ALKALINE PICRATE-KINETIC

**BUN/CREAT RATIO**

BUN/CREAT RATIO

**15.52****High** 5.00 - 15.00

METHOD : CALCULATED PARAMETER

**URIC ACID, SERUM**

URIC ACID

5.0

2.4 - 5.7

mg/dL

METHOD : URICASE, COLORIMETRIC

**TOTAL PROTEIN, SERUM**

TOTAL PROTEIN

7.3

6.6 - 8.7

g/dL

METHOD : BIURET, SERUM BLANK, ENDPOINT

**ALBUMIN, SERUM**

ALBUMIN

4.5

3.97 - 4.94

g/dL

METHOD : BROMOCRESOL GREEN

**GLOBULIN**

GLOBULIN

2.8

2.0 - 4.0  
Neonates -  
Pre Mature:  
0.29 - 1.04

g/dL

METHOD : CALCULATED PARAMETER

**ELECTROLYTES (NA/K/CL), SERUM**

SODIUM

136

136 - 145

mmol/L

METHOD : ISE INDIRECT

POTASSIUM

4.29

3.5 - 5.1

mmol/L

METHOD : ISE INDIRECT

CHLORIDE

99

98 - 107

mmol/L

METHOD : ISE INDIRECT

**PHYSICAL EXAMINATION, URINE**

COLOR

PALE YELLOW

METHOD : VISUAL

APPEARANCE

CLEAR

METHOD : VISUAL

SPECIFIC GRAVITY

1.025

1.003 - 1.035

METHOD : PKA CHANGE OF PRETREATED POLYELECTROLYTES

**CHEMICAL EXAMINATION, URINE**

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PH		6.0	4.7 - 7.5	
METHOD : DOUBLE INDICATOR PRINCIPLE				
PROTEIN		NOT DETECTED	NOT DETECTED	
METHOD : PROTEIN- ERROR INDICATOR				
GLUCOSE		NOT DETECTED		
METHOD : OXIDASE-PEROXIDASE REACTION				
KETONES		NOT DETECTED	NOT DETECTED	
METHOD : ACETOACETIC REACTION WITH NITROPRUSSIDE				
BLOOD		NOT DETECTED	NOT DETECTED	
METHOD : PEROXIDASE-LIKE ACTIVITY OF HEMOGLOBIN				
BILIRUBIN		NOT DETECTED	NOT DETECTED	
METHOD : DIAZOTIZATION				
UROBILINOGEN		NORMAL	NORMAL	
METHOD : MODIFIED EHRlich REACTION				
NITRITE		NOT DETECTED	NOT DETECTED	
METHOD : CONVERSION OF NITRATE TO NITRITE				
<b>MICROSCOPIC EXAMINATION, URINE</b>				
PUS CELL (WBC'S)		2-3	0-5	/HPF
METHOD : MICROSCOPIC EXAMINATION				
EPITHELIAL CELLS		3-5	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		<b>DETECTED (FEW)</b>	NOT DETECTED	
METHOD : MICROSCOPIC EXAMINATION				
YEAST		NOT DETECTED	NOT DETECTED	
REMARKS		MICROSCOPIC EXAMINATION DONE ON CENTRIFUGED URINE PLEASE NOTE THAT GRADING OF BACTERIA NEEDS TO BE CORELATED WITH THE CULTURE IN CASE FOUND SIGNIFICANT CLINICALLY. THE BACTERIA CAN ALSO BE A PART OF SURROUNDING SKIN FLORA.		
METHOD : MANUAL				
<b>THYROID PANEL, SERUM</b>				
T3		112.2	80.00 - 200.00	ng/dL
METHOD : ECLIA				



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T4		8.62	5.10 - 14.10	µg/dL
METHOD : ECLIA				
TSH 3RD GENERATION		2.840	0.270 - 4.200	µIU/mL
METHOD : ECLIA				

## Comments

Note: TSH

Please note that TSH values can show a diurnal variation (up to 50%). Subclinical thyroid/ gut diseases/ intake of calcium, multivitamin and several other drugs, resistance to thyroid hormones, noncompliance to medication can lead to discrepant thyroid results, the levels of thyroid can also be affected by weather, high fiber diet, estrogen surge, stress, alcohol, pregnancy, obesity/weight loss. The results can vary on different instruments. Serum TSH changes significantly in response to even minor changes in thyroid hormones. For the diagnosis of hypo and hyper thyroids, sole dependence on TSH should not be done and testing also needs to be performed for T3, T4 and other metabolic parameters as well as reasons elicited above.

## PAPANICOLAOU SMEAR

SPECIMEN TYPE	Cytology number C-1184-22 Cervical cytological preparation 2 smears examined
REPORTING SYSTEM	2014 Bethesda system
SPECIMEN ADEQUACY	Smears are satisfactory for evaluation
MICROSCOPY	Endocervical cells/transformation zone component absent
INTERPRETATION / RESULT	Negative for intraepithelial lesion or malignancy

## Comments

Pap smear cytology is a screening test. Corroboration of cytopathologic findings with colposcopic/local examination and ancillary findings is recommended.

## ABO GROUP &amp; RH TYPE, EDTA WHOLE BLOOD

ABO GROUP	TYPE B
METHOD : COLUMN AGGLUTINATION TECHNOLOGY/AGGLUTINATION TECHNOLOGY	
RH TYPE	POSITIVE
METHOD : COLUMN AGGLUTINATION TECHNOLOGY/AGGLUTINATION TECHNOLOGY	

## TMT OR ECHO

TMT OR ECHO 2D ECHO DONE-NORMAL

## ECG

ECG WITHIN NORMAL LIMITS

## MEDICAL HISTORY

RELEVANT PRESENT HISTORY	K/C OF BACKPAIN.
RELEVANT PAST HISTORY	H/O LSCS IN 2013 AND 2017/H/O PULMONARY KOCHS HAD TAKEN ATT FOR 1 YEAR IN 2005
RELEVANT PERSONAL HISTORY	MARRIED, NON VEGETARIAN



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RELEVANT FAMILY HISTORY

FATHER-HTN,DIABETES MELLITUS/CAD

OCCUPATIONAL HISTORY

OFFICER

HISTORY OF MEDICATIONS

NOT SIGNIFICANT

## ANTHROPOMETRIC DATA &amp; BMI

HEIGHT IN METERS

1.42

mts

WEIGHT IN KGS.

64.6

Kgs

BMI

32

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

MENTAL / EMOTIONAL STATE

NORMAL

PHYSICAL ATTITUDE

NORMAL

GENERAL APPEARANCE / NUTRITIONAL STATUS

OVERWEIGHT

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

70 / MIN REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT

RESPIRATORY RATE

NORMAL

## CARDIOVASCULAR SYSTEM

BP

100/70

mm/Hg

PERICARDIUM

NORMAL

APEX BEAT

NORMAL

HEART SOUNDS

S1, S2 HEARD NORMALLY

MURMURS

ABSENT

## RESPIRATORY SYSTEM

SIZE AND SHAPE OF CHEST

NORMAL



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MOVEMENTS OF CHEST	SYMMETRICAL
BREATH SOUNDS INTENSITY	NORMAL
BREATH SOUNDS QUALITY	VESICULAR (NORMAL)
ADDED SOUNDS	ABSENT
<b>PER ABDOMEN</b>	
APPEARANCE	NORMAL
VENOUS PROMINENCE	ABSENT
LIVER	NOT PALPABLE
SPLEEN	NOT PALPABLE
<b>CENTRAL NERVOUS SYSTEM</b>	
HIGHER FUNCTIONS	NORMAL
CRANIAL NERVES	NORMAL
CEREBELLAR FUNCTIONS	NORMAL
SENSORY SYSTEM	NORMAL
MOTOR SYSTEM	NORMAL
REFLEXES	NORMAL
<b>MUSCULOSKELETAL SYSTEM</b>	
SPINE	NORMAL
JOINTS	NORMAL
<b>BASIC EYE EXAMINATION</b>	
CONJUNCTIVA	NORMAL
EYELIDS	NORMAL
EYE MOVEMENTS	NORMAL
CORNEA	NORMAL
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
<b>BASIC ENT EXAMINATION</b>	
EXTERNAL EAR CANAL	NORMAL
TYMPANIC MEMBRANE	NORMAL
NOSE	NO ABNORMALITY DETECTED
SINUSES	CLEAR





CLIENT CODE : C000138361

**CLIENT'S NAME AND ADDRESS :**  
ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )  
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NEW DELHI, INDIA  
Tel : 9111591115, Fax :  
CIN - U74899PB1995PLC045956  
Email : wellness.eastdelhi@srl.in

PATIENT NAME : SHWETA KUMARI

PATIENT ID : SHWEF02019028

ACCESSION NO : 0028VE000537 AGE : 32 Years SEX : Female

DRAWN :

RECEIVED : 14/05/2022 11:13

REPORTED : 18/05/2022 15:05

REFERRING DOCTOR : DR. MEDIWHEEL

CLIENT PATIENT ID :

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THROAT

NO ABNORMALITY DETECTED

TONSILS

NOT ENLARGED

**SUMMARY**

RELEVANT HISTORY

NOT SIGNIFICANT

RELEVANT GP EXAMINATION FINDINGS

NOT SIGNIFICANT

RELEVANT NON PATHOLOGY DIAGNOSTICS

CHEST X RAY PA-RT CP ANGLE BLUNTED WITH PLEURAL REACTION

REMARKS / RECOMMENDATIONS

FOLLOW UP TO MD PHYSICIAN/GYNAECOLOGIST WITH ALL REPORTS FOR FURTHER MANAGEMENT. GENERAL PHYSICAL EXAMINATION IS NORMAL."

**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 - NLR-

The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.

(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients ; A.-P. Yang, et al.; International Immunopharmacology 84 (2020) 106504 This ratio element is a calculated parameter and out of NABL scope.)

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 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"

GLUCOSE, FASTING, PLASMA-

ADA 2021 guidelines for adults, after 8 hrs fasting is as follows:

Pre-diabetics: 100 - 125 mg/dL

Diabetic: &gt; 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 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 glycosylated 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 glycosylated 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 glycosylated 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."

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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 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 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 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). 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 are 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, Waldenström'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-





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## 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

## 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 globulin

Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease

Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.

## ALBUMIN, SERUM-

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

## 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 hyperfunction, 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,

## THYROID PANEL, SERUM-

Triiodothyronine 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.



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Patient Ref. No. 28000001068774

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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 (µg/dL)	TSH3G (µIU/mL)	TOTAL T3 (ng/dL)
Pregnancy	6.6 - 12.4	0.1 - 2.5	81 - 190
1st Trimester	6.6 - 15.5	0.2 - 3.0	100 - 260
2nd Trimester	6.6 - 15.5	0.3 - 3.0	100 - 260
3rd Trimester			

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

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

Reference:

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. Kliegman 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.

MEDICAL

HISTORY-\*\*\*\*\*  
 THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVIOABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE. HOWEVER, ALL EXAMINATIONS AND INVESTIGATIONS HAVE BEEN CONDUCTED BY OUR PANEL OF DOCTORS.

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**MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE****ULTRASOUND ABDOMEN****ULTRASOUND ABDOMEN**

## HEPATOMEGALY

**\*\*End Of Report\*\***Please visit [www.srlworld.com](http://www.srlworld.com) for related Test Information for this accession

Dr. Noopur Gupta  
Pathologist

Dr Dipti Bisaria  
Pathologist

Dr. Shyla Goel, M.B.B.S ,DCP  
Pathologist

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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
  - b. Incorrect specimen type
  - c. Request for testing is withdrawn by the ordering doctor or patient
  - 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.
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