Patient Ref. No. 775000000624976

CLIENT CODE : C000138384

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
30-B, CHOWRINGEE MANSION, JAWAHARLAL NEHRU ROAD,
KOLKATA, 700016
WEST BENGAL, INDIA
Tel : 033-22267333,46019048, Fax : 033-22271324
CIN - U74899PB1995PLC045956

PATIENT NAME : TIMIR BARAN MOITRA PATIENT ID : **TIMIM08016482**

ACCESSION NO : **0082VD030917** AGE : 58 Years SEX : Male

DRAWN : 20/04/2022 08:39 RECEIVED : 20/04/2022 08:42 REPORTED : 21/04/2022 15:13

REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL) CLIENT PATIENT ID :

Test Report Status **Preliminary**	Results		Biological Reference Interval	Units
MEDI WHEEL FULL BODY HEALTH CHECK UP ABOVE 40 MALE				
BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN	15.0		13.0 - 17.0	g/dL
RED BLOOD CELL COUNT	4.89		4.5 - 5.5	mil/µL
WHITE BLOOD CELL COUNT	6.06		4.0 - 10.0	thou/µL
PLATELET COUNT	160		150 - 410	thou/µL
RBC AND PLATELET INDICES				
HEMATOCRIT	45.4		40 - 50	%
MEAN CORPUSCULAR VOL	92.8		83 - 101	fL
MEAN CORPUSCULAR HGB.	30.6		27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	33.0		31.5 - 34.5	g/dL
MENTZER INDEX	19.0			
RED CELL DISTRIBUTION WIDTH	**14.4**	**High**	11.6 - 14.0	%
MEAN PLATELET VOLUME	**13.2**	**High**	6.8 - 10.9	fL
WBC DIFFERENTIAL COUNT - NLR				
SEGMENTED NEUTROPHILS	60		40 - 80	%
ABSOLUTE NEUTROPHIL COUNT	3.64		2.0 - 7.0	thou/µL
LYMPHOCYTES	24		20 - 40	%
ABSOLUTE LYMPHOCYTE COUNT	1.45		1 - 3	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	2.5			
EOSINOPHILS	**8**	**High**	1 - 6	%
ABSOLUTE EOSINOPHIL COUNT	0.48		0.02 - 0.50	thou/µL
MONOCYTES	7		2 - 10	%
ABSOLUTE MONOCYTE COUNT	0.42		0.20 - 1.00	thou/µL
BASOPHILS	1		0 - 2	%
ABSOLUTE BASOPHIL COUNT	0.06		0.02 - 0.10	thou/µL
MORPHOLOGY				
RBC	NORMOCYTIC NORMOCHROMIC			
WBC	NO IMMATURE CELLS SEEN.			
PLATELETS	ADEQUATE			
ERYTHRO SEDIMENTATION RATE, BLOOD				
SEDIMENTATION RATE (ESR)	6		0 - 14	mm at 1 hr

METHOD : AUTOMATED (PHOTOMETRICAL CAPILLARY STOPPED FLOW KINETIC ANALYSIS)"

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Test Report Status **Preliminary**	Results	Biological Reference Interval	Units
GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD			
GLYCOSYLATED HEMOGLOBIN (HBA1C)	5.4	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%
METHOD : HPLC			
MEAN PLASMA GLUCOSE	108.3	< 116.0	mg/dL

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PATIENT NAME : TIMIR BARAN MOITRA PATIENT ID : **TIMIM08016482**

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REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL) CLIENT PATIENT ID :

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

SRL LIMITED - KOLKATA REF. LAB **PATIENT REP**
Bio-Rad Variant II Turbo CDM 5.4 S/N : 16043 **V2TURBO_A1c**

Patient Data

Sample ID:	8210341339
Patient ID:	0082VD030917
Name:	TIMIRBARANMOITRA
Physician:	
Sex:	
DOB:	

Comments:

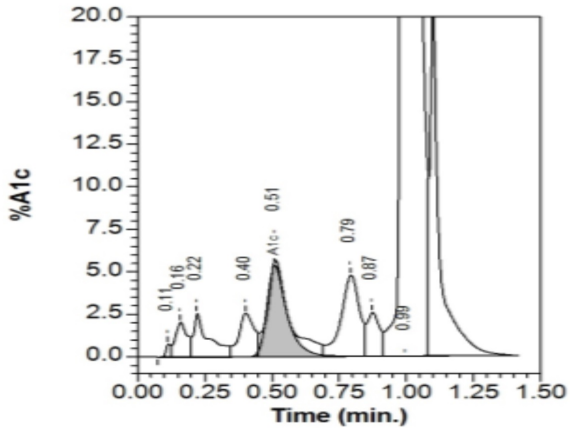
Analysis Data

Analysis Performed:	20/APR/2022 19:06:29
Injection Number:	10303
Run Number:	573
Rack ID:	
Tube Number:	6
Report Generated:	20/APR/2022 19:55:41
Operator ID:	

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
Unknown	---	0.1	0.111	2857
A1a	---	0.9	0.156	19343
A1b	---	1.5	0.218	31114
LA1c	---	1.4	0.403	29804
A1c	5.4	---	0.510	86470
P3	---	3.4	0.791	69821
P4	---	1.2	0.871	25583
Ao	---	87.1	0.994	1792690

Total Area: 2,057,681

HbA1c (NGSP) = 5.4 %



GLUCOSE, FASTING, PLASMA

GLUCOSE, FASTING, PLASMA	76	74 - 100	mg/dL

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Test Report Status **Preliminary**	Results		Biological Reference Interval	Units
METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)				
GLUCOSE, POST-PRANDIAL, PLASMA				
GLUCOSE, POST-PRANDIAL, PLASMA	119		140 Normal 140 - 199 Pre-diabetic > or = 200 Diabetic	mg/dL
METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)				
CORONARY RISK PROFILE (LIPID PROFILE), SERUM.				
CHOLESTEROL	**201**	**High**	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD : ENZYMATIC ASSAY				
TRIGLYCERIDES	**221**	**High**	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
METHOD : GLYCEROL PHOSPHATE OXIDASE				
HDL CHOLESTEROL	**36**	**Low**	Low : < 40 High : > / = 60	mg/dL
METHOD : ACCELERATOR SELECTIVE DETERGENT METHODOLOGY				
DIRECT LDL CHOLESTEROL	**141**	**High**	Adult Optimal : < 100 Near optimal : 100 - 129 Borderline high : 130 - 159 High : 160 - 189 Very high : > or = 190	mg/dL
METHOD : MEASURED, LIQUID SELECTIVE DETERGENT				
NON HDL CHOLESTEROL	**165**	**High**	Desirable: Less than 130 Above Desirable: 130-159 Borderline High: 160-189 High: 190 -219 Very High: >or = 220	mg/dL
METHOD : CALCULATED				
CHOL/HDL RATIO	**5.6**	**High**	3.3 - 4.4 Low Risk 4.5-7.0 Average Risk 7.1 - 11.0 Moderate Risk > 11.0 High Risk	
METHOD : CALCULATED				
LDL/HDL RATIO	**3.9**	**High**	0.5 - 3.0 Desirable/ Low Risk 3.1-6.0 Borderline /Moderate Risk > 6.0 High Risk	
METHOD : CALCULATED				
VERY LOW DENSITY LIPOPROTEIN	**44.2**	**High**	< or = 30	mg/dL
METHOD : CALCULATED				
LIVER FUNCTION PROFILE, SERUM				
BILIRUBIN, TOTAL	0.76		0.2 - 1.2	mg/dL

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Test Report Status **Preliminary**	Results		Biological Reference Interval	Units
METHOD : DIAZONIUM SALT				
BILIRUBIN, DIRECT	0.25		0.0 - 0.5	mg/dL
METHOD : DIAZO REACTION				
BILIRUBIN, INDIRECT	0.51		0.1 - 1.0	mg/dL
METHOD : CALCULATED				
TOTAL PROTEIN	7.3		6.0 - 8.30	g/dL
METHOD : BIURET				
ALBUMIN	3.9		3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)				
GLOBULIN	3.4		2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO	1.1		1 - 2.1	RATIO
METHOD : CALCULATED PARAMETER				
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	23		5 - 34	U/L
METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	21		0 - 55	U/L
METHOD : ENZYMATIC (NADH (WITHOUT P-5'-P)				
ALKALINE PHOSPHATASE	84		40 - 150	U/L
METHOD : PARA-NITROPHENYL PHOSPHATE				
GAMMA GLUTAMYL TRANSFERASE (GGT)	20		11 - 59	U/L
METHOD : L-GAMMA-GLUTAMYL-4-NITROANALIDE /GLYCYLGLYCINE KINETIC METHOD				
LACTATE DEHYDROGENASE	**229**	**High**	125 - 220	U/L
METHOD : IFCC LACTATE TO PYRUVATE				
SERUM BLOOD UREA NITROGEN				
BLOOD UREA NITROGEN	10		8.4 - 25.7	mg/dL
METHOD : UREASE METHOD				
CREATININE, SERUM				
CREATININE	0.89		0.72 - 1.25	mg/dL
METHOD : KINETIC ALKALINE PICRATE				
BUN/CREAT RATIO				
BUN/CREAT RATIO	11.24		5.0 - 15.0	
URIC ACID, SERUM				
URIC ACID	6.1		3.5 - 7.2	mg/dL
METHOD : URICASE				
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN	7.3		6.0 - 8.3	g/dL
METHOD : BIURET				
ALBUMIN, SERUM				

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Test Report Status **Preliminary**	Results	Biological Reference Interval	Units
ALBUMIN	3.9	3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)			
GLOBULIN			
GLOBULIN	3.4	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAMETER			
ELECTROLYTES (NA/K/CL), SERUM			
SODIUM	144	136 - 145	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			
POTASSIUM	3.80	3.5 - 5.1	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			
CHLORIDE	104	98 - 107	mmol/L
METHOD : ION SELECTIVE ELECTRODE TECHNOLOGY INDIRECT			
URINALYSIS			
COLOR	PALE YELLOW		
APPEARANCE	CLEAR		
PH	6.0	4.7 - 7.5	
SPECIFIC GRAVITY	1.025	1.003 - 1.035	
METHOD : DIPSTICK			
GLUCOSE	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			
PROTEIN	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			
UROBILINOGEN	NORMAL	NORMAL	
METHOD : DIPSTICK			
NITRITE	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			
PUS CELL (WBC'S)	2-3	0-5	/HPF
EPITHELIAL CELLS	2-3	0-5	/HPF
ERYTHROCYTES (RBC'S)	NOT DETECTED	NOT DETECTED	/HPF
CASTS	NOT DETECTED		
CRYSTALS	NOT DETECTED		

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Test Report Status **Preliminary**	Results	Biological Reference Interval	Units
BACTERIA	NOT DETECTED	NOT DETECTED	

Comments

URINALYSIS: MICROSCOPIC EXAMINATION IS CARRIED OUT ON CENTRIFUGED URINARY SEDIMENT.

THYROID PANEL, SERUM

T3	117.0	35 - 193	ng/dL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			
T4	8.25	4.87 - 11.71	µg/dL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			
TSH 3RD GENERATION	4.126	0.350 - 4.940	µIU/mL
METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY			

STOOL: OVA & PARASITE

COLOUR	BROWN		
METHOD : VISUAL			
CONSISTENCY	SEMI FORMED		
METHOD : MANUAL			
ODOUR	FAECAL		
METHOD : MANUAL			
MUCUS	**PRESENT**	NOT DETECTED	
METHOD : MANUAL			
VISIBLE BLOOD	ABSENT	ABSENT	
METHOD : VISUAL			
POLYMORPHONUCLEAR LEUKOCYTES	1-2	0 - 5	/HPF
METHOD : MICROSCOPIC EXAMINATION			
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
METHOD : MICROSCOPIC EXAMINATION			
MACROPHAGES	NOT DETECTED	NOT DETECTED	
METHOD : MICROSCOPIC EXAMINATION			
CHARCOT-LEYDEN CRYSTALS	NOT DETECTED	NOT DETECTED	
TROPHOZOITES	NOT DETECTED	NOT DETECTED	
METHOD : MICROSCOPIC EXAMINATION			
CYSTS	NOT DETECTED	NOT DETECTED	
METHOD : MICROSCOPIC EXAMINATION			
OVA	NOT DETECTED		
METHOD : MICROSCOPIC EXAMINATION			
LARVAE	NOT DETECTED	NOT DETECTED	
METHOD : MICROSCOPIC EXAMINATION			
ADULT PARASITE	NOT DETECTED		

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Test Report Status **Preliminary**	Results	Biological Reference Interval	Units
METHOD : VISUAL			
OCCULT BLOOD	NOT DETECTED	NOT DETECTED	
METHOD : MANUAL			
ABO GROUP & RH TYPE, EDTA WHOLE BLOOD			
ABO GROUP	TYPE O		
METHOD : GEL CARD METHOD			
RH TYPE	POSITIVE		
METHOD : GEL CARD METHOD			
XRAY-CHEST	RESULT PENDING		
TMT OR ECHO			
TMT OR ECHO	ECHO DONE INSTEAD OF TMT; ECHO - NORMAL STUDY.		
ECG			
ECG	LEFT AXIS DEVIATION		
MEDICAL HISTORY			
RELEVANT PRESENT HISTORY	HYPERTENSIVE (8 YRS) : IS ON MEDICATION		
RELEVANT PAST HISTORY	NOT SIGNIFICANT		
RELEVANT PERSONAL HISTORY	NOT SIGNIFICANT		
RELEVANT FAMILY HISTORY	FATHER : CANCER; MOTHER : HYPERTENSIVE, DIABETIC		
OCCUPATIONAL HISTORY	NOT SIGNIFICANT		
HISTORY OF MEDICATIONS	NOT SIGNIFICANT		
ANTHROPOMETRIC DATA & BMI			
HEIGHT IN METERS	1.76		mts
WEIGHT IN KGS.	86		Kgs
BMI	28	BMI & Weight Status as follows: Below 18.5: Underweight 18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese	kg/sqmts
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		

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Test Report Status **Preliminary**	Results	Biological Reference Interval	Units
LOWER LIMB	NORMAL		
NECK	NORMAL		
NECK LYMPHATICS / SALIVARY GLANDS	NOT ENLARGED OR TENDER		
THYROID GLAND	NOT ENLARGED		
CAROTID PULSATION	NORMAL		
TEMPERATURE	NORMAL		
PULSE	67/MINS		
RESPIRATORY RATE	NORMAL		
CARDIOVASCULAR SYSTEM			
BP	141/85		mm/Hg
PERICARDIUM	NORMAL		
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		
CENTRAL NERVOUS SYSTEM			
HIGHER FUNCTIONS	NORMAL		
CRANIAL NERVES	NORMAL		
CEREBELLAR FUNCTIONS	NORMAL		
SENSORY SYSTEM	NORMAL		
MOTOR SYSTEM	NORMAL		
REFLEXES	NORMAL		
MUSCULOSKELETAL SYSTEM			
SPINE	NORMAL		

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Test Report Status **Preliminary**	Results	Biological Reference Interval	Units
JOINTS	NORMAL		
BASIC EYE EXAMINATION			
CONJUNCTIVA	NORMAL		
EYELIDS	NORMAL		
EYE MOVEMENTS	NORMAL		
DISTANT VISION RIGHT EYE WITH GLASSES	6/6		
DISTANT VISION LEFT EYE WITH GLASSES	6/6		
NEAR VISION RIGHT EYE WITH GLASSES	N6		
NEAR VISION LEFT EYE WITH GLASSES	N6		
COLOUR VISION	NORMAL		
BASIC ENT EXAMINATION			
EXTERNAL EAR CANAL	NORMAL		
TYMPANIC MEMBRANE	NORMAL		
NOSE	NO ABNORMALITY DETECTED		
SINUSES	NORMAL		
THROAT	NO ABNORMALITY DETECTED		
TONSILS	NOT ENLARGED		
BASIC DENTAL EXAMINATION			
TEETH	NORMAL		
GUMS	HEALTHY		
SUMMARY			
REMARKS / RECOMMENDATIONS	Mr. MOITRA, A KNOWN HYPERTENSIVE (8 YRS), CAME FOR ANNUAL HEALTH CHECK UP. HE IS OVERWEIGHT (86 KGS). ADVISED : 1. SALT RESTRICTED MODIFIED DIET AS DISCUSSED. 2. REDUCE BODY WEIGHT (ESTIMATED BODY WEIGHT SHOULD BE : 76 KGS). 3. REGULAR PHYSICAL EXERCISE AND WALKING. 4. DRINK PLENTY OF WATER. 5. TO CONSULT COMPANY MEDICAL OFFICER /FAMILY PHYSICIAN.		

Comments

MEDICAL EXAMINATION DONE BY:
DR. B. N. JANA, MBBS, DCH
CONSULTANT
WELLNESS CLINIC
PARK STREET, KOLKATA

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Patient Ref. No. 775000000624976

CLIENT CODE : C000138384

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
30-B, CHOWRINGEE MANSION, JAWAHARLAL NEHRU ROAD,
KOLKATA, 700016
WEST BENGAL, INDIA
Tel : 033-22267333,46019048, Fax : 033-22271324
CIN - U74899PB1995PLC045956

PATIENT NAME : TIMIR BARAN MOITRA PATIENT ID : **TIMIM08016482**

ACCESSION NO : **0082VD030917** AGE : 58 Years SEX : Male

DRAWN : 20/04/2022 08:39 RECEIVED : 20/04/2022 08:42 REPORTED : 21/04/2022 15:13

REFERRING DOCTOR : DR. ACROFEMI HEALTHCARE LTD (MEDIWHEEL) CLIENT PATIENT ID :

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

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.
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"
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, 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, 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 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

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SOUTH WEST DELHI
NEW DELHI 110030
DELHI INDIA
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SRL Ltd
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Test Report Status **Preliminary**	Results	Biological Reference Interval	Units

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
• 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

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SOUTH WEST DELHI
NEW DELHI 110030
DELHI INDIA
8800465156

SRL Ltd
30-B, CHOWRINGEE MANSION, JAWAHARLAL NEHRU ROAD,
KOLKATA, 700016
WEST BENGAL, INDIA
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ACCESSION NO : **0082VD030917** AGE : 58 Years SEX : Male

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

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 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,
URINALYSIS-Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders
Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever
Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.
Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.
Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.
Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.
Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.
pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food can affect the pH of urine.
Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus.
Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.
Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of hemolytic anemia
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.
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

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

SRL Ltd
30-B, CHOWRINGEE MANSION, JAWAHARLAL NEHRU ROAD,
KOLKATA, 700016
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Levels in Pregnancy	TOTAL T4 (µg/dL)	TSH3G (µIU/mL)	TOTAL T3 (ng/dL)
First Trimester	6.6 - 12.4	0.1 - 2.5	81 - 190
2nd Trimester	6.6 - 15.5	0.2 - 3.0	100 - 260
3rd Trimester	6.6 - 15.5	0.3 - 3.0	100 - 260

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. Kilegman R.M., Jenson H. B. Nelson Text Book of Pediatrics, 17th Edition
STOOL: OVA & PARASITE-
Acute infective diarrhoea and gastroenteritis (diarrhoea with vomiting) are major causes of ill health and premature death in developing countries. Loss of water and electrolytes from the body can lead to severe dehydration which if untreated, can be rapidly fatal in young children, especially that are malnourished, hypoglycaemic, and generally in poor health.

Laboratory diagnosis of parasitic infection is mainly based on microscopic examination and the gross examination of the stool specimen. Depending on the nature of the parasite, the microscopic observations include the identification of cysts, ova, trophozoites, larvae or portions of adult structure. The two classes of parasites that cause human infection are the Protozoa and Helminths. The protozoan infections include amoebiasis mainly caused by Entamoeba histolytica and giardiasis caused by Giardia lamblia. The common helminthic parasites are Trichuris trichiura, Ascaris lumbricoides, Strongyloides stercoralis, Taenia sp. etc
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 INVIOLABLE 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 CHECK UP ABOVE 40 MALE	RESULT PENDING		
ULTRASOUND ABDOMEN	RESULT PENDING		

****End Of Report****
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Dr. Chaitali Ray, PHD
Biochemist

Dr.Anwesha Chatterjee
Pathologist

Dr.Himadri Mondal, MD
Consultant Microbiologist

Dr. B. N. Jana, MBBS, DCH
Consultant

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