



SRL Ltd
S.K. Tower, Hari Niwas, LBS Marg
THANE, 400602
MAHARASHTRA, INDIA
Tel: 9111591115, Fax: CIN - U74899PB1995PLC045956
Email : customercare.thane@srl.in

PATIENT NAME : MR. NAVNEET SHARMA			PATIENT ID : F	H.5614173
ACCESSION NO: 0181WC000706 AGE:	44 Years SEX : Male			
DRAWN : RECE	IVED: 14/03/2023 08:35		REPORTED : 16/03/2023	14:13
REFERRING DOCTOR : SELF			CLIENT PATIENT ID:	
CLINICAL INFORMATION :				
STOOL CANCEL				
Test Report Status <u>Final</u>	Results		Biological Reference Int	erval Units
MEDI WHEEL FULL BODY HEALTH CHECK	UP ABOVE 40 MALE			
BLOOD COUNTS, EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)	15.2		13.0 - 17.0	g/dL
METHOD : SLS- HEMOGLOBIN DETECTION METHOD				
RED BLOOD CELL (RBC) COUNT	5.39		4.5 - 5.5	mil/µL
METHOD : HYDRODYNAMIC FOCUSING BY DC DETECTION				
WHITE BLOOD CELL (WBC) COUNT	7.52		4.0 - 10.0	thou/µL
METHOD : FLUORESCENCE FLOW CYTOMETRY				
PLATELET COUNT	367		150 - 410	thou/µL
METHOD : HYDRODYNAMIC FOCUSING BY DC DETECTION				
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV)	46.7		40.0 - 50.0	%
METHOD : CUMULATIVE PULSE HEIGHT DETECTION METHO				
MEAN CORPUSCULAR VOLUME (MCV)	86.6		83.0 - 101.0	fL
METHOD : CALCULATED FROM RBC & HCT	22.2		27 0 22 0	
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	28.2		27.0 - 32.0	pg
METHOD : CALCULATED FROM THE RBC & HGB	22 F			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD : CALCULATED FROM THE HGB & HCT	32.5		31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW)	11.7		11.6 - 14.0	%
METHOD : CALCULATED FROM RBC SIZE DISTRIBUTION C	JRVE			
MENTZER INDEX	16.1			
MEAN PLATELET VOLUME (MPV)	10.8		6.8 - 10.9	fL
METHOD : CALCULATED FROM PLATELET COUNT & PLATELE	ET HEMATOCRIT			
WBC DIFFERENTIAL COUNT				
NEUTROPHILS	51		40 - 80	%
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING				
LYMPHOCYTES	34		20 - 40	%
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING				
MONOCYTES	6		2 - 10	%
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING				
EOSINOPHILS	9	High	1 - 6	%
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING				









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DELHI INDIA 8800465156				
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ABSOLUTE NEUTROPHIL COUNT METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	3.80		2.0 - 7.0	thou/µL
ABSOLUTE LYMPHOCYTE COUNT METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	2.53		1.0 - 3.0	thou/µL
ABSOLUTE MONOCYTE COUNT METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	0.43		0.2 - 1.0	thou/µL
ABSOLUTE EOSINOPHIL COUNT METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	0.67	High	0.02 - 0.50	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.5			
MORPHOLOGY				
RBC	NORMOCYTIC NORM	10CHRON	MIC	
WBC METHOD : MICROSCOPIC EXAMINATION	NORMAL MORPHOL	OGY		
PLATELETS	ADEQUATE			
ERYTHROCYTE SEDIMENTATION RATE (ESP BLOOD	R),WHOLE			
E.S.R	7		< 15	mm at 1 hr
GLYCOSYLATED HEMOGLOBIN(HBA1C), ED BLOOD	TA WHOLE			
HBA1C METHOD : HPLC	5.1		Non-diabetic Adult < 5.7 Pre-diabetes 5.7 - 6.4 Diabetes diagnosis: > or = 6.5 Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)	%
ESTIMATED AVERAGE GLUCOSE(EAG)	99.7		< 116.0	mg/dL
METHOD : CALCULATED PARAMETER			. 11010	ing/ ac
GLUCOSE FASTING,FLUORIDE PLASMA				
FBS (FASTING BLOOD SUGAR)	83		Normal 75 - 99 Pre-diabetics: 100 – 125 Diabetic: > or = 126	mg/dL
	CE.			

METHOD : ENZYMATIC REFERENCE METHOD WITH HEXOKINASE





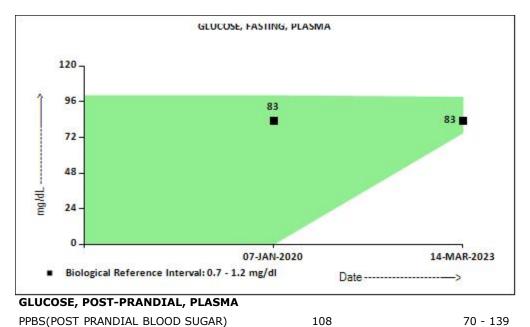




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Test Report Status	Final	Results	Biological Reference Interval Uni	its



mg/dL

PPBS(POST PRANDIAL BLOOD SUGAR) METHOD : ENZYMATIC REFERENCE METHOD WITH HEXOKINASE





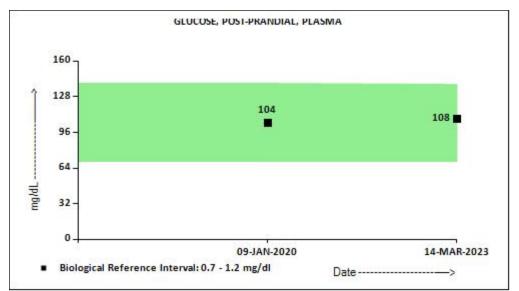




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(

Test Report Status	Final	Results	Biological Reference Interval	Units



LIPID PROFILE, SERUM

,,, _,, _			
CHOLESTEROL, TOTAL	196	Desirable cholesterol level < 200 Borderline high cholesterol 200 - 239 High cholesterol > / = 240	mg/dL
METHOD : ENZYMATIC COLORIMETRIC ASSAY			
TRIGLYCERIDES	146	Normal: < 150 Borderline high: 150 - 199 High: 200 - 499 Very High: >/= 500	mg/dL
METHOD : ENZYMATIC COLORIMETRIC ASSAY			
HDL CHOLESTEROL	46	Low HDL Cholesterol <40	mg/dL
		High HDL Cholesterol >/= 60	

METHOD : ENZYMATIC, COLORIMETRIC





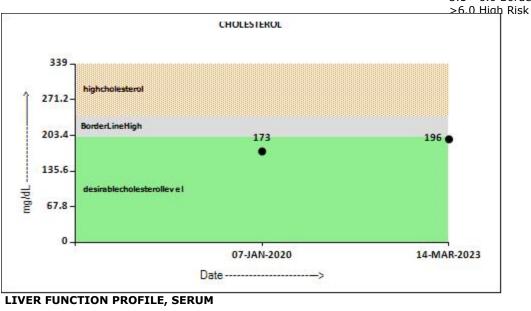




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CHOLESTEROL LDL	121	High Adult levels: mg Optimal < 100 Near optimal/above optimal: 100- 129 Borderline high : 130-159 High : 160-189 Very high : = 190	ı/dL	

METHOD : ENZYMATIC COLORIMETRIC ASSAY		Very high : = 190
NON HDL CHOLESTEROL	150	High Desirable : < 130
VERY LOW DENSITY LIPOPROTEIN	29.2	< OR = 30.0 mg/dL
CHOL/HDL RATIO	4.3	Low Risk : 3.3 - 4.4 Average Risk : 4.5 - 7.0 Moderate Risk : 7.1 - 11.0 High Risk : > 11.0
LDL/HDL RATIO	2.6	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk



BILIRUBIN, TOTAL

0.75

Upto 1.2

mg/dL









FH.5614173

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CLINICAL INFORMATION :

STOOL CANCEL

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METHOD : COLORIMETRIC DIAZO			0.00	<i>,</i>
BILIRUBIN, DIRECT	0.30		< 0.30	mg/dL
BILIRUBIN, INDIRECT	0.45		0.1 - 1.0	mg/dL
TOTAL PROTEIN	7.4		6.0 - 8.0	g/dL
METHOD : COLORIMETRIC				
ALBUMIN	4.6		3.97 - 4.94	g/dL
METHOD : COLORIMETRIC				
GLOBULIN	2.8		2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO	1.6		1.0 - 2.1	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	25		< OR = 50	U/L
METHOD : UV ABSORBANCE				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	33		< OR = 50	U/L
METHOD : UV ABSORBANCE				
ALKALINE PHOSPHATASE	118		40 - 129	U/L
METHOD : COLORIMETRIC				
GAMMA GLUTAMYL TRANSFERASE (GGT)	21		0 - 60	U/L
METHOD : ENZYMATIC, COLORIMETRIC				
LACTATE DEHYDROGENASE	227	High	125 - 220	U/L
METHOD : UV ABSORBANCE				
BLOOD UREA NITROGEN (BUN), SERUM				
BLOOD UREA NITROGEN	7		6 - 20	mg/dL
METHOD : ENZYMATIC ASSAY				
CREATININE, SERUM				
CREATININE	0.63	Low	0.7 - 1.2	mg/dL
METHOD : COLORIMETRIC				







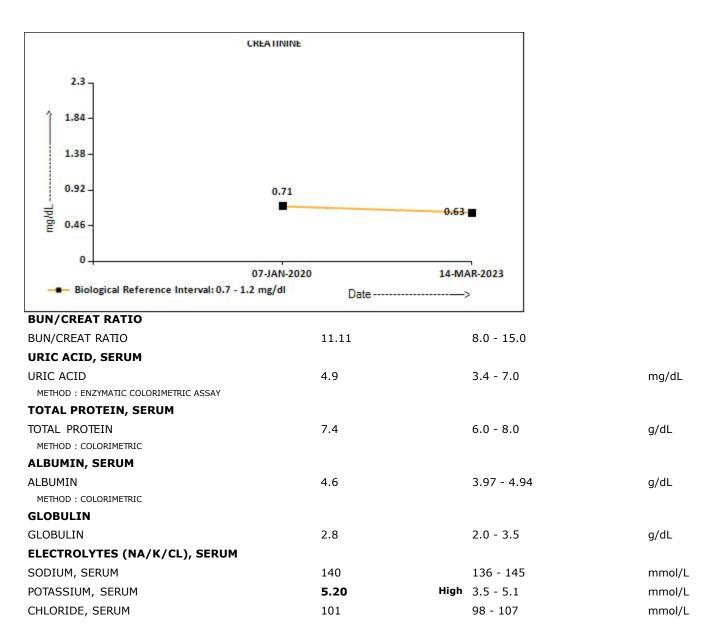


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ACROFEMI HEALTHCARE LTD (MEDIWHEEL F-703, F-703, LADO SARAI, MEHRAULI SOUTH WEST DELHI NEW DELHI 110030 DELHI INDIA 8800465156

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8800465156						
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REFERRING DOCTOR :	SELF			CLIENT PATIENT ID :		
CLINICAL INFORMATIO)N :					
STOOL CANCEL						
Test Report Status	Final	Results		Biological Reference Interva	l Units	
PHYSICAL EXAMINA	TION, URINE					
COLOR	,	PALE YELLOW				
APPEARANCE		CLEAR				
CHEMICAL EXAMINA	TION, URINE					
PH		6.5		4.7 - 7.5		
METHOD : USING PH PAPER						
SPECIFIC GRAVITY		1.005		1.003 - 1.035		
METHOD : MULTISTIX						
PROTEIN		NOT DETECTED		NOT DETECTED		
GLUCOSE		NOT DETECTED		NOT DETECTED		
KETONES		NOT DETECTED		NOT DETECTED		
BLOOD		NOT DETECTED		NOT DETECTED		
UROBILINOGEN		NORMAL		NORMAL		
NITRITE		NOT DETECTED		NOT DETECTED		
LEUKOCYTE ESTERASE		NOT DETECTED		NOT DETECTED		
MICROSCOPIC EXAM	INATION, URINE					
RED BLOOD CELLS		NOT DETECTED		NOT DETECTED	/HPF	
PUS CELL (WBC'S)		2-3		0-5	/HPF	
EPITHELIAL CELLS		1-2		0-5	/HPF	
CASTS		NOT DETECTED				
METHOD : MICROSCOPIC EX	(AMINATION					
CRYSTALS		NOT DETECTED				
METHOD : MICROSCOPIC EX	(AMINATION					
BACTERIA		NOT DETECTED		NOT DETECTED		
YEAST		NOT DETECTED		NOT DETECTED		
THYROID PANEL, SE	RUM					
T3		138.0		80 - 200	ng/dL	
METHOD : ELECTROCHEMILU	JMINESCENCE					
T4		7.85		5.1 - 14.1	µg/dL	
METHOD : ELECTROCHEMILL		6 4 2 0		0.27 4.2		
TSH (ULTRASENSITIVE)		6.130	нıgh	0.27 - 4.2	µIU/mL	











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REMARK	SAMPLE NOT RECEIVE	D	
ABO GROUP & RH TYPE, EDTA WHOLE BLOO	DD		
ABO GROUP	TYPE B		
METHOD : GEL COLUMN AGGLUTINATION METHOD.			
RH TYPE	POSITIVE		
METHOD : GEL COLUMN AGGLUTINATION METHOD.			
XRAY-CHEST			
IMPRESSION	NO ABNORMALITY DE	IECTED	
TMT OR ECHO			
TMT OR ECHO	NEGATIVE		
ECG			
ECG	WITHIN NORMAL LIMI	TS	
MEDICAL HISTORY			
RELEVANT PRESENT HISTORY	NOT SIGNIFICANT		
RELEVANT PAST HISTORY		COVID IN 2020.HOSPITALIZED FOR ISOLATION.	
RELEVANT PERSONAL HISTORY		/ NO ALLERGIES / NO SMOKING / NO ALCOHOL.	
RELEVANT FAMILY HISTORY	NOT SIGNIFICANT		
HISTORY OF MEDICATIONS	NOT SIGNIFICANT		
ANTHROPOMETRIC DATA & BMI			
HEIGHT IN METERS	1.72	mts	
WEIGHT IN KGS.	74	Kgs	
BMI	25	BMI & Weight Status as follows: kg/sqmts Below 18.5: Underweight 18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese	
GENERAL EXAMINATION			
MENTAL / EMOTIONAL STATE	NORMAL		
PHYSICAL ATTITUDE	NORMAL		
GENERAL APPEARANCE / NUTRITIONAL STATUS	HEALTHY		
BUILT / SKELETAL FRAMEWORK	AVERAGE		

NORMAL NORMAL

NORMAL



FACIAL APPEARANCE

SKIN UPPER LIMB







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LOWER LIMB	NORMAL	
NECK	NORMAL	
NECK LYMPHATICS / SALIVARY GLANDS	NOT ENLARGED OR TEI	NDER
THYROID GLAND	NOT ENLARGED	
CAROTID PULSATION	NORMAL	
TEMPERATURE	NORMAL	
PULSE	78/MIN.REGULAR, ALL BRUIT	PERIPHERAL PULSES WELL FELT, NO CAROTID
RESPIRATORY RATE	NORMAL	
CARDIOVASCULAR SYSTEM		
BP	150/90 MM HG (SUPINE)	mm/Hg
PERICARDIUM	NORMAL	
APEX BEAT	NORMAL	
HEART SOUNDS	NORMAL	
MURMURS	ABSENT	
RESPIRATORY SYSTEM		
SIZE AND SHAPE OF CHEST	NORMAL	
MOVEMENTS OF CHEST	SYMMETRICAL	
BREATH SOUNDS INTENSITY	NORMAL	
BREATH SOUNDS QUALITY	VESICULAR (NORMAL)	
ADDED SOUNDS	ABSENT	
PER ABDOMEN		
APPEARANCE	NORMAL	
VENOUS PROMINENCE	ABSENT	
LIVER	NOT PALPABLE	
SPLEEN	NOT PALPABLE	
HERNIA	ABSENT	
CENTRAL NERVOUS SYSTEM		
HIGHER FUNCTIONS	NORMAL	
CRANIAL NERVES	NORMAL	
CEREBELLAR FUNCTIONS	NORMAL	
SENSORY SYSTEM	NORMAL	









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MOTOR SYSTEM	NORMAL	
REFLEXES	NORMAL	
MUSCULOSKELETAL SYSTEM	NORMAL	
SPINE	NORMAL	
JOINTS	NORMAL	
BASIC EYE EXAMINATION		
CONJUNCTIVA	NORMAL	
EYELIDS	NORMAL	
EYE MOVEMENTS	NORMAL	
CORNEA	NORMAL	
DISTANT VISION RIGHT EYE WITHOUT GLASSES	WITHIN NORMAL LIM	IT
DISTANT VISION LEFT EYE WITHOUT GLASSES	WITHIN NORMAL LIM	IT
NEAR VISION RIGHT EYE WITHOUT GLASSES	REDUCED VISUAL AC	UITY N/18
NEAR VISION LEFT EYE WITHOUT GLASSES	REDUCED VISUAL AC	UITY N/18
NEAR VISION RIGHT EYE WITH GLASSES	WITHIN NORMAL LIM	IT
NEAR VISION LEFT EYE WITH GLASSES	WITHIN NORMAL LIM	IT
COLOUR VISION	NORMAL	
SUMMARY		
RELEVANT HISTORY	NOT SIGNIFICANT	
RELEVANT GP EXAMINATION FINDINGS	NOT SIGNIFICANT	
REMARKS / RECOMMENDATIONS	EVALUATION BY PHYS	5 DAYS. IF PERSISTENTLY HIGH, WILL REQUIRE SICIAN.LOW SALT DIET. 30-40 MIN DAILY.ADD YOGA, PRANAYAM

MEDITATION TO DAILY ROUTINE. LOW FAT, LOW CALORIE, LOW CARBOHYDRATE, HIGH FIBRE DIET, REPEAT THYROID PROFILE, LIPID PROFILE AFTER 3 MONTHS OF DIET AND EXERCISE.

PHYSICIANS CONSUL FOR TREATMENT OF HYPOTHYROIDISM.

Interpretation(s)

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Scan to View Details

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-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive









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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. ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD-**TEST DESCRIPTION** :-

Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automated instruments are available to measure ESR.

ESR is not diagnostic it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an inflammatory condition.CRP is superior to ESR because it is more sensitive and reflects a more rapid change. TEST INTERPRETATION

Increase in: Infections, Vasculities, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging.

Finding a very accelerated ESR(>100 mm/hour) in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias, Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis). In pregnancy BRI in first trimester is 0-48 mm/hr(62 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum.

Decreased in: Polycythermia vera, Sickle cell anemia

LIMITATIONS

False elevated ESR : Increased fibrinogen, Drugs(Vitamin A, Dextran etc), Hypercholesterolemia False Decreased : Poikilocytosis,(SickleCells,spherocytes),Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine,

salicylates)

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(HBA1C), EDTA WHOLE BLOOD-**Used For**:

1. Evaluating the long-term control of blood glucose concentrations in diabetic patients.

2. Diagnosing diabetes.

3. Identifying patients at increased risk for diabetes (prediabetes).

The ADA recommends measurement of HbAic (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patients metabolic control has remained continuously within the target range.

- eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.
 eAG gives an evaluation of blood glucose levels for the last couple of months.
 eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c 46.7

HbA1c Estimation can get affected due to :

1. Shortened Erythrocyte survival : Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss, hemolytic anemia) will falsely lower HbA1c test results. Fructosamine is recommended in these patients which indicates diabetes control over 15 days.

2.Vitamin C & E are reported to falsely lower test results.(possibly by inhibiting glycation of hemoglobin.

3. Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia, uremia, hyperbilirubinemia, chronic alcoholism, chronic ingestion of salicylates & opiates addiction are reported to interfere with some assay methods, falsely increasing results.

4. Interference of hemoglobinopathies in HbA1c estimation is seen in

a) Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c.
 b) Heterozygous state detected (D10 is corrected for HbS & HbC trait.)

c) HbF > 25% on alternate paltform (Boronate affinity chromatography) is recommended for testing of HbA1c. Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy GLUCOSE FASTING,FLUORIDE PLASMA-**TEST DESCRIPTION**

Normally, the glucose concentration in extracellular fluid is closely regulated so that a source of energy is readily available to tissues and sothat no glucose is excreted in the urine.

Increased in:Diabetes mellitus, Cushing' s syndrome (10 – 15%), chronic pancreatitis (30%). Drugs:corticosteroids,phenytoin, estrogen, thiazides. Decreased in :Pancreatic islet cell disease with increased insulin,insulinoma,adrenocortical insufficiency,hypopituitarism,diffuse liver disease, malignancy(adrenocortical,stomach,fibrosarcoma),infant of a diabetic mother,enzyme deficiency diseases(e.g.galactosemia),Drugs-insulin,ethanol,propranolol

sulfonylureas,tolbutamide,and other oral hypoglycemic agents.

NOTE: While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values), there is wide fluctuation within



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CLIENT CODE: C000138394 CLIENT'S NAME AND ADDRESS :

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PATIENT NAME : MR. NAVNEET S	HARMA	PATIENT ID : FH.5614173
ACCESSION NO : 0181WC000706	AGE : 44 Years SEX : Male	
DRAWN :	RECEIVED : 14/03/2023 08:35	REPORTED : 16/03/2023 14:13
REFERRING DOCTOR : SELF		CLIENT PATIENT ID:
CLINICAL INFORMATION :		
STOOL CANCEL		

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

individuals. Thus, glycosylated hemoglobin (HbA1c) levels are favored to monitor glycemic control.

High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glyosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc.

GLUCOSE, POST-PRANDIAL, PLASMA-High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glyosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc.Additional test HbA1c LIVER FUNCTION PROFILE, SERUM-

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice. Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, (adjustion 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 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

ALP is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bille ducts and bone. Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Pagets disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen Get 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.

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, Waldenstroms 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 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

BLOOD UREA NITROGEN (BUN), SERUM-**Causes of Increased** levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism) **Causes of decreased** level include 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, Muscuophy

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,Multiple Sclerosis TOTAL PROTEIN, SERUM-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, Waldenstroms 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.

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.











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Test Report Status <u>Final</u>	Results	Units
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MEDI WHEEL FULL BODY HEALTH CHECK UP ABOVE 40 MALE

ULTRASOUND ABDOMEN ULTRASOUND ABDOMEN GRADE I FATTY LIVER.

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

CONDITIONS OF LABORATORY TESTING & REPORTING

 It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
 All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
 Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.

- 4. A requested test might not be performed if:
 - i. Specimen received is insufficient or inappropriate
 - ii. Specimen quality is unsatisfactory
 - iii. Incorrect specimen type

iv. Discrepancy between identification on specimen container label and test requisition form

5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.

6. Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.

7. Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.

- Test results cannot be used for Medico legal purposes.
 In case of queries please call customer care
- (91115 91115) within 48 hours of the report.

SRL Limited Fortis Hospital, Sector 62, Phase VIII, Mohali 160062





