DIAGNOSTIC REPORT

Patient Ref. No. 183000000232336

SRL Diagnostics

CLIENT CODE : C000138396

CLIENT'S NAME AND ADDRESS :
ACROFEMI HEALTHCARE LTD (MEDIWHEEL)
F-703, F-703, LADO SARAI, MEHRAULI
SOUTH WEST DELHI
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DELHI INDIA
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SRL Ltd
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COIMBATORE, 641002
TAMILNADU, INDIA
Tel : 9111591115, Fax : CIN - U74899PB1995PLC045956
Email : customercare.coimbatore@srl.in

PATIENT NAME : TAMILSELVAN E PATIENT ID : **TAMIM270390183**

ACCESSION NO : **0183VL001199** AGE : 32 Years SEX : Male ABHA NO :

DRAWN : 10/12/2022 00:00 RECEIVED : 10/12/2022 09:25 REPORTED : 14/12/2022 19:41

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

Test Report Status **Final**	Results		Biological Reference Interval	Units
MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE				
BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)	14.1		13.0 - 17.0	g/dL
RED BLOOD CELL (RBC) COUNT	4.78		4.5 - 5.5	mil/µL
WHITE BLOOD CELL (WBC) COUNT	6.90		4.0 - 10.0	thou/µL
PLATELET COUNT	217		150 - 410	thou/µL
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV)	**38.6**	**Low**	40 - 50	%
MEAN CORPUSCULAR VOLUME (MCV)	**81.0**	**Low**	83 - 101	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	29.5		27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)	**36.6**	**High**	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW)	12.7		11.6 - 14.0	%
MENTZER INDEX	17.0			
MEAN PLATELET VOLUME (MPV)	7.1		6.8 - 10.9	fL
WBC DIFFERENTIAL COUNT				
NEUTROPHILS	56		40 - 80	%
LYMPHOCYTES	34		20 - 40	%
MONOCYTES	5		2 - 10	%
EOSINOPHILS	4		1 - 6	%
BASOPHILS	1		< 1 - 2	%
ABSOLUTE NEUTROPHIL COUNT	3.86		2.0 - 7.0	thou/µL
ABSOLUTE LYMPHOCYTE COUNT	2.35		1.0 - 3.0	thou/µL
ABSOLUTE MONOCYTE COUNT	0.34		0.2 - 1.0	thou/µL
ABSOLUTE EOSINOPHIL COUNT	0.28		0.02 - 0.50	thou/µL
ABSOLUTE BASOPHIL COUNT	0.07		0.02 - 0.10	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.7			
ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD				
E.S.R	9		0 - 14	mm at 1 hr
GLUCOSE FASTING,FLUORIDE PLASMA				
FBS (FASTING BLOOD SUGAR)	85		74 - 99	mg/dL
GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD				

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HBA1C	5.6	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%
METHOD : TURBIDIMETRIC IMMUNOINHIBITION (TINIA) ASSAY			
ESTIMATED AVERAGE GLUCOSE(EAG)	114.0	< 116.0	mg/dL
GLUCOSE, POST-PRANDIAL, PLASMA			
PPBS(POST PRANDIAL BLOOD SUGAR)	101	70 - 139	mg/dL
LIPID PROFILE, SERUM			
CHOLESTEROL, TOTAL	149	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
TRIGLYCERIDES	73	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
METHOD : SPECTROPHOTOMETRY, ENZYMATIC ENDPOINT			
HDL CHOLESTEROL	43	< 40 Low >/=60 High	mg/dL
METHOD : DIRECT MEASURE - PEG			
CHOLESTEROL LDL	91	< 100 Optimal 100 - 129 Near optimal/ above optimal 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
NON HDL CHOLESTEROL	106	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
CHOL/HDL RATIO	3.5	3.3 - 4.4 Low Risk 4.5 - 7.0 Average Risk 7.1 - 11.0 Moderate Risk > 11.0 High Risk	
LDL/HDL RATIO	2.1	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	
VERY LOW DENSITY LIPOPROTEIN	14.6	</= 30.0	mg/dL
LIVER FUNCTION PROFILE, SERUM			

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BILIRUBIN, TOTAL	0.90		0.2 - 1.0	mg/dL
BILIRUBIN, DIRECT	0.10		0.0 - 0.2	mg/dL
BILIRUBIN, INDIRECT	0.8		0.1 - 1.0	mg/dL
TOTAL PROTEIN	7.0		6.4 - 8.2	g/dL
METHOD : BIURET REACTION, END POINT				
ALBUMIN	4.0		3.4 - 5.0	g/dL
METHOD : BCP DYE BINDING / SPECTOPHOTOMETER				
GLOBULIN	3		2.0 - 4.1	g/dL
ALBUMIN/GLOBULIN RATIO	1.3		1.0 - 2.1	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	19		15 - 37	U/L
METHOD : UV WITH PYRIDOXAL 5 PHOSPHATE / SPECTROPHOTOMETER				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	39		< 45.0	U/L
METHOD : UV WITH PYRIDOXAL 5 PHOSPHATE / SPECTROPHOTOMETER				
ALKALINE PHOSPHATASE	82		30 - 120	U/L
METHOD : IFCC PNPP WITH AMP BUFFER				
GAMMA GLUTAMYL TRANSFERASE (GGT)	30		15 - 85	U/L
LACTATE DEHYDROGENASE	145		100 - 190	U/L
METHOD : LACTATE PYRUVATE UV/ L.LACTATE / SPECTOPHOTOMETER				
BLOOD UREA NITROGEN (BUN), SERUM				
BLOOD UREA NITROGEN	8		6 - 20	mg/dL
CREATININE, SERUM				
CREATININE	**0.87**	**Low**	0.90 - 1.30	mg/dL
METHOD : PICRATE/ JAFFE / SPECTOPHOTOMETER				
BUN/CREAT RATIO				
BUN/CREAT RATIO	9.20		5.00 - 15.00	
URIC ACID, SERUM				
URIC ACID	5.6		3.5 - 7.2	mg/dL
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN	7.0		6.4 - 8.2	g/dL
METHOD : BIURET REACTION, END POINT				
ALBUMIN, SERUM				
ALBUMIN	4.0		3.4 - 5.0	g/dL
METHOD : BCP DYE BINDING / SPECTOPHOTOMETER				
GLOBULIN				
GLOBULIN	3		2.0 - 4.1	g/dL
ELECTROLYTES (NA/K/CL), SERUM				

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SODIUM, SERUM	**135.2**	**Low**	136 - 145	mmol/L
POTASSIUM, SERUM	4.37		3.50 - 5.10	mmol/L
CHLORIDE, SERUM	104.0		98 - 107	mmol/L
PHYSICAL EXAMINATION, URINE				
COLOR	PALE YELLOW			
APPEARANCE	CLEAR			
CHEMICAL EXAMINATION, URINE				
PH	6.5		4.7 - 7.5	
SPECIFIC GRAVITY	1.015		1.003 - 1.035	
PROTEIN	NOT DETECTED		NOT DETECTED	
GLUCOSE	NOT DETECTED		NOT DETECTED	
KETONES	NOT DETECTED		NOT DETECTED	
BLOOD	NOT DETECTED		NOT DETECTED	
BILIRUBIN	NOT DETECTED		NOT DETECTED	
UROBILINOGEN	NORMAL		NORMAL	
NITRITE	NOT DETECTED		NOT DETECTED	
LEUKOCYTE ESTERASE	NOT DETECTED		NOT DETECTED	
MICROSCOPIC EXAMINATION, URINE				
RED BLOOD CELLS	NOT DETECTED		NOT DETECTED	/HPF
PUS CELL (WBC'S)	2-3		0-5	/HPF
EPITHELIAL CELLS	2-3		0-5	/HPF
CASTS	NOT DETECTED			
CRYSTALS	NOT DETECTED			
BACTERIA	NOT DETECTED		NOT DETECTED	
YEAST	NOT DETECTED		NOT DETECTED	

Comments

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

THYROID PANEL, SERUM

T3	128.7	80.00 - 200.00	ng/dL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
T4	6.98	5.10 - 14.10	µg/dL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
TSH (ULTRASENSITIVE)	1.800	0.270 - 4.200	µIU/mL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			

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Interpretation(s)

Triiodothyronine T3 , **Thyroxine T4,** and **Thyroid Stimulating Hormone TSH** are thyroid hormones which affect 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.
Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called hypothyroidism.
In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hyperthyroidism, TSH levels are low.
owidctlparowidctlparBelow mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3.Measurement of the serum TT3 level is a more sensitive test for the diagnosis of hyperthyroidism, and measurement of TT4 is more useful in the diagnosis of 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. It is advisable to detect Free T3, FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4**.**

Sr. No.	TSH	Total T4	FT4	Total T3	Possible Conditions
1	High	Low	Low	Low	(1) Primary Hypothyroidism (2) Chronic autoimmune Thyroiditis (3) Post Thyroidectomy (4) Post Radio-Iodine treatment
2	High	Normal	Normal	Normal	(1)Subclinical Hypothyroidism (2) Patient with insufficient thyroid hormone replacement therapy (3) In cases of Autoimmune/Hashimoto thyroiditis (4). Isolated increase in TSH levels can be due to Subclinical inflammation, drugs like amphetamines, Iodine containing drug and dopamine antagonist e.g. domperidone and other physiological reasons.
3	Normal/Low	Low	Low	Low	(1) Secondary and Tertiary Hypothyroidism
4	Low	High	High	High	(1) Primary Hyperthyroidism (Graves Disease) (2) Multinodular Goitre (3)Toxic Nodular Goitre (4) Thyroiditis (5) Over treatment of thyroid hormone (6) Drug effect e.g. Glucocorticoids, dopamine, T4 replacement therapy (7) First trimester of Pregnancy
5	Low	Normal	Normal	Normal	(1) Subclinical Hyperthyroidism
6	High	High	High	High	(1) TSH secreting pituitary adenoma (2) TRH secreting tumor
7	Low	Low	Low	Low	(1) Central Hypothyroidism (2) Euthyroid sick syndrome (3) Recent treatment for Hyperthyroidism
8	Normal/Low	Normal	Normal	High	(1) T3 thyrotoxicosis (2) Non-Thyroidal illness
9	Low	High	High	Normal	(1) T4 Ingestion (2) Thyroiditis (3) Interfering Anti TPO antibodies

REF: 1. TIETZ Fundamentals of Clinical chemistry 2.Guidlines of the American Thyroid association duriing pregnancy and Postpartum, 2011.
NOTE: It is advisable to detect Free T3,FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4.TSH is not affected by variation in thyroid - binding protein. TSH has a diurnal rhythm, with peaks at 2:00 - 4:00 a.m. And troughs at 5:00 - 6:00 p.m. With ultradian variations.

PHYSICAL EXAMINATION,STOOL

COLOUR	BROWN	
CONSISTENCY	WELL FORMED	
MUCUS	NOT DETECTED	NOT DETECTED
VISIBLE BLOOD	ABSENT	ABSENT
ADULT PARASITE	NOT DETECTED	

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CHEMICAL EXAMINATION,STOOL			
STOOL PH	ACIDIC		
OCCULT BLOOD	NOT DETECTED	NOT DETECTED	
MICROSCOPIC EXAMINATION,STOOL			
PUS CELLS	0-1		/hpf
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
CYSTS	NOT DETECTED	NOT DETECTED	
OVA	NOT DETECTED		
LARVAE	NOT DETECTED	NOT DETECTED	
TROPHOZOITES	NOT DETECTED	NOT DETECTED	
FAT	ABSENT		
VEGETABLE CELLS	ABSENT		
ABO GROUP & RH TYPE, EDTA WHOLE BLOOD			
ABO GROUP	TYPE B		
RH TYPE	POSITIVE		
XRAY-CHEST			
»»	BOTH THE LUNG FIELDS ARE CLEAR		
»»	BOTH THE COSTOPHRENIC AND CARIOPHRENIC ANGELS ARE CLEAR		
»»	BOTH THE HILA ARE NORMAL		
»»	CARDIAC AND AORTIC SHADOWS APPEAR NORMAL		
»»	BOTH THE DOMES OF THE DIAPHRAM ARE NORMAL		
»»	VISUALIZED BONY THORAX IS NORMAL		
IMPRESSION	NO ABNORMALITY DETECTED		
TMT OR ECHO			
TMT OR ECHO	TMT DONE		
ECG			
ECG	WITHIN NORMAL LIMITS		
MEDICAL HISTORY			
RELEVANT PRESENT HISTORY	NOT SIGNIFICANT		
RELEVANT PAST HISTORY	NOT SIGNIFICANT		
RELEVANT PERSONAL HISTORY	MARRIED		
RELEVANT FAMILY HISTORY	MOTHER H/O DM		
OCCUPATIONAL HISTORY	NOT SIGNIFICANT		
HISTORY OF MEDICATIONS	NOT SIGNIFICANT		

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ANTHROPOMETRIC DATA & BMI			
HEIGHT IN METERS	1.79		mts
WEIGHT IN KGS.	80		Kgs
BMI	25	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		
LOWER LIMB	NORMAL		
NECK	NORMAL		
NECK LYMPHATICS / SALIVARY GLANDS	NOT ENLARGED OR TENDER		
THYROID GLAND	NOT ENLARGED		
CAROTID PULSATION	NORMAL		
BREAST (FOR FEMALES)	NORMAL		
TEMPERATURE	NORMAL		
PULSE	64/MINS, REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT		
RESPIRATORY RATE	NORMAL		
CARDIOVASCULAR SYSTEM			
BP	120/70 MM HG (SITTING)		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		

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BREATH SOUNDS QUALITY	VESICULAR (NORMAL)		
ADDED SOUNDS	ABSENT		
PER ABDOMEN			
APPEARANCE	NORMAL		
VENOUS PROMINENCE	ABSENT		
LIVER	NOT PALPABLE		
SPLEEN	NOT PALPABLE		
HERNIA	NORMAL		
CENTRAL NERVOUS SYSTEM			
HIGHER FUNCTIONS	NORMAL		
CRANIAL NERVES	NORMAL		
CEREBELLAR FUNCTIONS	NORMAL		
SENSORY SYSTEM	NORMAL		
MOTOR SYSTEM	NORMAL		
REFLEXES	NORMAL		
MUSCULOSKELETAL SYSTEM			
SPINE	NORMAL		
JOINTS	NORMAL		
BASIC EYE EXAMINATION			
CONJUNCTIVA	NORMAL		
EYELIDS	NORMAL		
EYE MOVEMENTS	NORMAL		
CORNEA	NORMAL		
DISTANT VISION RIGHT EYE WITHOUT GLASSES	6/6		
DISTANT VISION LEFT EYE WITHOUT GLASSES	6/6		
NEAR VISION RIGHT EYE WITHOUT GLASSES	N/6		
NEAR VISION LEFT EYE WITHOUT GLASSES	N/6		
COLOUR VISION	NORMAL		
BASIC ENT EXAMINATION			
EXTERNAL EAR CANAL	NORMAL		
TYMPANIC MEMBRANE	NORMAL		
NOSE	NO ABNORMALITY DETECTED		
SINUSES	CLEAR		
THROAT	NO ABNORMALITY DETECTED		

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TONSILS	NOT ENLARGED		
BASIC DENTAL EXAMINATION			
TEETH	NORMAL		
GUMS	HEALTHY		
SUMMARY			
RELEVANT HISTORY	NOT SIGNIFICANT		
RELEVANT GP EXAMINATION FINDINGS	NOT SIGNIFICANT		
RELEVANT LAB INVESTIGATIONS	WITHIN NORMAL LIMITS		
RELEVANT NON PATHOLOGY DIAGNOSTICS	NO ABNORMALITIES DETECTED		
REMARKS / RECOMMENDATIONS	NONE		
FITNESS STATUS			
FITNESS STATUS	FIT (AS PER REQUESTED PANEL OF TESTS)		

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-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.
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.
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

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PATIENT NAME : TAMILSELVAN E PATIENT ID : **TAMIM270390183**

ACCESSION NO : **0183VL001199** AGE : 32 Years SEX : Male ABHA NO :

DRAWN : 10/12/2022 00:00 RECEIVED : 10/12/2022 09:25 REPORTED : 14/12/2022 19:41

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

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

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:
Hypoglycemia is defined as a glucoseof < 50 mg/dL in men and< 40 mg/dL in women.
While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values), there is wide fluctuation within 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.
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 HbA1c (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.
1.eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.
2. eAG gives an evaluation of blood glucose levels for the last couple of months.
3. eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c - 46.7

HbA1c Estimation can get affected due to :
I.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.
II.Vitamin C & E are reported to falsely lower test results.(possibly by inhibiting glycation of hemoglobin.
III.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.
IV.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, 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-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
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:

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• 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,Multiple Sclerosis
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.
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.

****
FITNESS STATUS-
Conclusion on an individual's Fitness, which is commented upon mainly for Pre employment cases, is based on multi factorial findings and does not depend on any one single parameter. The final Fitness assigned to a candidate will depend on the Physician's findings and overall judgement on a case to case basis, details of the candidate's past and personal history as well as the comprehensiveness of the diagnostic panel which has been requested for .These are then further correlated with details of the job under consideration to eventually fit the right man to the right job.
Basis the above, SRL classifies a candidate's Fitness Status into one of the following categories:
• Fit (As per requested panel of tests) – SRL Limited gives the individual a clean chit to join the organization, on the basis of the General Physical Examination and the specific test panel requested for.
• Fit (with medical advice) (As per requested panel of tests) - This indicates that although the candidate can be declared as FIT to join the job, minimal problems have been detected during the Pre- employment examination. Examples of conditions which could fall in this category could be cases of mild reversible medical abnormalities such as height weight disproportions, borderline raised Blood Pressure readings, mildly raised Blood sugar and Blood Lipid levels, Hematuria, etc. Most of these relate to sedentary lifestyles and come under the broad category of life style disorders. The idea is to caution an individual to bring about certain lifestyle changes as well as seek a Physician's consultation and counseling in order to bring back to normal the mildly deranged parameters. For all purposes the individual is FIT to join the job.
• Fitness on Hold (Temporary Unfit) (As per requested panel of tests) - Candidate's reports are kept on hold when either the diagnostic tests or the physical findings reveal the presence of a medical condition which warrants further tests, counseling and/or specialist opinion, on the basis of which a candidate can either be placed into Fit, Fit (With Medical Advice), or Unfit category. Conditions which may fall into this category could be high blood pressure, abnormal ECG, heart murmurs, abnormal vision, grossly elevated blood sugars, etc.
• Unfit (As per requested panel of tests) - An unfit report by SRL Limited clearly indicates that the individual is not suitable for the respective job profile e.g. total color blindness in color related jobs.

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DIAGNOSTIC REPORT

Patient Ref. No. 183000000232336

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Test Report Status **Final**	Results	Units

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

GRADE I PROSTATOMEGALY

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

Dr.Karthick Prabhu R
Consultant Pathologist

CONDITIONS OF LABORATORY TESTING & REPORTING

1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
2. All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
3. Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.
4. A requested test might not be performed if:
   i. Specimen received is insufficient or inappropriate
   ii. Specimen quality is unsatisfactory
   iii. Incorrect specimen type
   iv. Discrepancy between identification on specimen container label and test requisition form
5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
6. Laboratory 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.
8. Test results cannot be used for Medico legal purposes.
9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

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

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