DIAGNOSTIC REPORT

Patient Ref. No. 775000002030518

CLIENT CODE : C000138376

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
PLOT NO.160,POCKET D-11 SECTOR 8, ROHINI

NEW DELHI, 110085
NEW DELHI, INDIA
Tel : 9111591115, Fax :
CIN - U74899PB1995PLC045956
Email : customercare.pitampura@srl.in

PATIENT NAME : HEEMA JAIN PATIENT ID : **HEEMF28116962**

ACCESSION NO : **0062VL002388** AGE : 53 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 20/12/2022 08:12:16 REPORTED : 21/12/2022 15:14:57

REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Test Report Status **Preliminary**	Results		Biological Reference Interval	Units
MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE				
BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN (HB) METHOD : SPECTROPHOTOMETRY	13.8		12.0 - 15.0	g/dL
RED BLOOD CELL (RBC) COUNT METHOD : IMPEDANCE	**4.87**	**High**	3.8 - 4.8	mil/µL
WHITE BLOOD CELL (WBC) COUNT METHOD : CELL COUNTER	6.04		4.0 - 10.0	thou/µL
PLATELET COUNT METHOD : CELL COUNTER+MICROSCOPY	359		150 - 410	thou/µL
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV) METHOD : CELL COUNTER	41.1		36 - 46	%
MEAN CORPUSCULAR VOLUME (MCV) METHOD : CELL COUNTER	84.4		83 - 101	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH) METHOD : CALCULATED PARAMETER	28.3		27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD : CALCULATED PARAMETER	33.5		31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW) METHOD : CELL COUNTER	13.5		11.6 - 14.0	%
MENTZER INDEX METHOD : CALCULATED PARAMETER	17.3			
MEAN PLATELET VOLUME (MPV) METHOD : CALCULATED PARAMETER	9.2		6.8 - 10.9	fL
WBC DIFFERENTIAL COUNT				
NEUTROPHILS METHOD : IMPEDENCE / MICROSCOPY	63		40 - 80	%
LYMPHOCYTES METHOD : IMPEDENCE / MICROSCOPY	31		20 - 40	%
MONOCYTES METHOD : IMPEDENCE / MICROSCOPY	04		2 - 10	%
EOSINOPHILS METHOD : IMPEDENCE / MICROSCOPY	02		1 - 6	%

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BASOPHILS	00		0 - 2	%
METHOD : MICROSCOPIC EXAMINATION				
ABSOLUTE NEUTROPHIL COUNT	3.81		2.0 - 7.0	thou/µL
METHOD : CALCULATED PARAMETER				
ABSOLUTE LYMPHOCYTE COUNT	1.87		1 - 3	thou/µL
METHOD : CALCULATED PARAMETER				
ABSOLUTE MONOCYTE COUNT	0.24		0.20 - 1.00	thou/µL
METHOD : CALCULATED PARAMETER				
ABSOLUTE EOSINOPHIL COUNT	0.12		0.02 - 0.50	thou/µL
METHOD : CALCULATED PARAMETER				
ABSOLUTE BASOPHIL COUNT	**0**	**Low**	0.02 - 0.10	thou/µL
METHOD : CALCULATED PARAMETER				
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	2.0			
METHOD : CALCULATED PARAMETER				
ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD				
E.S.R	17		0 - 20	mm at 1 hr
METHOD : WESTERGREN METHOD				
GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD				
HBA1C	**5.9**	**High**	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)	%
METHOD : HPLC				
ESTIMATED AVERAGE GLUCOSE(EAG)	**122.6**	**High**	< 116.0	mg/dL
GLUCOSE FASTING,FLUORIDE PLASMA				
FBS (FASTING BLOOD SUGAR)	**129**	**High**	74 - 99	mg/dL
GLUCOSE, POST-PRANDIAL, PLASMA				
PPBS(POST PRANDIAL BLOOD SUGAR)	**179**	**High**	70 - 139	mg/dL
LIPID PROFILE, SERUM				
CHOLESTEROL, TOTAL	158		< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL

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TRIGLYCERIDES	96		< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
HDL CHOLESTEROL	57		< 40 Low >/=60 High	mg/dL
METHOD : DIRECT MEASURE POLYMER-POLYANION				
CHOLESTEROL LDL	82		< 100 Optimal 100 - 129 Near optimal/ above optimal 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
NON HDL CHOLESTEROL	101		Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
CHOL/HDL RATIO	**2.8**	**Low**	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	1.4		0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	
VERY LOW DENSITY LIPOPROTEIN	19.2		</= 30.0	mg/dL
LIVER FUNCTION PROFILE, SERUM				
BILIRUBIN, TOTAL	0.53		0.2 - 1.0	mg/dL
BILIRUBIN, DIRECT	0.15		0.0 - 0.2	mg/dL
BILIRUBIN, INDIRECT	0.38		0.1 - 1.0	mg/dL
TOTAL PROTEIN	6.8		6.4 - 8.2	g/dL
ALBUMIN	4.0		3.4 - 5.0	g/dL
GLOBULIN	2.8		2.0 - 4.1	g/dL
METHOD : CALCULATED PARAMETER				
ALBUMIN/GLOBULIN RATIO	1.4		1.0 - 2.1	RATIO

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METHOD : CALCULATED PARAMETER				
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	22		15 - 37	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT)	**56**	**High**	< 34.0	U/L
ALKALINE PHOSPHATASE	98		30 - 120	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT)	25		5 - 55	U/L
LACTATE DEHYDROGENASE	140		100 - 190	U/L
BLOOD UREA NITROGEN (BUN), SERUM				
BLOOD UREA NITROGEN	11		6 - 20	mg/dL
METHOD : UREASE KINETIC				
CREATININE, SERUM				
CREATININE	**0.54**	**Low**	0.60 - 1.10	mg/dL
METHOD : SPECTROPHOTOMETRY, O-CRESOLPHTHALEIN COMPLEXONE				
BUN/CREAT RATIO				
BUN/CREAT RATIO	**20.37**	**High**	5.00 - 15.00	
URIC ACID, SERUM				
URIC ACID	6.0		2.6 - 6.0	mg/dL
METHOD : URICASE/CATALASE UV				
TOTAL PROTEIN, SERUM				
TOTAL PROTEIN	6.8		6.4 - 8.2	g/dL
ALBUMIN, SERUM				
ALBUMIN	4.0		3.4 - 5.0	g/dL
GLOBULIN				
GLOBULIN	2.8		2.0 - 4.1	g/dL
ELECTROLYTES (NA/K/CL), SERUM				
SODIUM, SERUM	142		136 - 145	mmol/L
METHOD : ISE INDIRECT				
POTASSIUM, SERUM	4.35		3.50 - 5.10	mmol/L
CHLORIDE, SERUM	104		98 - 107	mmol/L
METHOD : ISE INDIRECT				

Interpretation(s)

PHYSICAL EXAMINATION, URINE

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COLOR	PALE YELLOW		
METHOD : MANUAL			
APPEARANCE	**SLIGHTLY HAZY**		
METHOD : MANUAL			
CHEMICAL EXAMINATION, URINE			
PH	5.5	4.7 - 7.5	
METHOD : DIPSTICK			
SPECIFIC GRAVITY	1.015	1.003 - 1.035	
METHOD : DIPSTICK			
PROTEIN	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK / MANUAL			
GLUCOSE	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK / MANUAL			
KETONES	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK / MANUAL			
BLOOD	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			
BILIRUBIN	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK / MANUAL			
UROBILINOGEN	NORMAL	NORMAL	
METHOD : DIPSTICK / MANUAL			
NITRITE	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			
LEUKOCYTE ESTERASE	**DETECTED (++)**	NOT DETECTED	
METHOD : DIPSTICK			
MICROSCOPIC EXAMINATION, URINE			
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
METHOD : MICROSCOPIC EXAMINATION			
PUS CELL (WBC'S)	**15-20**	0-5	/HPF
METHOD : MICROSCOPIC EXAMINATION			
EPITHELIAL CELLS	**10-15**	0-5	/HPF
METHOD : MICROSCOPY			
CASTS	NOT DETECTED		
METHOD : MICROSCOPY			

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CRYSTALS	NOT DETECTED			
METHOD : MICROSCOPY				
BACTERIA	NOT DETECTED		NOT DETECTED	
YEAST	NOT DETECTED		NOT DETECTED	
METHOD : MICROSCOPY				
REMARKS	NOTE:- MICROSCOPIC EXAMINATION OF URINE IS PERFORMED BY CENTRIFUGE URINARY SEDIMENT.			
METHOD : MANUAL				
Interpretation(s)				
THYROID PANEL, SERUM				
T3	118.30		Non-Pregnant Women 80.0 - 200.0 Pregnant Women 1st Trimester:105.0 - 230.0 2nd Trimester:129.0 - 262.0 3rd Trimester:135.0 - 262.0	ng/dL
T4	8.53		Non-Pregnant Women 5.10 - 14.10 Pregnant Women 1st Trimester: 7.33 - 14.80 2nd Trimester: 7.93 - 16.10 3rd Trimester: 6.95 - 15.70	µg/dL
TSH (ULTRASENSITIVE)	**5.290**	**High**	Non Pregnant Women 0.27 - 4.20 Pregnant Women 1st Trimester: 0.33 - 4.59 2nd Trimester: 0.35 - 4.10 3rd Trimester: 0.21 - 3.15	µIU/mL

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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.

PAPANICOLAOU SMEAR RESULT PENDING

LETTER RESULT PENDING

PHYSICAL EXAMINATION,STOOL

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COLOUR	BROWN		
CONSISTENCY	SEMI FORMED		
MUCUS	ABSENT	NOT DETECTED	
VISIBLE BLOOD	ABSENT	ABSENT	
ADULT PARASITE	NOT DETECTED		
MICROSCOPIC EXAMINATION,STOOL			
PUS CELLS	2-3		/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	
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	NORMAL		
TMT OR ECHO			
TMT OR ECHO	NORMAL		
ECG			
ECG	WITHIN NORMAL LIMITS		
MEDICAL HISTORY			
RELEVANT PRESENT HISTORY	HYPERTENSION- 05 YRS; DIABETES - 01 YR		
RELEVANT PAST HISTORY	POLIOMYELITIS LT LEG (1& 1/2 YRS)		
RELEVANT PERSONAL HISTORY	MARRIED, 02 CHILD, EGG.		

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MENSTRUAL HISTORY (FOR FEMALES)	NOT SIGNIFICANT		
LMP (FOR FEMALES)	AUG- 2022		
OBSTETRIC HISTORY (FOR FEMALES)	P2A1L2- LSCS.		
LCB (FOR FEMALES)	22 YRS.		
RELEVANT FAMILY HISTORY	BOTH PARENTS-DIABETES.		
OCCUPATIONAL HISTORY	HOME MAKER.		
HISTORY OF MEDICATIONS	ANTIHYPERTENSIVE, ANTIDIABETICS		
ANTHROPOMETRIC DATA & BMI			
HEIGHT IN METERS	1.51		mts
WEIGHT IN KGS.	71		Kgs
BMI	31	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		
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	73/MIN REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT		
RESPIRATORY RATE	NORMAL		

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ACCESSION NO : **0062VL002388** AGE : 53 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 20/12/2022 08:12:16 REPORTED : 21/12/2022 15:14:57

REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Test Report Status **Preliminary**	Results	Biological Reference Interval	Units
CARDIOVASCULAR SYSTEM			
BP	128/81 MM HG (SITTING)		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		
HERNIA	ABSENT		
ANY OTHER COMMENTS	NIL		
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			

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DIAGNOSTIC REPORT

Patient Ref. No. 775000002030518

SRL Diagnostics

CLIENT CODE : C000138376

CLIENT'S NAME AND ADDRESS :
ACROFEMI HEALTHCARE LTD (MEDIWHEEL)
F-703, LADO SARAI, MEHRAULI
SOUTH WEST DELHI
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SRL Ltd
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Email : customercare.pitampura@srl.in

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CONJUNCTIVA	NORMAL		
EYELIDS	NORMAL		
EYE MOVEMENTS	NORMAL		
CORNEA	NORMAL		
DISTANT VISION RIGHT EYE WITH GLASSES	6/12		
DISTANT VISION LEFT EYE WITH GLASSES	6/12		
NEAR VISION RIGHT EYE WITH GLASSES	N/6		
NEAR VISION LEFT EYE WITH GLASSES	N/6		
COLOUR VISION	NORMAL		
BASIC ENT EXAMINATION			
EXTERNAL EAR CANAL	NORMAL		
TYMPANIC MEMBRANE	NORMAL		
NOSE	NO ABNORMALITY DETECTED		
SINUSES	NORMAL		
THROAT	NORMAL		
TONSILS	NOT ENLARGED		
BASIC DENTAL EXAMINATION			
TEETH	NORMAL		
GUMS	HEALTHY		
ANY OTHER COMMENTS	NIL		
SUMMARY			
RELEVANT HISTORY	NOT SIGNIFICANT		
RELEVANT GP EXAMINATION FINDINGS	NOT SIGNIFICANT		
RELEVANT LAB INVESTIGATIONS	HBA1C, PL. GL., TSH - ABOVE NORMAL LIMITS; URINE - PUS CELLS - 15 -20 CELLS / HPF, EP. CELLS - 10- 15 /HPF		
RELEVANT NON PATHOLOGY DIAGNOSTICS	NO ABNORMALITIES DETECTED		
REMARKS / RECOMMENDATIONS	CURTAIL WEIGHT; SUGAR INTAKE; OPHTHALMOLOGIST CONSULTATION; URINE - C/S		
FITNESS STATUS			
FITNESS STATUS	FIT (WITH MEDICAL ADVICE) (AS PER REQUESTED PANEL OF TESTS)		

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MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

Liver is normal in size, outline & **shows grade I-II fatty changes.** No obvious focal parenchymal lesion/biliary dilatation is seen. Hepatic veins and portal venous radicals are normal.
Gall bladder well distended and reveals an echo-free lumen. No wall edema is seen.
No evidence of any calculus, mass lesion or any other abnormality is seen in gall bladder.
Common bile duct is not dilated. Portal vein is normal in course and caliber.
Pancreas
Pancreas is normal in size, outline and echotexture. No evidence of any focal lesion or calcification is seen.
Pancreatic duct is not dilated.
Spleen
Spleen is normal in size, outline and echotexture .No focal lesion/ calcification is seen.
Kidneys
Both kidneys are normal in size, outline and echotexture. Corticomedullary differentiation is well maintained. Parenchymal thickness is normal. No mass lesion, calculus or hydronephrosis is seen.
No significant retroperitoneal lymphadenopathy/ascites is seen.
Urinary Bladder
Urinary bladder is adequately distended with normal outline.No mass lesion, calculus or diverticulum is noted in the urinary bladder.Urinary bladder wall thickness is normal.
Uterus
Uterus is anteverted with normal in size outline and echotexture. Endometrial thickness is 4.5mm. No obvious myometrial/endometrial pathology seen.
No obvious adnexal pathology is seen.
POD is clear.

Correlate clinically

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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.
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 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

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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 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-

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:

- 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.

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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.

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

K.I. Prajapati

Dr. Kamlesh I Prajapati
Consultant Pathologist

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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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