

Aakriti Labs

3 Mahatma Gandhi Marg, Gandhi Nagar Mod Tonk Road, Jaipur (Raj.) Ph.: 0141-2710661

www.aakritilabs.com

CIN NO.: U85195RJ2004PTC019563

Rashami Muha. 129 | 9782177787 Susraji Palgus- Anaji mandi

Pas

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Adva WNL



Dr. RAKESH SHARMA M.S. OPTH. B. OPTH FICLLP



Aakriti Labs

3 Mahatma Gandhi Marg, Gandhi Nagar Mod Tonk Road, Jaipur (Raj.) Ph.: 0141-2710661

www.aakritilabs.com

CIN NO.: U85195RJ2004PTC019563

NAME	MRS RASHMI MEENA	AGE	29Y	SEX	FEMALE
REF BY	MEDIWHEEL	DATE	12/11/2022	REG NO	LEIVIALE
			12/22/2022	WEG NO	

TRICUSPID

NORMAL

ECHOCARDIOGRAM REPORT

WINDOW- POOR/ADEQUATE/GOODVALVE					
MITRAL	NORMAL				

Westerday		EL Marie Mar		THICOSPID		NURIVIA	L
AORTIC	AORTIC NORMAL			PULMONARY		NORMAL	
2D/M-MOD				100000000000000000000000000000000000000		TOTAL	
IVSD mm	9.1		IVSS mm	14.2	AORT	A mm	24.0
LVID mm	44.0		LVIS mm	29.1	LA mr		28.4
LVPWD mm	9.8		LVPWS mm	14.5	EF%		60%
CHAMBERS					L1 /0		00%
LA		NO	RMAL	RA		NOR	MAL
LV		NO	RMAL	RV		NORMAL	
PERICARDIUM		NO	RMAL			NON	IVIAL
DOPPLER STUD	Y MITR	AL					

NIK			
MR	-	MV/CHZ (IIII)	
MVA cm2 (PLANITMETERY)		MVA cm2 (PHT)	
MEAN VELOCITY m/s		MEAN GRADIANT MmHg	
MEAN VELOCITY /-			
PEAK VELOCITY m/s E/A	1.17/0.79	PEAK GRADIANT MmHg	

AORTIC

TD10110010			
AR		The state of the s	
MEAN VELOCITY m/s		MEAN GRADIANT MmHg	
PEAK VELOCITY m/s	1.48	PEAK GRADIANT MmHg	

TRICUSPID

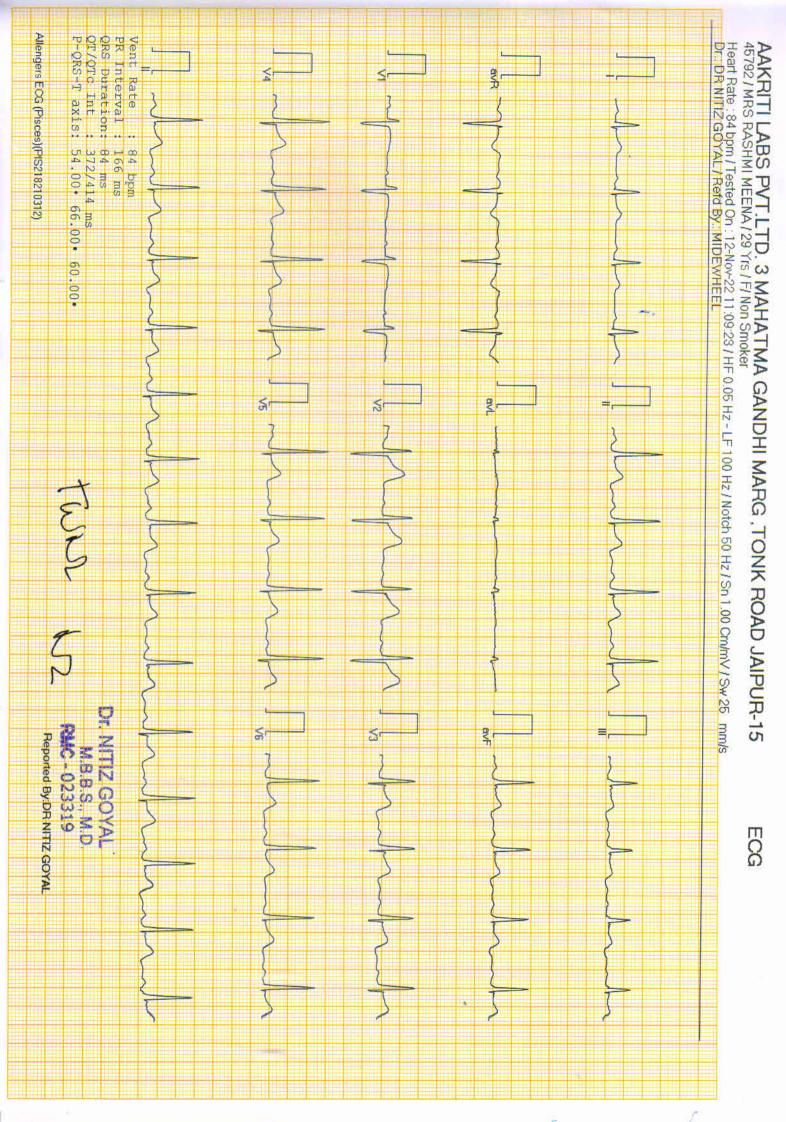
PULMONARY	NN		
TR	TRACE	PASP mmHg	26+ RAP
MEAN VELOCITY m/s	AUGUST	MEAN GRADIANT Mm	Hg
PEAK VELOCITY m/s	0.73	PEAK GRADIANT MmH	lg

POLIVIONART	A MARK		
PEAK VELOCITY m/s	1.42	PEAK GRADIANT MmHg	
MEAN VELOCITY m/s	No. of the last of	MEAN GRADIANT MmHg	
PR	1.30	RVEDP mmHg	
IMPRESSION			

- NORMAL LV SYSTOLIC & DIASTOLIC FUNCTION
- NO RWMA LVEF 60%
- NORMAL RV FUNCTION
- TRACE TR,(PASP= 26+ RAP mm of Hg)
- NORMAL CHAMBER DIMENSIONS
- NORMAL VALVULAR ECHO
- INTACT IAS / IVS
- NO THROMBUS, NO VEGETATION, NORMAL PERICARDIUM.
- IVC NORMAL

CONCLUSION: FAIR LV FUNCTION.

Cardiologist





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CIN NO.: U85195RJ2004PTC019563

Name

: Ms. RASHMI MEENA

Age/Gender: 29 Y/Female

Patient ID : 012211120022

BarcodeNo: 10067072

Referred By : Self

Registration No: 46091

Registered

: 12/Nov/2022 09:20AM

Analysed

: 13/Nov/2022 10:56AM

Reported

: 13/Nov/2022 10:56AM

Panel

: Medi Wheel-(ArcoFemi

Healthcare Ltd)

DIGITAL X-RAY CHEST PA VIEW

Soft tissue shadow and bony cages are normal.

Trachea is central.

Bilateral lung field and both CP angle are clear.

Domes of diaphragm are normally placed.

Transverse diameter of heart appears with normal limits.

IMPRESSION: - NO OBVIOUS ABNORMALITY DETECTED.



*** End Of Report ***

Page 1 of 1



Dr. Neera Mehta M.B.B.S., D.M.R.D. RMCNO.005807/14853



Tonk Road, Jaipur (Raj.) Ph.: 0141-2710661

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CIN NO.: U85195RJ2004PTC019563

Name : Ms. RASHMI MEENA

Age/Gender: 29 Y/Female Patient ID : 012211120022

BarcodeNo: 10067072

Referred By: Self

Registration No: 46091

Registered

: 12/Nov/2022 09:20AM

Analysed

: 12/Nov/2022 11:44AM

Reported

: 12/Nov/2022 11:45AM

Panel

: Medi Wheel (ArcoFemi

Healthcare Ltd)

USG: WHOLE ABDOMEN (Female)

LIVER

: Is normal in size, shape and echogenecity. The IHBR and hepatic radicals are not dilated. No evidence of focal echopoor/echorich lesion seen. Portal vein diameter and Common bile duct normal in size

GALL

: Is normal in size, shape and echotexture. Walls are smooth and

BLADDER regular with normal thickness. There is no evidence of cholelithiasis.

PANCREAS: Is normal in size, shape and echotexture. Pancreatic duct is not dilated. SPLEEN : Is normal in size, shape and echogenecity. Spleenic hilum is not dilated.

KIDNEYS: Right Kidney:-Size: 94 x 45 mm, Left Kidney:-Size: 100 x 43 mm. Bilateral Kidneys are normal in size, shape and echotexture, corticomedullary differentiation is fair and ratio appears normal.

Pelvi calyceal system is normal. No evidence of hydronephrosis/ nephrolithiasis.

URINARY : Bladder walls are smooth, regular and normal thickness.

BLADDER: No evidence of mass or stone in bladder lumen.

UTERUS

: Uterus is anteverted with normal in size shape & echotexture.

Uterine muscular shadows normal echopattern.

Endometrium is normal and centrally placed with size: 5 mm.

No evidence of mass lesion is seen. Size of uterus: 59 x 39 x 24 mm.

ADNEXA :

Both the ovaries are normal in size shape and echotexture.

Both ovaries show peripherally arranged multiple tiny follicles with central echogenic stroma.

Right ovary size: 37 x 21mm.

Left ovary size:41 x 28 mm

SPECIFIC: No evidence of retroperitoneal mass or free fluid seen in peritoneal cavity.

NO evidence of lymphadenopathy or mass lesion in retroperitoneum. Visualized bowel loop appear normal. Great vessels appear normal.

IMPRESSION: ? Bilateral polycystic ovaries

Adv. Hormonal correlation

Page 1 of 2

Dr. Neera Mehta M.B.B.S., D.M.R.D.

RMCNO.005807/14853









C/o Aakriti Labs Pvt Ltd, 3, Mahatma Gandhi Marg, Gandhi Nagar Mod,

CLIENT CODE: C000049066

CLIENT'S NAME AND ADDRESS:

SRL JAIPUR WELLNESS CORPORATE WALK IN (CASH) AAKRITI LABS PVT LTD. A-430, AGRASEN MARG

JAIPUR 302017 RAJASTHAN INDIA 9314660100

PATIENT ID: **PATIENT NAME: RASHMI MEENA** RASHF121193251

SRL Ltd

Tonk Road JAIPUR, 302015

Rajasthan, INDIA

ACCESSION NO: 0251VK001130 AGE: 29 Years SEX: Female ABHA NO:

DRAWN: 12/11/2022 09:20:00 RECEIVED: 12/11/2022 11:34:08 REPORTED: 12/11/2022 19:23:38

REFERRING DOCTOR: SELF CLIENT PATIENT ID: 012211120022

Test Report Status	<u>Final</u>	Results		Biological Reference	e Interval Units
MEDI WHEEL FILLI B	ODY HEALTH CHECKUP	RELOW 40FEMALE			
BLOOD COUNTS,EDT		DELOW TOTEMALE			
HEMOGLOBIN (HB)	A WHOLL BLOOD	11.7	Low	12.0 - 15.0	g/dL
METHOD : CYANIDE FREE D	ETERMINATION	11.7	2011	12.0 13.0	g/uL
RED BLOOD CELL (RBC		4,37		3.8 - 4.8	mi l /µL
METHOD : ELECTRICAL IMP	•	1137		310 110	mily pic
WHITE BLOOD CELL (V		6,10		4.0 - 10.0	thou/µL
METHOD : ELECTRICAL IMPI	,				3.1.5 d., p. =
PLATELET COUNT		307		150 - 410	thou/µL
METHOD : ELECTRONIC IMP	PEDANCE				
RBC AND PLATELET	INDICES				
HEMATOCRIT (PCV)		36.6		36 - 46	%
METHOD : CALCULATED PAR	RAMETER				
MEAN CORPUSCULAR \	VOLUME (MCV)	84.0		83 - 101	fL
METHOD : CALCULATED PAR	RAMETER				
MEAN CORPUSCULAR I	HEMOGLOBIN (MCH)	26.7	Low	27.0 - 32.0	pg
METHOD : CALCULATED PAR	RAMETER				
MEAN CORPUSCULAR I CONCENTRATION (MCI METHOD : CALCULATED PAR	HC)	31.8		31.5 - 34.5	g/dL
RED CELL DISTRIBUTION	ON WIDTH (RDW)	13.2		11.6 - 14.0	%
METHOD : CALCULATED PAR	RAMETER				
MENTZER INDEX		19.2			
MEAN PLATELET VOLUI	ME (MPV)	8.2		6.8 - 10.9	fL
METHOD : CALCULATED PAR	RAMETER				
WBC DIFFERENTIAL	COUNT				
NEUTROPHILS		48		40 - 80	%
METHOD : IMPEDANCE WITH	H HYDRO FOCUS AND MICROSCOPY	(
LYMPHOCYTES		46	High	20 - 40	%
METHOD : IMPEDANCE WITH	H HYDRO FOCUS AND MICROSCOPY	(
MONOCYTES		04		2 - 10	%
METHOD: IMPEDANCE WITH	H HYDRO FOCUS AND MICROSCOPY	′			
EOSINOPHILS		02		1 - 6	%
METHOD : IMPEDANCE WITH	H HYDRO FOCUS AND MICROSCOPY				
BASOPHILS		00		0 - 2	%
METHOD: IMPEDANCE WITH	H HYDRO FOCUS AND MICROSCOPY	(









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JAIPUR 302017 RAJASTHAN INDIA 9314660100

PATIENT NAME: RASHMI MEENA PATIENT ID: RASHF121193251

SRL Ltd

Tonk Road JAIPUR, 302015

Rajasthan, INDIA

ACCESSION NO: **0251VK001130** AGE: 29 Years SEX: Female ABHA NO:

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Test Report Status	<u>Final</u>	Results		Biological Reference Inter	val Units	
ABSOLUTE NEUTROPH	IL COUNT	2.93		2.0 - 7.0	thou/µL	
METHOD : CALCULATED PAR	RAMETER					
ABSOLUTE LYMPHOCY	TE COUNT	2.81		1.0 - 3.0	thou/µL	
METHOD : CALCULATED PAR	RAMETER					
ABSOLUTE MONOCYTE	COUNT	0.24		0.2 - 1.0	thou/µL	
METHOD : CALCULATED PAR	RAMETER					
ABSOLUTE EOSINOPHI	L COUNT	0.12		0.02 - 0.50	thou/µL	
METHOD : CALCULATED PAR	RAMETER					
ABSOLUTE BASOPHIL	COUNT	0	Low	0.02 - 0.10	thou/µL	
NEUTROPHIL LYMPHOO	CYTE RATIO (NLR)	1.0				
* ERYTHROCYTE SEE	DIMENTATION RATE (E	SR),WHOLE				
BLOOD	•	•				
E.S.R		15		0 - 20	mm at 1 hr	
METHOD: AUTOMATED (PH	OTOMETRICAL CAPILLARY STOPP	ED FLOW KINETIC ANALYSIS)"			
GLUCOSE FASTING,F	LUORIDE PLASMA					
FBS (FASTING BLOOD	SUGAR)	87		74 - 99	mg/dL	
METHOD: GLUCOSE OXIDA	SE					
	IOGLOBIN(HBA1C), ED	TA WHOLE				
BLOOD					0.4	
НВА1С		5.7		Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%	
METHOD: HIGH PERFORMA	NCE LIQUID CHROMATOGRAPHY	(HPLC)				
ESTIMATED AVERAGE	GLUCOSE(EAG)	116.9	High	< 116.0	mg/dL	
METHOD : CALCULATED PAR	RAMETER					
GLUCOSE, POST-PRA	NDIAL, PLASMA					
PPBS(POST PRANDIAL	BLOOD SUGAR)	120		70 - 140	mg/dL	
METHOD : GLUCOSE OXIDA	SE					
LIPID PROFILE, SER	UM					
CHOLESTEROL, TOTAL		239	High	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL	
METHOD : CHOLESTEROL O	XIDASE					
TRIGLYCERIDES		121		< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL	



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RASHF121193251

Cert. No. MC-5333

C/o Aakriti Labs Pvt Ltd, 3, Mahatma Gandhi Marg, Gandhi Nagar Mod,

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CLIENT CODE: C000049066 **CLIENT'S NAME AND ADDRESS:**

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Test Report Status <u>Final</u>	Results		Biological Reference Interv	al Units
METHOD: LIPASE/GPO-PAP NO CORRECTION				
HDL CHOLESTEROL	54		< 40 Low >/=60 High	mg/dL
METHOD: DIRECT CLEARANCE METHOD			>/=60 High	
CHOLESTEROL LDL	161	High	< 100 Optimal 100 - 129 Near optimal/ above optimal 130 - 159	mg/dL
			Borderline High 160 - 189 High >/= 190 Very High	
NON HDL CHOLESTEROL	185	High	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
METHOD: CALCULATED PARAMETER				
CHOL/HDL RATIO	4.4		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	3.0		0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate >6.0 High Risk	Risk
VERY LOW DENSITY LIPOPROTEIN	24.2		= 30.0</td <td>mg/dL</td>	mg/dL
LIVER FUNCTION PROFILE, SERUM				
BILIRUBIN, TOTAL METHOD: DIAZO WITH SULPHANILIC ACID	0.58		0 - 1	mg/dL
BILIRUBIN, DIRECT METHOD: DIAZO WITH SULPHANILIC ACID	0.14		0.00 - 0.25	mg/dL
BILIRUBIN, INDIRECT METHOD: CALCULATED PARAMETER	0.44		0.1 - 1.0	mg/dL
TOTAL PROTEIN	8.2		6.4 - 8.2	g/dL
METHOD · BILIRET REACTION END DOINT				
METHOD: BIURET REACTION, END POINT ALBUMIN METHOD: BROMOCRESOL GREEN	4.5	High	3.8 - 4.4	g/dL



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SRL Ltd

Tonk Road JAIPUR, 302015

REFERRING DOCTOR: SELF					1120022
Test Report Status	<u>Final</u>	Results		Biological Reference Interva	I Units
AL BUMANI/GLOBULIAN E	NATIO	4.2		10.24	DATIO
ALBUMIN/GLOBULIN F		1.2		1.0 - 2.1	RATIO
METHOD : CALCULATED PA	ANSFERASE (AST/SGOT)	36	High	0 - 31	U/L
METHOD : TRIS BUFFER NO	• • •	30	iligii	0 - 31	U/L
ALANINE AMINOTRAN		39	Hiah	0 - 31	U/L
METHOD : TRIS BUFFER NO	, , ,	33		0 31	0,2
ALKALINE PHOSPHATA		75		39 - 117	U/L
METHOD : AMP OPTIMISED				05 11,	J, _
GAMMA GLUTAMYL TR		29		7 - 32	U/L
	YL-3 CARBOXY-4 NITROANILIDE (IFCC	C) 37° C			,
LACTATE DEHYDROGE	NASE	449		230 - 460	U/L
METHOD : GERMAN METHO	DDS 37° C				
BLOOD UREA NITRO	GEN (BUN), SERUM				
BLOOD UREA NITROG	EN	13		5.0 - 18.0	mg/dL
METHOD : UREASE KINETIO	C				
CREATININE, SERUI	М				
CREATININE		0.86		0.6 - 1.2	mg/dL
METHOD : ALKALINE PICRA	ATE NO DEPROTEINIZATION				
BUN/CREAT RATIO					
BUN/CREAT RATIO		15.12			
METHOD : CALCULATED PA	RAMETER				
URIC ACID, SERUM					
URIC ACID		5.2		2.4 - 5.7	mg/dL
METHOD : URICASE PEROX	IDASE WITH ASCORBATE OXIDASE				
TOTAL PROTEIN, SE	RUM				
TOTAL PROTEIN		8.2		6.4 - 8.3	g/dL
METHOD : BIURET REACTION	ON, END POINT				
ALBUMIN, SERUM					
ALBUMIN		4.5	High	3.8 - 4.4	g/dL
METHOD: BROMOCRESOL	GREEN				
GLOBULIN					
GLOBULIN		3.7		2.0 - 4.1	g/dL
METHOD : CALCULATED PA	RAMETER				
ELECTROLYTES (NA	/K/CL), SERUM				
SODIUM, SERUM		139.0		137 - 145	mmo l /L











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Test Report Status <u>Final</u>	Results	Biological Reference Interva	al Units	
METHOD : ION-SELECTIVE ELECTRODE				
POTASSIUM, SERUM	4,37	3,6 - 5,0	mmo l /L	
METHOD : ION-SELECTIVE ELECTRODE	1,57	3.0 3.0	mmoly L	
CHLORIDE, SERUM	99.2	98 - 107	mmo l /L	
METHOD: ION-SELECTIVE ELECTRODE				
Interpretation(s)				
PHYSICAL EXAMINATION, URINE				
COLOR	PALE YELLOW			
METHOD: GROSS EXAMINATION	TALL TELLOW			
APPEARANCE	CLEAR			
METHOD: GROSS EXAMINATION	3227 (
CHEMICAL EXAMINATION, URINE				
PH	5.5	4.7 - 7.5		
METHOD: DOUBLE INDICATOR PRINCIPLE				
SPECIFIC GRAVITY	1.020	1.003 - 1.035		
METHOD: IONIC CONCENTRATION METHOD				
PROTEIN	NOT DETECTED	NOT DETECTED		
METHOD: PROTEIN ERROR OF INDICATORS WITH REFLECTANCE				
GLUCOSE	NOT DETECTED	NOT DETECTED		
METHOD: GLUCOSE OXIDASE PEROXIDASE / BENEDICTS				
KETONES	NOT DETECTED	NOT DETECTED		
METHOD: SODIUM NITROPRUSSIDE REACTION				
BLOOD	NOT DETECTED	NOT DETECTED		
METHOD: PEROCIDASE ANTI PEROXIDASE				
BILIRUBIN	NOT DETECTED	NOT DETECTED		
METHOD : DIPSTICK	NODMAL	NORMAL		
UROBILINOGEN METHOD: EHRLICH REACTION REFLECTANCE	NORMAL	NORMAL		
NITRITE	NOT DETECTED	NOT DETECTED		
METHOD : NITRATE TO NITRITE CONVERSION METHOD	NOT DETECTED	NOT DETECTED		
LEUKOCYTE ESTERASE	NOT DETECTED	NOT DETECTED		
MICROSCOPIC EXAMINATION, URINE	WOLDELIE OF THE STATE OF THE ST			
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF	
METHOD: MICROSCOPIC EXAMINATION	NOT DETECTED	NOT DETECTED	/1171	
PUS CELL (WBC'S)	2-3	0-5	/HPF	
. 55 5222 (1155 5)			,	













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Test Report Status <u>Final</u>	Results	Biological Reference	Interval Units
METHOD : DIPSTICK, MICROSCOPY			
EPITHELIAL CELLS	1-2	0-5	/HPF
METHOD: MICROSCOPIC EXAMINATION			
CASTS	NOT DETECTED		
METHOD: MICROSCOPIC EXAMINATION			
CRYSTALS	NOT DETECTED		
METHOD: MICROSCOPIC EXAMINATION			
BACTERIA	NOT DETECTED	NOT DETECTED	
METHOD: MICROSCOPIC EXAMINATION			
'EAST	NOT DETECTED	NOT DETECTED	
Interpretation(s)			
THYROID PANEL, SERUM			
г3	113.4	60.0 - 181.0	ng/dL
METHOD: CHEMILUMINESCENCE			
Г4	6.50	4.5 - 10.9	μg/dL
METHOD: CHEMILUMINESCENCE			
TSH (ULTRASENSITIVE)	1.700	0.550 - 4.780	μIU/mL
METHOD: CHEMILUMINESCENCE			
Interpretation(s)			

PAPANICOLAOU SMEAR

TEST METHOD CONVENTIONAL GYNEC CYTOLOGY

SPECIMEN TYPE TWO UNSTAINED CERVICAL SMEARS RECEIVED

REPORTING SYSTEM 2014 BETHESDA SYSTEM FOR REPORTING CERVICAL CYTOLOGY

SPECIMEN ADEQUACY SMEARS ARE SATISFACTORY FOR EVALUATION.

MICROSCOPY SMEARS ARE SATISFACTORY FOR EVALUATION AND COMPRISING OF

INTERMEDIATE AND SUPERFICIAL SQUAMOUS EPITHELIAL CELLS

AGAINST MILD ACUTE INFLAMMATORY CELLS.

ENDOCERVICAL CELLS NOT SEEN. TRICHOMONAS VAGINALIS IS SEEN.

 ${\tt METHOD}: {\tt MICROSCOPY}$

INTERPRETATION / RESULT NEGATIVE FOR INTRAEPITHELIAL LESION OR MALIGNANCY











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Test Report Status Final Results Biological Reference Interval Units

Comments

NOTE: PLEASE NOTE PAPANICOLAOU SMEAR STUDY IS A SCREENING PROCEDURE FOR CERVICAL CANCER WITH INHERENT FALSE NEGATIVE RESULTS, HENCE SHOULD BE INTERPRETED WITH CAUTION.

STOOL: OVA & PARASITE

CONSISTENCY TEST NOT PERFORMED

METHOD: GROSS EXAMINATION

Interpretation(s)

* ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP TYPE B

METHOD: TUBE AGGLUTINATION

RH TYPE POSITIVE

METHOD: TUBE AGGLUTINATION

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.

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)



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CLIENT CODE: C000049066

CLIENT'S NAME AND ADDRESS:

SRL JAIPUR WELLNESS CORPORATE WALK IN (CASH) AAKRITI LABS PVT LTD. A-430, AGRASEN MARG

JAIPUR 302017 RAJASTHAN INDIA 9314660100

Cert. No. MC-5333

SRL Ltd C/o Aakriti Labs Pvt Ltd, 3, Mahatma Gandhi Marg, Gandhi Nagar Mod,

Tonk Road JAIPUR, 302015 Rajasthan, INDIA

PATIENT NAME: RASHMI MEENA PATIENT ID: RASHF121193251

0251VK001130 AGE: 29 Years SEX: Female ABHA NO: ACCESSION NO:

DRAWN: 12/11/2022 09:20:00 RECEIVED: 12/11/2022 11:34:08 REPORTED: 12/11/2022 19:23:38

REFERRING DOCTOR: SELF CLIENT PATIENT ID: 012211120022

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

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 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

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

$\label{prop:hbA1c} \textbf{HbA1c Estimation can get affected due to:} \\$

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, is chemia 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



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

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 GravisMuscular 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 alobulin

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.

End Of Report

Please visit www.srlworld.com for related Test Information for this accession TEST MARKED WITH '*' ARE OUTSIDE THE NABL ACCREDITED SCOPE OF THE LABORATORY.

Dr. Akansha Jain **Consultant Pathologist**

Dr. Abhishek Sharma **Consultant Microbiologist**



