

Name : Mr. ANIT KUMAR SINGH
PID No. : MED111034556
SID No. : 922018319
Age / Sex : 49 Year(s) / Male
Type : OP
Ref. Dr : MediWheel

Register On : 26/03/2022 9:28 AM
Collection On : 26/03/2022 1:24 PM
Report On : 27/03/2022 10:54 AM
Printed On : 29/03/2022 6:10 PM




<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
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HAEMATOLOGY

Complete Blood Count With - ESR

Haemoglobin (EDTA Blood/Spectrophotometry)	13.1	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	39.9	%	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	4.27	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	93.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	30.8	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	33.0	g/dL	32 - 36
RDW-CV (EDTA Blood/Derived from Impedance)	14.7	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	48.6	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	6200	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	58.3	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	30.9	%	20 - 45
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	2.1	%	01 - 06


Dr RAVIKUMAR R
MBBS, MD BIOCHEMISTRY
CONSULTANT BIOCHEMIST
Reg No : 78771
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DR SHAMIM JAVED
MD PATHOLOGY
KMC 88902
APPROVED BY


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Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	8.0	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	0.7	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	3.6	10 ³ / μ l	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	1.9	10 ³ / μ l	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.10	10 ³ / μ l	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.5	10 ³ / μ l	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.0	10 ³ / μ l	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	118	10 ³ / μ l	150 - 450
Remark: Smear verified			
MPV (EDTA Blood/Derived from Impedance)	13.3	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.157	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (EDTA Blood/Modified Westergren)	8	mm/hr	< 15


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BIOCHEMISTRY

Liver Function Test

Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.5	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.2	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.3	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	7.0	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.5	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	2.5	gm/dL	2.3 - 3.6
A : G Ratio (Serum/Derived)	1.8		1.1 - 2.2
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC Kinetic)	29	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	33	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/IFCC Kinetic)	99	U/L	53 - 128
GGT(Gamma Glutamyl Transpeptidase) (Serum/SZASZ standarised IFCC)	43	U/L	< 55

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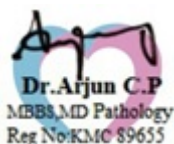


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<u>Lipid Profile</u>			
Cholesterol Total (Serum/Cholesterol oxidase/Peroxidase)	195	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	168	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500

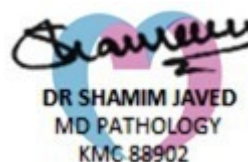
INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the "usual" circulating level of triglycerides during most part of the day.

HDL Cholesterol (Serum/Immuno-inhibition)	39	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	122.4	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	33.6	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	156.0	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220

INTERPRETATION: 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol.
2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.



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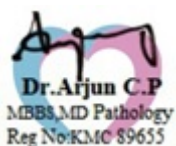
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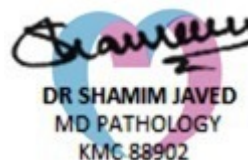
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Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	5		Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0
Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated)	4.3		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	3.1		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0



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<u>Glycosylated Haemoglobin (HbA1c)</u>			
HbA1C (Whole Blood/HPLC)	5.3	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: \geq 6.5

INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control \geq 8.1 %

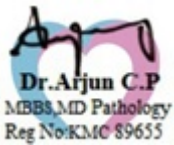
Estimated Average Glucose 105.41 mg/dL
(Whole Blood)

INTERPRETATION: Comments

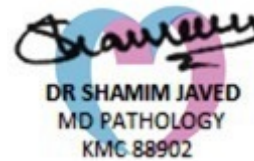
HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycaemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency, hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values.

Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbA1c.



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IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total (Serum/CMIA)	1.34	ng/mL	0.7 - 2.04
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INTERPRETATION:

Comment :

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Thyroxine) - Total (Serum/CMIA)	10.30	µg/dL	4.2 - 12.0
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INTERPRETATION:

Comment :

Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

TSH (Thyroid Stimulating Hormone) (Serum/Chemiluminescent Microparticle Immunoassay(CMIA))	2.08	µIU/mL	0.35 - 5.50
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INTERPRETATION:

Reference range for cord blood - upto 20

1 st trimester: 0.1-2.5

2 nd trimester 0.2-3.0

3 rd trimester : 0.3-3.0

(Indian Thyroid Society Guidelines)

Comment :

1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI.

2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM.The variation can be of the order of 50%,hence time of the day has influence on the measured serum TSH concentrations.

3.Values&lt;0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.


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CLINICAL PATHOLOGY

PHYSICAL EXAMINATION

Colour (Urine)	Pale Yellow		
Appearance (Urine)	Clear		Clear
Volume (Urine)	20	mL	

CHEMICAL EXAMINATION(Automated-Urineanalyser)

pH (Urine/AUTOMATED URINANALYSER)	6.0		4.5 - 8.0
Specific Gravity (Urine)	1.020		1.002 - 1.035
Ketones (Urine)	Negative		Negative
Urobilinogen (Urine/AUTOMATED URINANALYSER)	0.2		0.2 - 1.0
Blood (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Nitrite (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Bilirubin (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Protein (Urine)	Negative		Negative
Glucose (Urine)	Negative		Negative

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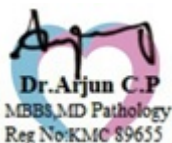
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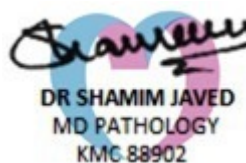
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Leukocytes (Urine)	Negative	leuco/uL	Negative
<u>MICROSCOPY(URINE DEPOSITS)</u>			
Pus Cells (Urine/Flow cytometry)	2-3	/hpf	3-5
Epithelial Cells (Urine)	2-3	/hpf	1-2
RBCs (Urine/Flow cytometry)	Nil	/hpf	NIL
Others (Urine)	Nil		Nil
Casts (Urine/Flow cytometry)	Nil	/hpf	0 - 1
Crystals (Urine)	Nil		NIL



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BIOCHEMISTRY

BUN / Creatinine Ratio	12		6 - 22
Glucose Fasting (FBS) (Plasma - F/GOD - POD)	85	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

Glucose Fasting - Urine (Urine - F)	Negative		Negative
Glucose Postprandial - Urine (Urine - PP)	Negative		Negative
Blood Urea Nitrogen (BUN) (Serum/Urease-GLDH)	11	mg/dL	7.0 - 21
Creatinine (Serum/Jaffe Kinetic)	1.0	mg/dL	0.9 - 1.3

INTERPRETATION: Elevated Creatinine values are encountered in increased muscle mass, severe dehydration, Pre-eclampsia, increased ingestion of cooked meat, consuming Protein/ Creatine supplements, Diabetic Ketoacidosis, prolonged fasting, renal dysfunction and drugs such as cefoxitin ,cefazolin, ACE inhibitors ,angiotensin II receptor antagonists, N-acetylcysteine, chemotherapeutic agent such as flucytosine etc.

Uric Acid (Serum/Uricase/Peroxidase)	6.9	mg/dL	3.5 - 7.2
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<u>IMMUNOASSAY</u>			
Prostate specific antigen - Total(PSA) (Serum/Chemiluminescent Microparticle Immunoassay(CMIA))	0.894	ng/mL	Normal: 0.0 - 4.0 Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0 Suspicious of Malignant disease of Prostate: > 10.0

INTERPRETATION: Analytical sensitivity: 0.008 - 100 ng/mL

PSA is a tumor marker for screening of prostate cancer. Increased levels of PSA are associated with prostate cancer and benign conditions like bacterial infection, inflammation of prostate gland and benign hypertrophy of prostate/ benign prostatic hyperplasia (BPH). Transient elevation of PSA levels are seen following digital rectal examination, rigorous physical activity like bicycle riding, ejaculation within 24 hours.

PSA levels tend to increase in all men as they age.

Clinical Utility of PSA:

- In the early detection of Prostate cancer.
- As an aid in discriminating between Prostate cancer and Benign Prostatic disease.
- To detect cancer recurrence or disease progression.

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IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING
(EDTA Blood/Agglutination)

'O' 'Positive'



DR .VANITHA.R.SWAMY MD
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KMC 88902
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-- End of Report --



भारत सरकार
GOVERNMENT OF INDIA



अनित कुमार सिंह

Anit Kumar Singh

जन्म तिथि/ DOB: 10/10/1972

पुरुष / MALE

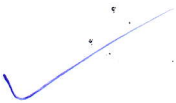


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मेरा आधार, मेरी पहचान

Customer Name	ARVIT KUMAR SINGH	Customer ID	
Age & Gender	49 - Male	Visit Date	26/03/202

Eye Screening



With spectacles / without spectacles (strike out whichever is not applicable)

	Right Eye	Left Eye
Near Vision	N6	N6
Distance Vision	6/6	6/6
Colour Vision	Normal	Normal

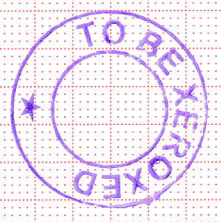
Observation / Comments: Normal

Dr. Ravi V. Halakatti

Dr. RAVI V. HALAKATTI
M.S. (OPHTH)
EYE SURGEON
Regd. No. 11801

49 Years Male

QRS : 72 ms
QT / QTcBaz : 360 / 423 ms
PR : 130 ms
P : 98 ms
RR / PP : 72 / 72
P / QRS / T : 35 / 37 / 55 degrees



Dr. SRIDHAR .L

MR

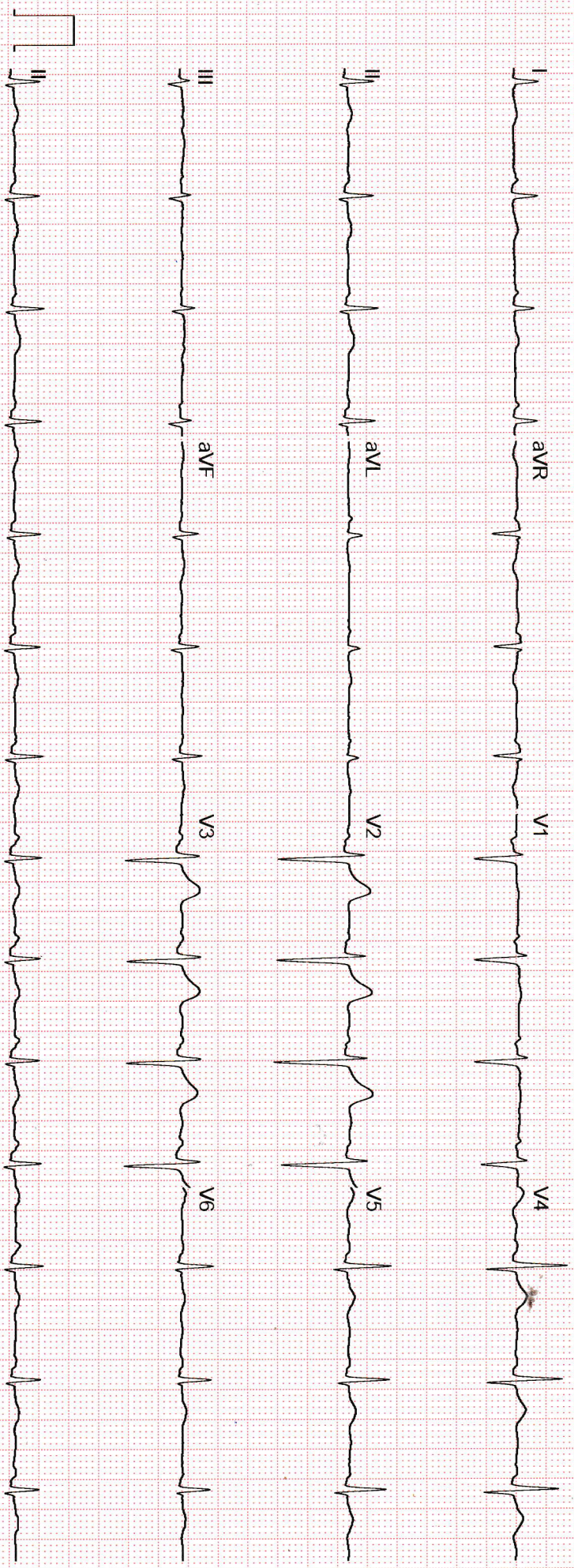
RM + 20°

Normal ECG

(Needs Clinical Correlation
for further Management)

Dr. SRIDHAR .L
MD (Med), DM (Cardio), FCC
Interventional Cardiologist
K.M.C. No.: 32248

Technician: koms
Ordering Ph: MEDIWHEEL
Referring Ph: MEDIWHEEL
Attending Ph:



GE MAC2000 1 1 12SL™ V241 25 mm/s 10 mm/mV ADS 0.56-20 Hz 50 Hz 4x2.5x3.25_R1

Unconfirmed

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Age & Gender	49Y/M	Visit Date	Mar 26 2022 9:28AM
Ref Doctor	MediWheel		

X - RAY CHEST PA VIEW

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

Impression: Essentially normal study.



DR. H.K. ANAND

DR. SHWETHA S

DR. PRAJNA SHENOY

DR. MAHESH M S

CONSULTANT RADIOLOGISTS



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ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in shape, size and has uniform echopattern.
No evidence of focal lesion or intrahepatic biliary ductal dilatation.
Hepatic and portal vein radicals are normal.

GALL BLADDER show normal shape and has clear contents.
Gall bladder wall is of normal thickness. CBD is of normal calibre.

PANCREAS has normal shape, size and uniform echopattern.
No evidence of ductal dilatation or calcification.

SPLEEN show normal shape, size and echopattern.

No demonstrable Para -aortic lymphadenopathy.

KIDNEYS move well with respiration and have normal shape, size and echopattern.
Cortico- medullary differentiations are well madeout.
No evidence of calculus or hydronephrosis.
The kidney measures as follows

	Bipolar length (cms)	Parenchymal thickness (cms)
Right Kidney	9.5	1.8
Left Kidney	9.1	1.4

URINARY BLADDER show normal shape and wall thickness.
It has clear contents. No evidence of diverticula.

PROSTATE shows normal shape, size (wt – 18.8gms) and echopattern.

No evidence of ascites.

Impression: No sonological abnormality detected.

CONSULTANT RADIOLOGISTS:

DR. H. K. ANAND

DR. PRAJNA SHENOY

DR. MAHESH. M. S

DR. RADHA KRISHNA. A.

DR. HIMA BINDU.P

Ms/pu



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Age & Gender	49Y/MALE	Visit Date	26/03/2022
Ref Doctor	MediWheel		

2D ECHOCARDIOGRAPHIC STUDY

M mode measurement:

AORTA	:	3.39	cms
LEFT ATRIUM	:	3.06	cms
AVS	:	1.59	cms
LEFT VENTRICLE (DIASTOLE)	:	4.53	cms
(SYSTOLE)	:	2.98	cms
VENTRICULAR SEPTUM (DIASTOLE)	:	1.10	cms
(SYSTOLE)	:	2.20	cms
POSTERIOR WALL (DIASTOLE)	:	1.10	cms
(SYSTOLE)	:	1.80	cms
EDV	:	93	ml
ESV	:	34	ml
FRACTIONAL SHORTENING	:	34	%
EJECTION FRACTION	:	64	%
EPSS	:		cms
RVID	:	1.96	cms

DOPPLER MEASUREMENTS

MITRAL VALVE	: 'E' -0.97m/s 'A' -0.69m/s	NO MR
AORTIC VALVE	:1.18 m/s	NO AR
TRICUSPID VALVE	: 'E' -0.68m/s 'A' - m/s	NO TR
PULMONARY VALVE	:0.84 m/s	NO PR



Name	MR.ANIT KUMAR SINGH	ID	MED111034556
Age & Gender	49Y/MALE	Visit Date	26/03/2022
Ref Doctor	MediWheel		

:2:

2D ECHOCARDIOGRAPHY FINDINGS:

Left Ventricle : Normal size, Normal systolic function.
No regional wall motion abnormalities

Left Atrium : Normal

Right Ventricle : Normal

Right Atrium : Normal.

Mitral valve : Normal, No mitral valve prolapse.

Aortic valve : Normal, Trileaflet

Tricuspid valve : Normal.

Pulmonary valve : Normal.

IAS : Intact.

IVS : Intact.

Pericardium : No Pericardial effusion.

IMPRESSION :

- NORMAL SIZED CARDIAC CHAMBERS.
- NORMAL LV SYSTOLIC FUNCTION. EF: 64 %
- NO REGIONAL WALL MOTION ABNORMALITIES.
- NORMAL VALVES.
- NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

(KINDLY CORRELATE CLINICALLY AND WITH ECG)

Dr. SRIDHAR .L
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DR.SRIDHAR.L MD,DM,FICC.
CONSULTANT CARDIOLOGIST
Ls/ml



