Name ; Mr. SATHYANARAYANAN M K

PID No. : PRT17587 SID No. : 79645683

Register On : 14/11/2022 10:03 AM

Collection On : 14/11/2022 11:44 AM

Age / Sex : 43 Year(s) / Male Type

: OP

Report On

: 17/11/2022 4:12 PM

Printed On

: 19/11/2022 8:45 AM

Ref. Dr : MediWheel

Investigation	<u>Observed</u>	<u>Unit</u>	Biological
	<u>Value</u>		Reference Interval
DI COR OR CITTURE			

BLOOD GROUPING AND Rh

'B' 'Positive'

TYPING

(EDTA Blood/Agglutination)

INTERPRETATION: Reconfirm the Blood group and Typing before blood transfusion

Complete Blood Count With - ESR

Haemoglobin (EDTA Blood'Spectrophotometry)	14.8	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	44.7	%	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	5.19	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	86.2	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	28.5	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood'Derived from Impedance)	33.1	g/dL	32 - 36
RDW-CV (EDTA Blood/Derived from Impedance)	14.4	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	43.44	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	7400	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	73.8	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	16.5	%	20 - 45
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	1.9	%	01 - 06



sultant Pathologist Reg No : 73347

APPROVED BY

The results pertain to sample tested.

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wame : Mr. SATHYANARAYANAN M K

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Printed On



Ref. Dr : MediWheel

Investigation	Observed <u>Value</u>	<u>Unit</u>	Biological Reference Interval
Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	6.7	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	1.1	%	00 - 02
Absolute Noutronkil and the Absolute Noutronkil	Five Part cell cour	nter. All abnormal results	Sare reviewed and confirmed
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	5.46	10^3 / μΙ	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood Impedance Variation & Flow Cytometry)	1.22	10^3 / μ1	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.14	10^3 / μΙ	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.50	10^3 / μΙ	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.08	10^3 / μ1	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	195	10^3 / μ1	150 - 450
MPV (EDTA Blood/Derived from Impedance)	7.9	fL	7.9 - 13.7
PCT (EDTA Blood'Automated Blood cell Counter)	0.15	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Blood/Automated - Westergren method)	5	mm/hr	< 15
BUN / Creatinine Ratio	8.03		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	90.0	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125

: 19/11/2022 8:45 AM





Diabetic: >= 126

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The results pertain to sample tested.

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Name : Mr. SATHYANARAYANAN M K

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: 14/11/2022 10:03 AM Collection On : 14/11/2022 11:44 AM

17/11/2022 4:12 PM

Type : OP Ref. Dr : MediWheel

Investigation

Printed On 19/11/2022 8:45 AM

> Observed Unit

Reference Interval INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence

Glucose, Fasting (Urine) Negative Negative (Urine - F/GOD - POD)

Value

Glucose Postprandial (PPBS) 97.6 mg/dL 70 - 140

(Plasma - PP/GOD-PAP)

INTERPRETATION:

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti- diabetic medication during treatment for Diabetes.

Remark: kindly correlate clinically, suggested repeat testing with a fresh sample, if clinically indicated

Urine Glucose(PP-2 hours) (Urine - PP)	Negative	a second sample, it chilically file	Negative
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	8.6	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	1.07	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

Uric Acid	5.7	mg/dL	25 72
(Serum/Enzymatic)	•	mg/dL	3.5 - 7.2

Liver Function Test

Bilirubin(Total) (Serum/DCA with ATCS)	0.77	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.22	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.55	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	26.7	U/L	5 - 40



Biological

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Register On : 14/11/2022 10:03 AM

SID No. : 79645683 Age / Sex : 43 Year(s) / Male

Collection On : 14/11/2022 11:44 AM

Type : OP

Printed On

Report On : 17/11/2022 4:12 PM

: 19/11/2022 8:45 AM

Ref. Dr ; MediWheel		13/11/2022 6.45 AIVI	
Investigation	Observed Value	<u>Unit</u>	<u>Biological</u>
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	22.1	U/L	Reference Interval 5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	21.0	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	89.9	U/L	53 - 128
Total Protein (Serum/Biuret)	6.15	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.05	gm/dl	3.5 - 5.2
Globulin (Serum/ <i>Derived</i>)	2.10	gm/dL	2.3 - 3.6
A: GRATIO (Serum/Derived)	1.93		1.1 - 2.2
<u>Lipid Profile</u>			
Cholesterol Total	164.1	mg/dL	Optimal: < 200

Triglycerides 65.7 mg/dL Optimal: < 150 (Serum/GPO-PAP with ATCS) 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/Immunoinhibition)

(Serum/CHOD-PAP with ATCS)

51.9

mg/dL

Optimal(Negative Risk Factor): >=

Optimal: < 200

Borderline: 200 - 239 High Risk: ≥ 240

60

Borderline: 40 - 59 High Risk: < 40



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The results pertain to sample tested.

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: Mr. SATHYANARAYANAN M K Name

: PRT17587 PID No.

Register On : 14/11/2022 10:03 AM

SID No.

: 79645683

: MediWheel

Collection On : 14/11/2022 11:44 AM

Age / Sex : 43 Year(s) / Male

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Biological Observed **Unit** Investigation Reference Interval Value Optimal: < 100 99.1 mg/dL LDL Cholesterol Above Optimal: 100 - 129 (Serum/Calculated) Borderline: 130 - 159 High: 160 - 189 Very High: >= 190 VLDL Cholesterol 13.1 mg/dL < 30 (Serum/Calculated) Optimal: < 130 Non HDL Cholesterol 112.2 mg/dL Above Optimal: 130 - 159 (Serum/Calculated)

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.

Total Cholesterol/HDL Cholesterol	3.2	Optimal: < 3.3
Ratio		Low Risk: 3.4 - 4.4
(Serum/Calculated)		Average Risk: 4.5 - 7.1
(corum curemany)		Moderate Risk: 7.2 - 11.0
		High Risk: > 11.0
(Setuliv Calculatea)		Moderate Risk: 7.2 - 1

Triglyceride/HDL Cholesterol Ratio	1.3	Optimal: < 2.5
(TG/HDL)		Mild to moderate risk: 2.5 - 5.0
(Serum/Calculated)		High Risk: > 5.0
I DI /IIDI Chalasteral Patia	1.0	Ontimal: 0.5 - 3.0

Optimal: 0.5 - 3.0 LDL/HDL Cholesterol Ratio 1.9 Borderline: 3.1 - 6.0 (Serum/Calculated) High Risk: > 6.0

Glycosylated Haemoglobin (HbA1c)

% Normal: 4.5 - 5.6 5.2 HbA1C Prediabetes: 5.7 - 6.4 (Whole Blood/HPLC)

Diabetic: >= 6.5

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



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The results pertain to sample tested.

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Name

: Mr. SATHYANARAYANAN M K

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: 19/11/2022 8:45 AM

Ref. Dr

: MediWheel

Investigation

Observed Value

Unit

Biological Reference Interval

Estimated Average Glucose

102.54

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 glycemic 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 HbAlC 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.

Prostate specific antigen - Total(PSA)

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: REMARK: PSA alone should not be used as an absolute indicator of malignancy.

THYROID PROFILE / TFT

(Serum/Manometric method)

T3 (Triiodothyronine) - Total

1.23

ng/ml

0.7 - 2.04

(Serum/Chemiluminescent Immunometric Assay

(CLIA))

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 (Tyroxine) - Total

8.18

μg/dl

4.2 - 12.0

(Serum/Chemiluminescent Immunometric Assay

(CLIA))

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 Immunometric Assay (CLIA))

1.20

μIU/mL

0.35 - 5.50

VERIFIED BY

M D(Path)

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Name Mr. SATHYANARAYANAN M K

PID No. : PRT17587 Register On : 14/11/2022 10:03 AM

: 79645683 SID No. Collection On : 14/11/2022 11:44 AM

Age / Sex : 43 Year(s) / Male Report On : 17/11/2022 4:12 PM Type : OP **Printed On** : 19/11/2022 8:45 AM

Ref. Dr

: MediWheel Investigation

Observed Unit Biological Value Reference Interval

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.

Urine Analysis - Routine

APPEARANCE (Urine) Protein (Urine/Protein error of indicator) Glucose (Urine/GOD - POD) Pus Cells Occasional /hpf NIL (Urine/Automated - Flow cytometry) RBCs (Urine/Automated - Flow cytometry) Casts (Urine/Automated - Flow cytometry) Casts (Urine/Automated - Flow cytometry) Crystals (Urine/Automated - Flow cytometry) Others NIL (Urine) Others NIL Clear Negative NiL NiL NiL NiL NiL NiL NiL Ni	COLOUR (Urine)	Pale yellow		Yellow to Amber
(Urine/Protein error of indicator) Glucose (Urine/GOD - POD) Pus Cells (Urine/Automated – Flow cytometry) Epithelial Cells (Urine/Automated – Flow cytometry) RBCs (Urine/Automated – Flow cytometry) Casts (Urine/Automated – Flow cytometry) Casts (Urine/Automated – Flow cytometry) Crystals (Urine/Automated – Flow cytometry) Others NIL /hpf NIL NIL NIL Others		Clear		Clear
(Urine/GOD - POD) Pus Cells (Urine/Automated – Flow cytometry) Epithelial Cells (Urine/Automated – Flow cytometry) RBCs (Urine/Automated – Flow cytometry) Casts (Urine/Automated – Flow cytometry) Crystals (Urine/Automated – Flow cytometry) Crystals (Urine/Automated – Flow cytometry) NIL (Urine/Automated – Flow cytometry)		Negative		Negative
(Urine/Automated – Flow cytometry) Epithelial Cells (Urine/Automated – Flow cytometry) RBCs NIL /hpf NIL (Urine/Automated – Flow cytometry) Casts (Urine/Automated – Flow cytometry) Crystals (Urine/Automated – Flow cytometry) Others NIL /hpf NIL /hpf NIL (Urine/Automated – Flow cytometry)		Negative		Negative
(Urine/Automated – Flow cytometry) RBCs (Urine/Automated – Flow cytometry) Casts (Urine/Automated – Flow cytometry) Crystals (Urine/Automated – Flow cytometry) Others NIL /hpf NIL /hpf NIL /hpf NIL /hpf		Occasional	/hpf	NIL
(Urine/Automated – Flow cytometry) Casts (Urine/Automated – Flow cytometry) Crystals (Urine/Automated – Flow cytometry) Others NIL /hpf NIL NIL Others		Occasional	/hpf	NIL
(Urine/Automated – Flow cytometry) Crystals (Urine/Automated – Flow cytometry) Others NIL /hpf NIL NIL		NIL	/hpf	NIL
(Urine/Automated – Flow cytometry) Others NIL		NIL	/hpf	NIL
THE		NIL	/hpf	NIL
Comey	Others (Urine)	NIL		

INTERPRETATION: Note: Done with Automated Urine Analyser & Automated urine sedimentation analyser. All abnormal reports are reviewed and confirmed microscopically.



M.D(Path) ologist

APPROVED BY

-- End of Report --

The results pertain to sample tested.

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Name	MR.SATHYANARAYANAN M K N			
A 9 . C 1		ID	PRT17587	
Age & Gender	43Y/MALE	Visit Date		
Ref Doctor	MediWheel	VISIT Date	14/11/2022	

ULTRASOUND SCAN

WHOLE ABDOMEN

Liver is normal in size (13.8 cm) and shows homogenously increased parenchymal echoes with no focal abnormality.

There is no intra or extra hepatic biliary ductal dilatation. Portal vein and IVC are normal.

Gall bladder is normal sized and shows a polyp of size 2 mm.

No evidence of calculi. Wall thickness is normal.

Pancreas shows a normal configuration and echotexture. Pancreatic duct is normal.

Spleen is mildly enlarged in size (12.5 cm) and uniform echotexture.

Bilateral kidneys are normal in size, shape and position. Cortical echoes are normal bilaterally. There is no calculus or calyceal dilatation.

Right kidney measures 10.8 x 5.7 cm.

Left kidney measures 11.3 x 7.7 cm.

Ureters are not dilated.

No abnormality is seen in the region of the adrenal glands.

No para aortic lymphadenopathy is seen.

Urinary bladder is smooth walled and uniformly transonic. No intravesical mass or calculus.

Pre void urinary bladder volume is 280 ml. Post void residual urine volume is 84 ml (Significant).

Prostate is normal in size, measures $3.7 \times 2.7 \times 2.7 \text{ cm}$ (vol – 14 cc). Echotexture is homogenous.

Seminal vesicles is normal.



MR.SATHVANADAVANAN M. V. V.		
	ID	PRT17587
	Visit Date	14/11/2022
	MR.SATHYANARAYANAN M K N 43Y/MALE MediWheel	43Y/MALE Visit Date

Iliac fossae are normal.

There is no free or loculated peritoneal fluid.

IMPRESSION:

- > Fatty liver.
- > Gall bladder polyp.
- > Mild splenomegaly.
- > Significant post void residual urine.
 - --- Needs clinical correlation.

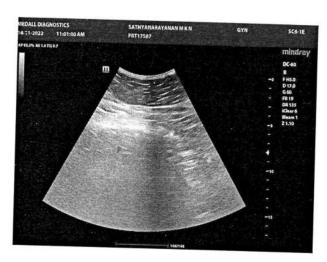
Dr. SVIJITHA SONOLOGIST

Medall Healthcare Pvt Ltd No:191, Poonamalle High Road (Near Taylors Road Signal)

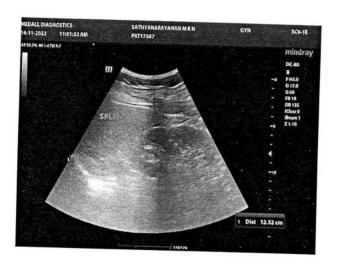
Name	MR.SATHYANARAYANA	750		
	N M K N	ID	PRT17587	
Age & Gender	Gender 43Y/MALE Vici	Winit D.		
Ref Doctor	MediWheel Visit Date		14/11/2022	







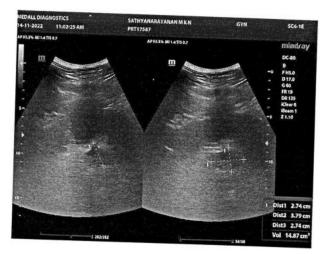






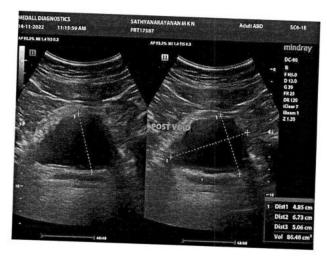
Medall Healthcare Pvt Ltd No:191, Poonamalle High Road (Near Taylors Road Signal)

Name	MR.SATHYANARAYANA	ID	
	NMKN	ID	PRT17587
Age & Gender	43Y/MALE Visit D	Winit D.	
Ref Doctor	MediWheel Visit Date		14/11/2022











Name	SATHYANARAYANAN M K N	ID	PRT17587
Age & Gender	43Y/M	Visit Date	Nov 14 2022 1:43PM
Ref Doctor	MediWheel	, ion Dute	14 2022 1:43PM

X-RAY CHEST (PA VIEW)

The cardio thoracic ratio is normal.

The heart size and configuration are within normal limits.

The aortic arch is normal.

The lung fields show normal broncho-vascular markings.

Both the pulmonary hila are normal in size.

The costophrenic and cardiophrenic recesses and the domes of diaphragm are normal.

The bones and soft tissues of the chest wall show no abnormality.

IMPRESSION:

No significant abnormality detected.

Dr. D. Vignesh Kumar MBBS, DNB(RD) Consultant Radiologist



Name	MR.SATHYANARAYANAN M K N		
Age & Gender	ender 43Y/MALE	ID	PRT17587
Ref Doctor		Visit Date	14/11/2022

DEPARTMENT OF CARDIOLOGY TRANSTHORACIC RESTING ECHO CARDIOGRAPHY REPORT

ECHO INDICATION: Assessment M MODE & 2-D PARAMETERS:

ACOUSTIC WINDOW: GOOD

LV STUDY

DOPPLER PARAMETERS

IVS(d)	cm	0.7
IVS(s)	cm	1.3
LPW(d)	cm	0.7
LPW(s)	cm	1.1
LVID(d)	cm	3.8
LVID(s)	cm	2.6
EDV ml		56
ESV ml		17
SV ml		38
EF %		68
FS %		31

Param	eters	Patient Value
LA	cm	2.8
AO	cm	3.8

Valves	Velocity max(m/sec mm/Hg)
AV	0.6 / 2
PV	0.8 / 3
MV (E)	0.7
(A)	0.5
TV	1.1 / 5

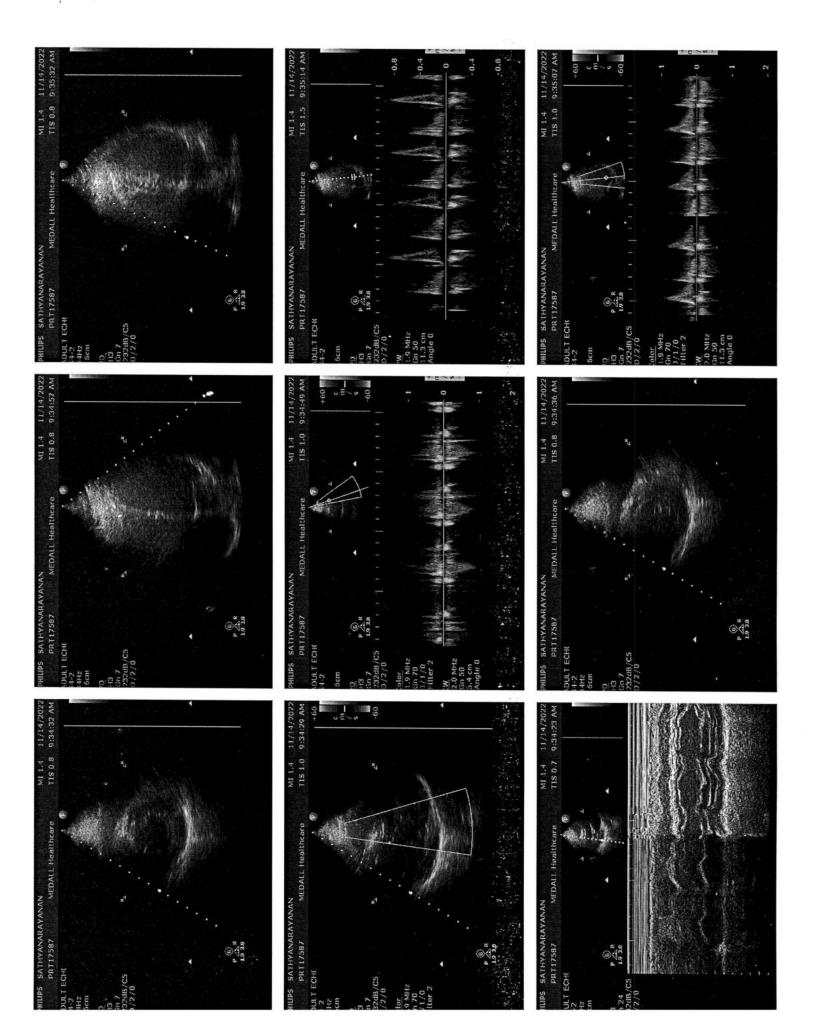
FINDINGS:

- Normal left ventricle systolic function (LVEF 68 %).
- No regional wall motion abnormality.
- Normal chambers dimension.
- Trivial mitral regurgitation.
- No pulmonary hypertension.
- Normal right ventricle systolic function.
- Normal pericardium / Intact septae.
- * No clot/aneurysm.

IMPRESSION:

- ► NORMAL LV SYSTOLIC FUNCTION.
- NO REGIONAL WALL MOTION ABNORMALITY.
- TRIVIAL MR.
- NO PHT.

P. VIJAYA LAKSHMI ECHO TECHNICIAN



medall DIAGNOSTICS experts who care

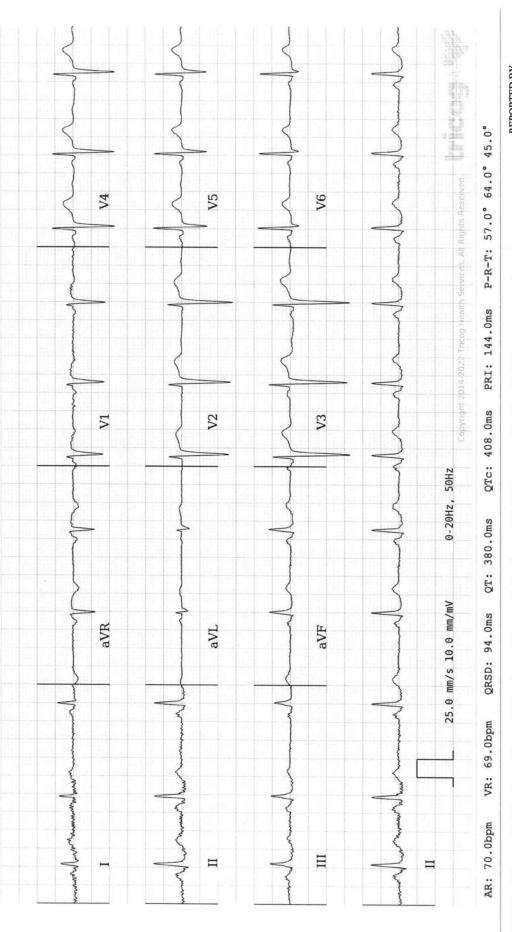
Medall Healthcare Pvt Ltd, Chennai Reference Lab,

43/Male Age / Gender:

Prt17587 Patient ID:

Sathyanarayanan Patient Name:

Date and Time: 14th Nov 22 10:33 AM



ECG Within Normal Limits: Sinus Rhythm, Normal Axis, with Sinus Arrhythmia.Please correlate clinically.



Disclaimer: Analysis in this report is based on ECG alone and should only be used as an adjunct to clinical history, symptoms and results of other invasive and non-invasive tests and must be interpreted by a qualified physician.