All Reviewers List

on 2/9/2023 16:19

Transthoracic echo (TTE) complete

Male

Name: MRN:

DOB:

Gender Identity:

Height: 1.753 m (5' 9") Weight: 106 kg (234 lb)

BSA: 2.21 m² BP: 142/75

Date of Study: Ordering:

Indications:

2/6/23

S/P TAVR (transcatheter aortic valve replacement) [Z95.2 (ICD-10-

CM)]

Interpreting Physicians

Performing Staff

Transthoracic echo (TTE) complete with or without micro-bubble contrast as needed per protocol: Patient Communication

Released

Seen

Cardiac Procedural History

Past Surgical History

	Laterality	Date	Comments
Coronary angiography with LV and right heart	N/A	9/2/2021	
Coronary angiography with LV	N/A	11/25/2022	
Replacement Transcatheter Aortic Valve Endovascular (TAVR) with TEE	N/A	12/28/2022	
Coronary angiography with LV	N/A	8/3/2023	
Percutaneous coronary intervention (PCI)	N/A	8/3/2023	

🐶 Interpretation Summary

Normal LV size and systolic function. LVEF 60-65%

Normal RV size and systolic function

There is a well seated TAVR aortic valve in place, without stenosis or regurgitation

In comparison to prior periprocedural TTE 12/28/2022, there are no significant changes

Study Details

Echo An echo was performed using complete 2D, color flow Doppler and spectral Doppler. Overall the study quality was adequate. The study had technical difficulties. The study was difficult due to patient's body habitus. Good apical endocardial definition in off axis views.

Rhythm normal sinus

Prior Study Prior TTE study available for comparison. Prior study date: 10/12/2022.

Myocardial Findings

Left Ventricle Appears normal in size, thickness, motion, and function with an ejection fraction of 60-65%. E/e'=15

Wall Motion The left ventricular wall motion is normal.

Right Ventricle Cavity appears normal. Systolic function is normal. Normal tricuspid annular plane systolic excursion (TAPSE) > 1.7 cm.

Left Atrium Left atrial volume index is normal.

Right Atrium Cavity is normal.

IAS Color Doppler indicates no evidence of shunting.

IVS There is no visible ventricular septal defect.

IVC/SVC The inferior vena cava demonstrates a diameter of <=21 mm and collapses >50%.

Mitral Valve Mitral valve structure is normal. The leaflets appear mildly thickened. There is trace regurgitation. There is no evidence of mitral valve stenosis.

Tricuspid Valve Tricuspid valve structure is normal. There is trace regurgitation. There is no evidence of tricuspid valve stenosis. The right ventricular systolic pressure is upper limit of normal (30-35 mmHg).

Aortic Valve There is a TAVR bioprosthetic valve. The prosthetic valve appears well-seated and appears to be functioning normally. There is no regurgitation. The gradient recorded across the prosthetic aortic valve is within the expected range.

Pulmonic Valve Pulmonic valve structure is normal. There is no regurgitation or stenosis.

Aorta Appears normal in size.

Pericardium There is no pericardial effusion.

2D Measurements

Volumes		Dimensions		Aortic Root - End	
	56.11 cm3	LVIDd	4.2 cm	Diastolic	:
stroke vo l ume		LVIDs	2.7 cm	Ao-	3.1 cm
EF Volume	62 %	IVSd	1.1 cm	sinuses	
LVED vol	66 mL	LVPWd	1 cm	Ao-st	3 cm
by BP	66 ML	FS	36 %	— junc Ao-asc	3.6 cm
LVED vol index by BP	29.1 mL/m2				
LVES vol by BP	25 mL				
LVES vol index by BP	11 mL/m2				
LVED vol by MP	60 mL				
LVED vol index by MP	26.4 mL/m2				
LVES vol by MP	22 mL				
LVES vol index by MP	9.7 mL/m2				
LA vol by MP	28 cm3				
LA vol index by	14 mL/m2				

Doppler Measurements - Aortic Valve

LVOT diameter	1.9 cm	AV LVOT	5 mmHg
LVOT area	2.83 cm2	peak	
LVOT peak vel	1.11 m/s	gradient	
LVOT peak VTI	19.8 cm		
AV peak vel	1.2 m/s		
AV VTI	22.8 cm		
AV VTI ratio	0.87		
AV area	2.6 cm2		
AV area index	1.1 cm2/m2		
AV mean gradient	2 mmHg		
AV peak gradient	6 mmHg		
AV velocity ratio	0.93		

Doppler Measurements - Mitral Valve

OPP10			
MV VTI	34.7 cm	MV peak	121 cm/s
MV mean	3 mmHg	E vel	
gradient		MV e'	8.6 cm/s
MV peak gradient	6 mmHg	tissue velocity	
MV valve	y MV E/e'		
area by continuity eq		tissue velocity	14.07
		tissue velocity	7.8 cm/s
		tissue velocity	15.51
		_	88 cm/s

Doppler Measurements - Tricuspid Valve

RVSP 32 mmHg TR peak 29 mmHg TR max 2.7 m/s gradient vel

Doppler Measurements - Pulmonic Valve

PV peak gradient 3 mmHg Pulmonic Valve 108 ms
Acceleration
Time
PV PEAK 0.9 cm/s

VELOCITY

Doppler Measurements - Diastolic Filling

E/A ratio 1.38 E wave decelartion time 185 msec

IVRT 79 msec MV "A" wave duration 151 msec

Pulm vein "A" wave duration

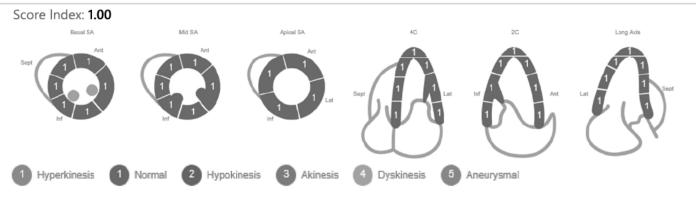
98 msec

Doppler Measurements - Shunt Ratio

LVOT stroke volume

56.11 cm3

Wall Motion



PACS Images

(Link Unavailable) Show images for Transthoracic echo (TTE) complete with or without micro-bubble contrast as needed per protocol

☐ Encounter-Level Documents on 02/06/2023:

Condition of Registration - Electronic signature on 2/6/2023 8:51 AM - E-signed

Signed

Electronically signed by on 2/6/23 at 1140 PST

Printable Result Report

Result Report

View Encounter