# F Transthoracic echo (TTE) complete with or without micro-bubble contrast as needed per protocol: Result Notes

FYI. Ordered by another provider.

#### All Reviewers List

Gender Identity:

on 5/23/2024 12:11

# Transthoracic echo (TTE) complete with contrast

MRN:

DOB: (71 y.o.)

(/ I y.o.) Ma**l**e Indications:

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

CM)]

Height: 1.702 m (5' 7") Weight: 101 kg (222 lb 8 oz)

BSA: 2.12 m<sup>2</sup> BP: 110/71

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

- · Left Ventricle: Systolic function is normal with an ejection fraction of 55-60%.
- Aortic Valve: There is a TAVR bioprosthetic valve. The prosthetic valve appears to be functioning normally. There is
  no regurgitation. The gradient recorded across the prosthetic aortic valve is within the expected range.

### Study Details

Echo An echo was performed using complete 2D, color flow Doppler and spectral Doppler. Definity (4 mL) contrast was used during the study. Definity was used for evaluation of LV wall motion. Overall the study quality was adequate. The study had technical difficulties.

### **Myocardial Findings**

Left Ventricle Cavity appears normal. Wall thickness is normal. Systolic function is normal with an ejection fraction of 55-60%. See diagram for wall motion abnormalities. There is diastolic dysfunction.

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 small.

IAS Color Doppler indicates no evidence of shunting.

IVS There is no visible ventricular septal defect.

Mitral Valve 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. Tricuspid regurgitation jet is inadequate for evaluation of RVSP.

Aortic Valve There is a TAVR bioprosthetic valve. The prosthetic valve 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 trace regurgitation. There is no evidence of pulmonic valve stenosis.

Aorta Appears normal in size.

Pericardium There is no pericardial effusion.

#### 2D Measurements

Dividadulements					
Volumes LVOT	64.09 cm3	Dimensions LVIDd 4.38 cm		Aortic Root - End Diastolic	
stroke vo <b>l</b> ume	56	LVIDs	2.93 cm	Ao-	3.06 cm
EF		IVSd	1.03 cm	sinuses	2.06
	106 mL	LVPWd	0.99 cm	Ao-st junc	2.86 cm
by BP	100 IIIL	FS	33	Ao-asc	3.6 cm
LVED vol index by BP	48.6 mL/m2				
LVES vol by BP	46.3 mL				
LVES vol index by BP	21.2 mL/m2				
LVED vol by MP	108 mL				
LVED vol index by MP	49.5 mL/m2				
LVES vo <b>l</b> by MP	42.1 mL				
LVES vol index by	19.3 mL/m2				

MP	
LA vol by	53.5 cm3
MP	
LA vol	31.6
index by	mL/m2
BP	

**Doppler Measurements - Aortic Valve** 

•	oppler weastrements - Aortic valve				
	LVOT diameter	1.8 cm	AV LVOT	6 mmHg	
	LVOT area	2.54 cm2	peak		
	LVOT peak vel	1.23 m/s	gradient		
	LVOT peak VTI	25.2 cm			
	AV peak vel	1.43 m/s			
	AV VTI	28.2 cm			
	AV VTI ratio	0.89			
	AV area	1.97 cm2			
	AV area index	0.9 cm2/m2			
	AV mean gradient	4 mmHg			
	AV peak gradient	10 mmHg			
	AV velocity ratio	0.86			

# Doppler Measurements - Mitral Valve

MV VTI		MV regurgitation pressure 1/2 time	sure 1/2	MV peak	124 cm/s
MV mean gradient	3 mmHg			E vel MV e'	7.51 cm/s
MV peak gradient	6 mmHg			tissue velocity	
MV valve area P1/2	4 cm2			MV E/e	16.51
MV valve 2.0 area by continuity	2.09 cm2	-		tissue velocity lateral	
eq	55 ms			MV e' tissue velocity medial	6.42 cm/s
MV stenosis P1/2					
				MV E/e' tissue velocity medial	19.31
				MV Peak A Ve <b>l</b>	110 cm/s

# Doppler Measurements - Pulmonic Valve

PV peak gradient	3 mmHg	Pulmonic Valve Acceleration Time	132 ms
		PV PEAK VELOCITY	0.83 cm/s

# Doppler Measurements - Diastolic Filling

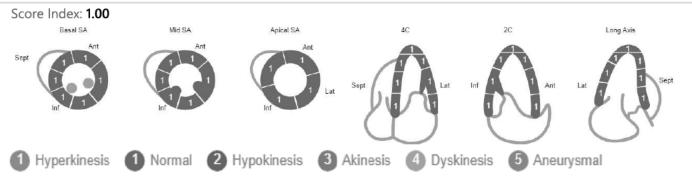
E/A ratio 1.13 E wave decelartion time 187 msec

### **Doppler Measurements - Shunt Ratio**

LVOT stroke volume

64.09 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 05/23/2024:

Condition of Registration - Electronic signature on 5/23/2024 8:30 AM - E-signed

#### Signed

Electronically signed b on 5/23/24 at 1203 PDT

### **Printable Result Report**

← Supplementation

← Supple

Result Report

View Encounter