Transthoracic echo (TTE) complete with contrast

Name: MRN:

DOB:

Gender Identity: Male

Height: 1.753 m (5' 9")

Weight: 110 kg (242 lb 15.2 oz)

BSA: 2.24 m<sup>2</sup> BP: 125/65

Interpreting Physicians

Performing Staff

<sup>♣</sup> 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
N/A	9/2/2021	
N/A	11/25/2022	
N/A	12/28/2022	
N/A	8/3/2023	
N/A	8/3/2023	
	N/A N/A N/A	N/A 9/2/2021  N/A 11/25/2022  N/A 12/28/2022  N/A 8/3/2023

# **!** Interpretation Summary

- Normal LV cavity size and wall thickness. Systolic function is normal with an ejection fraction of 60-65%. Akinesis
  of the basal inferior wall. Left atrial pressure is elevated.
- Normal RV cavity size with normal RV systolic function.
- Well-seated TAVR bioprosthetic valve with normal prosthetic valve function. The gradient recorded across the
  prosthetic aortic valve is within the expected range 13 mmHg.
- No pericardial effusion.

Compared with prior study report 2/6/2023, basal inferior akinesis is now noted.

## **Study Details**

Echo An echo was performed using complete 2D, color flow Doppler and spectral Doppler.

Lumason (4 mL) contrast was used during the study. Lumason was used for evaluation of LV wall motion. Overall the study quality was adequate. The study had technical difficulties. The study was difficult due to patient's body habitus.

Rhythm normal sinus

Prior Study Prior TTE study available for comparison. Prior study date: 2/6/2023. Akinesis of the basal inferior wall.

#### **Myocardial Findings**

Left Ventricle Cavity appears normal. Wall thickness is normal. Systolic function is normal with an ejection fraction of 60-65%. Akinesis of the basal inferior wall. Left atrial pressure is elevated.

Pulmonary venous flow is S dominant.

Wall Motion The following segments are akinetic: basal inferior.

All other segments are 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 (24 ml/M sq.).

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 The leaflets appear mildly thickened and appear to exhibit normal excursion. There is trace

regurgitation. There is no evidence of mitral valve stenosis.

Tricuspid Valve The leaflets are not thickened and exhibit normal excursion. 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 well-seated and appears to be functioning normally. Valve leaflet motion is normal. There is no regurgitation. The

gradient recorded across the prosthetic aortic valve is within the expected range.

Pulmonic Valve The leaflets are not thickened and exhibit normal excursion. There is trace regurgitation. There

is no evidence of pulmonic valve stenosis.

Aorta The sinus of Valsalva is normal. The ascending aorta is normal. The transverse aorta is normal.

Pericardium There is no pericardial effusion.

#### 2D Measurements

Volumes		Dimensions		Aortic Root - End	
LVOT 5 stroke volume	59.97 cm3	LVIDd	5 cm	Diastolic	
		LVIDs	3.1 cm	Ao- sinuses	3.2 cm
		IVSd	0.9 cm		
LA vol by MP				Ao-asc	2.9 cm
		LVPWd	0.9 cm	AU-asc	2.9 (111
IVIP		FC	30.0/	Ao-arch	2.9 cm
LA vol index by BP	24 mL/m2	FS	38 %		

#### **Doppler Measurements - Aortic Valve**

-  -				
LVOT diameter	2 cm	AV LVOT	4 mmHg	
LVOT area	3.14 cm2	peak		
LVOT peak vel	0.96 m/s	gradient		
LVOT peak VTI	19.1 cm			
AV peak vel	2.4 m/s			
AV VTI	46.5 cm			
AV VTI ratio	0.41			
AV area	1.5 cm2			
AV area index	0.7 cm2/m2			

AV mean	13 mmHg
gradient	
AV peak	16 mmHg
gradient	
AV velocity	0.4
ratio	

# Doppler Measurements - Mitral Valve

oppier ivi	easuremen	its - Miitra	a vaive
MV peak 6 mmHg gradient	6 mmHg	MV peak E ve <b>l</b>	118 cm/s
	MV e' tissue velocity lateral	7.1 cm/s	
	MV E/e' tissue velocity lateral	16.62	
	MV e' tissue velocity medial	4.5 cm/s	
		MV E/e' tissue velocity medial	26.22
		MV Peak	109 cm/s

# **Doppler Measurements - Pulmonic Valve**

A Vel

PV peak gradient	4 mmHg	Pulmonic Valve Acceleration Time	74 ms
		PV PEAK VELOCITY	0.9 cm/s

# **Doppler Measurements - Diastolic Filling**

E/A ratio 1.08	E wave decelartion time	190 msec		
		Pulm vein "A" wave	85 msec	
		duration		

# **Doppler Measurements - Shunt Ratio**

LVOT stroke volume 59.97 cm3

#### **Wall Motion**

# Score Index: 1.12 Basal SA Mid SA Apical SA 4C 2C Long Axis Sept Ant Ant Ant Indian Sept Indian Sept

## **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 08/03/2023:

After Visit Summary - Document on 8/4/2023 3:18 PM: IP AVS - Discharge to Home MOON - Electronic signature on 8/3/2023 5:44 AM - E-signed Condition of Registration - Electronic signature on 8/3/2023 2:55 AM - E-signed

- Consent for Treatment Scan on 8/8/2023 3:32 PM
- EKG Scan on 8/4/2023 12:49 PM
- EKG Scan on 8/3/2023 2:56 PM
- EKG Scan on 8/3/2023 2:41 PM
- EKG Scan on 8/3/2023 11:10 AM
- EKG Scan on 8/3/2023 9:39 AM
- EKG Scan on 8/3/2023 5:07 AM
- > EKG Scan on 8/3/2023 4:37 AM
- EKG Scan on 8/3/2023 4:07 AM
- EKG Scan on 8/3/2023 3:37 AM
- EKG Scan on 8/3/2023 3:22 AM
- EKG Scan on 8/3/2023 3:22 AM
- EKG Scan on 8/3/2023 3:07 AM
- EKG Scan on 8/3/2023 2:45 AM

# ☐ Order-Level Documents on 08/03/2023:

## Signed

Electronically signed b

#### **Printable Result Report**

Result Report View Encounter

Cardiac Studies - Scan on 8/8/2023 3:32 PM