### SWEDISH CHERRY HILL SCDIC ECHO

500 17TH AVE STE 630 SEATTLE WA 98122-5711 206-320-5353 Imaging Result Report



# ECHO Complete

Patient: Tomkinson, John George "Jack"

DOB: 1/26/1957 MRN: 60007566543 Phone:

Gender: Male

206-992-2779

08/16/2024 16:25 **Exam Date:** Ordering Clinician: Anna Robyn Smith Reading Physician: Santanu Biswas, MD

Afib / aflutter Reason:

Indications: Other persistent atrial fibrillation

(HCC)

### Conclusion

- Left ventricle size is normal. Mildly increased wall thickness. Normal systolic function. LV EF is 60%, assessed by modified Simpson's biplane. Left ventricle stroke volume index is 29 mL/m2. Normal wall motion. There is normal left atrial pressure and grade I left ventricular diastolic dysfunction.
- Right Ventricle: Right ventricle size is normal. Lead present in the right ventricle. Normal systolic function.
- Mild bi-atrial enlargement. Lead present in the right atrium.
- No significant valvular abnormalities.
- Aorta: Mildly enlarged ascending aorta. Normal sized sinus of Valsalva. Ascending aorta is 4 cm.
- No pericardial effusion.

### Comparison

### Prior Study

Prior stress echo study available for comparison. Prior study date: 12/17/2018.

#### **Study Details**

Study Details

- •A complete transthoracic echocardiogram was performed.
- ·Standard views were obtained.
- Overall image quality was fair.
- •The study was technically adequate.
- •The predominant underlying rhythm was ventricular paced.

•Height: 172 cm ·Weight: 84.4 kg

•Body Surface Area: 1.9762 m2 •Body Mass Index: 28.5289 kg/m2 •Blood pressure: 164 / 105 mmHg

•Heart rate: 65 bpm

## **Findings**

Left Ventricle Left ventricle size is normal. Mildly increased wall thickness. Normal systolic function. Left ventricle stroke volume index is 29 mL/m2. Normal wall motion. There is normal left atrial

pressure and grade I left ventricular diastolic dysfunction.

Ejection Fraction LV EF is 60%, assessed by modified Simpson's biplane.

Right Ventricle Right ventricle size is normal. Lead present in the right ventricle. Normal systolic function.

Left Atrium Left atrium is dilated. Left atrial volume index is 39 mL/m2.

Right Atrium Right atrium is mildly dilated. Right atrial area is 19 cm2. Lead present in the right atrium.

Aortic Valve Valve structure is tricuspid. Mildly thickened cusps. Mildly calcified cusps. No regurgitation.

No stenosis.

Mitral Valve Valve structure is normal. Trace regurgitation. No stenosis.

Tricuspid Valve Valve structure is normal. Trace regurgitation. No stenosis.

Pulmonic Valve Valve structure is normal. No regurgitation. No stenosis.

Great Vessels Mildly enlarged ascending aorta. Normal sized sinus of Valsalva. Ascending aorta is 4 cm.

IVC/SVC IVC size is normal.

Right Sided The IVC diameter is </=21 mm with a <50% collapse with inspiration suggesting a right atrial

Pressures pressure of 8 mmHg.

The right atrial pressure is intermediate.

Unable to assess right ventricular systolic pressure due to the lack of measurable tricuspid

regurgitation.

Pericardium No pericardial effusion.

### **Aortic Valve Measurements**

AV General		LVOT	
AV peak vel	116 cm/s	LVOT peak vel	95 cm/s
AV VTI	20.5 cm	AV LVOT Peak	4 mmHg
AV peak	5 mmHg	Gradient	
gradient		AV LVOT	2 mmHg
AV mean gradient	3 mmHg	Mean Gradient	
Aortic Valve Area	2.7847 cm2	LVOT peak VTI	16.8 cm
by Continuity		LVOT diameter	2.08 cm
VTI		LVOT	67.1
AV DVI	0.819	Mean Velocity	cm/s
AV Mean Velocity	80.5 cm/s	·	

#### **Mitral Valve Measurements**

MV General		MV Tissue D	MV Tissue Doppler	
MV Peak	40.7	MV E'	3.3 cm/s	
E-Wave	cm/s	Septal		
		Velocity		
MV Peak	59.1	MV E'	7.1 cm/s	
A-Wave	cm/s	Lateral		
		Velocity		
MV E/A	0.6887	MV E/E	12.3	
Ratio		SEPTAL		
MV	251	MV E/E	5.7324	
Deceleratio	msec	LATERAL		
n Time				

### **Pulmonic Valve Measurements**

PV General	
PI Peak Velocity	100 cm/s
PV peak gradient	4 mmHg

PV Acceleration Time

69 msec

Left Atrium General

LV Dimensio		LV Function		LV Volume/A		
LV Systolic	4.7 cm	LVEF-TTE TRANSTH ORACIC	60 %	LV ED Volume (Simpson's	64.7 ml	
LV Systolic Diameter	3.1 cm	ECHO	60 %	(Simpson's	26 2 ml	
MM IVS	1.2 cm	LV Simpson's	<b>OU</b> 70	LV ES Volume	26.2 ml	
Diastolic Thickness MM		Biplane EF Teicholz Ef Calc	63 %	LV ED Volume Index	32.7396 ml/m2	
LVPW Diastolic	0.97 cm	Stroke Volume	57 ml	LV ES Volume	13.2578 ml/m2	
Thickness MM	0.00	Stroke Volume	29 ml/m2	LV	68.8 mL	
LVOT diameter	2.08 cm	Index Cardiac Output	3.7106 l/min	Diastolic Volume MOD 2C		
		Cardiac Index	1.8776 I/min/m2	LV Diastolic Volume MOD 4C	58.9 mL	
		FS	34 %	LV Systolic Volume MOD 2C	29.2 mL	
				LV Systolic Volume MOD 4C	22.8 mL	
				LV Area Diastolic	25.2 cm2	
				LV Systolic Area PSAX	15.1 cm2	
				LV mass AL	183.9892 g	
				LV Mass Index	93.1025 g/m2	
				LV Diastolic Length 4C	8.01 cm	
	Measurements	5				
RV Size				RV Function		
RV Base		3.1 cm		TAPSE		1 cm
RV Diastolic		7.1 cm		RV Fractiona Change	l Area	46.5909 %
RV Diastolic	Mid Diameter	3 cm				
RV Diastolic	Area	17.6 cm2				
RV Systolic A	Area	9.4 cm2				
: Atrium Mea	surements					

LA Major

6.2 cm

Left Atrium	Measurements	(continued)
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LA Area	23.1 cm2
LA volume	77.8 mL
LA Volume Index	39 mL/m2

**Right Atrium Measurements** 

Right Atrium General		RA Minor	4.7 cm	4.7 cm
RA Area	19 cm2			
		RA Major	4.97 cm	
		RA Volume	57 ml	
		RA Volume Index	29 ml/m2	

# **Great Vessels Measurements**

Aorta
Aortic Root 3.5 cm
Diameter
Ascending aorta

Aorta

**Signing Physician** 

Signing Physician: Santanu Biswas, MD on 8/16/2024 7:04 PM