## **Pacific Heart Centre**

Dr Sreekanth Kodur Cardiologist

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## TRANSTHORACIC ECHOCARDIOGRAM REPORT

 Patient:
 RIGGS KEVIN
 Height
 177 cm

 Patient ID
 11586
 Weight
 92 kg

 Date of birth:
 14/07/1945 (79 years)
 BSA:
 2.09 m²

Gender: Male BMI: 29.37 kg/m²

Exam date: 8/08/2024 Sonographer: Nicole Coutanche (ASAR 9681)

Location: Maitland Referal: Dr. Andrew Hill

Indication AVR 2011, AF, LBBB

Conclusions 1. Normal size left ventricle with low normal systolic function. Calculated LVEF 50 %.

Average global longitudinal strain value -12 %. Mild concentric left ventricular hypertrophy.

Grade II (of IV) diastolic dysfunction. Elevated filling pressures. 2. Normal right ventricular size with normal systolic function.

3. Severely dilated left atrium.

4. Bioprosthetic aortic valve with mild to moderately elevated transvalvular pressure gradients. Increased AV gradients compared to study performed in July 2023.

5. Mild tricuspid valve regurgitation.

6. Normal pulmonary artery pressure at rest (PASP 31 mmHg).

7. Sinus bradycardia (HR 50 bpm).

Rhythm Sinus bradycardia (HR 50 bpm) with a wide QRS complex

Left Ventricle Normal left ventricular size with low normal systolic function. Calculated left ventricular

ejection fraction is 50 % ([52-72]). Mild concentric left ventricular hypertrophy. Grade II (of

IV) diastolic dysfunction. Elevated filling pressures.

Right Ventricle Normal right ventricular size (RV Base 4.1 cm [2.4-4.2]) with normal systolic function (RV S'

13 cm/s [>=10]).

Left Atrium Severely dilated chamber (52.1 ml/m²).

Right Atrium Normal size chamber (30.7 ml/m²).

Atrial Septum Normal interatrial septum. No obvious shunt flow on Colour Doppler.

Aortic Valve Bioprosthetic aortic valve with moderate stenosis. Most anterior leaflet appears calcified.

Trivial aortic regurgitation.

Mitral Valve Mildly calcified leaflets with normal excursion. No mitral stenosis. Mild mitral

regurgitation.

Tricuspid Valve Normal leaflets. Mild tricuspid regurgitation.

Pulmonary Normal valve structure. Trivial pulmonary regurgitation. Normal RVOT Doppler profile

Valve (Pulm acc. time 93 ms).

Pericardium Normal pericardium with no pericardial effusion.

Aorta Normal size aortic root (3.5 cm). Mildly dilated proximal ascending aorta (3.5 cm). Aortic

arch not well visualised.

IVC Dilated IVC (22.1 mm) with normal respiratory collapse. RAP 8 mmHg.

Measure M mode

TAPSE → 1.5 cm



	[>=1.7]				
2D mode					
IVSd	1.2 cm	LVESV (Auto EF	54.3 ml	RV mid	2.7 cm
LVIDd	5.1 cm	A2C)			[1.9-3.5]
	[4.2-5.8]	LVSV (Auto EF A4C)	37.5 ml	LAESVI (A-L)	52.1 ml/m <sup>2</sup>
LVIDs	3.9 cm	LVSV (Auto EF A2C)	55.3 ml	LAESVI (MOD BIP)	49 ml/m²
	[2.5-4.0]	LVEF (Auto EF A4C)	46 %	RAESV (MOD)	64.1 ml
LV FS	25 %	LVEF (Auto EF A2C)	50 %	LVOT Diam	2.2 cm
LVPWd	1.2 cm	LVEF (MOD BIP)	50 %	Sinus. of Valsalva	3.5 cm
LVEF (Teich)	49 %		[52-72]	Diam	[3.1-3.7]
LVEDV (Auto EF	82.0 ml	IVC	22.1 mm	Ao st junct Diam	2.7 cm
A4C)		RV basal	4.1 cm		[2.6-3.2]
LVEDV (Auto EF	109.6 ml		[2.4-4.2]	Ao Asc Diam	3.5 cm
A2C)					[2.6-3.4]
LVESV (Auto EF	44.5 ml				
A4C)					
Doppler					
MV E Velocity	1.05 m/s	LVOT SVI	56.5 ml/m <sup>2</sup>	TR max PG	22.64 mmHg
MV E / A	0.89	AV Vmax	3.31 m/s	RAP	8.00 mmHg
	[0.6-1.32]	Dimensionless	0.33	RVSP	31 mmHg
MV Dec. Time	277 ms	Index		PV Vmax	1.52 m/s
	[142-258]	AV max PG	43.90 mmHg	PV Vmean	0.99 m/s
MV Vmax	1.11 m/s	AV mean PG	27.34 mmHg	PV max PG	9.22 mmHg
MV mean PG	1.77 mmHg	AVA (Vmax)	1.2 cm <sup>2</sup>	PV mean PG	4.61 mmHg
MV VTI	54.4 cm	AVA (VTI)	1.3 cm <sup>2</sup>	PV Acc. Time	93 ms
MVA (VTI)	2.2 cm <sup>2</sup>	AVAI (VTI)	0.6 cm <sup>2</sup> /m <sup>2</sup>	P Vein S / D	1.46
MV HR	44 bpm	LV HR	50 bpm		
LVOT Vmax	1.08 m/s	TR Vmax	2.38 m/s		
LVOT max PG	4.65 mmHg				
TDI					
MV E' Sept •	4 cm/s	MV E / E' Lat	13.5	MV E / E' Avg	17.3
WIV L Sept V	[6-15]	MV E' Avg	6 cm/s	TV S'	13 cm/s
MV E / E' Sept	24.1				[>=10]
MV E' Lat	8 cm/s				
IVIV E Lat	[6-20]				
2D Strain	[0-20]				
	12.0/				
GLPS avg (AFI)	-12 %				
Other					5
Ao sinus Ind	1.66 cm/m2	LVCO 4Ch Q	2.26 l/min	LVLd 2Ch Q	7.9 cm
Ao st junct Ind	1.31 cm/m2	LVLs 4Ch Q	7.2 cm	LVVED BIP Q	95 ml
Ao asc Ind	1.70 cm/m2	LVLd 4Ch Q	8.0 cm	LVVES BIP Q	48 ml
RAESV Ind	30.66 ml/m2	HR 2Ch Q	61 BPM	LVSV BiP Q	47 ml
ePLAR	0.14	LVCO 2Ch Q	3.38 l/min	LVCO BiP Q	2.82 l/min
LVOT Env.Ti	390 ms	LVLs 2Ch Q	7.0 cm	LA Length Diff	-0.3 cm
HR 4Ch Q	60 BPM				

Dr S Kodur

Nicole Coutanche (ASAR 9681)

M.B.B.S, M.R.C.P.(UK)., F.R.A.C.P.

Cardiologist

Sonographer

CC: Dr. Alfred Oringo

