

DR STEPHEN VERNON

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Our Ref: MRN 0198323 (SV:gts)

2 May 2024

Dr David Lifson
270 Victoria Avenue
CHATSWOOD NSW 2067

Re: Ian Green DOB: 27/10/1946
23 Cobar Street Willoughby NSW 2068
Telephone No: 0424 807 457

TRANSTHORACIC ECHOCARDIOGRAM REPORT

CLINICAL DIAGNOSES: TAVR. Recurrent infective endocarditis. Bioprosthetic aortic valve - patient mismatched.
Progress echocardiogram.
Height 1.82 m. Weight 97 kg. BSA 2.18 m².

	Results	Normal Range
Aortic Outflow	4.7 cm	(2.0 – 3.7 cm)
LVOT	2.4 cm	
Septal Thickness	1.2 cm	(0.7 – 1.1 cm)
Post LV Wall Thickness	1.3 cm	(0.7 – 1.1 cm)
LV End-diastolic Dimension	5.9 cm	(3.5 – 5.6 cm)
LV End-systolic Dimension	4.1 cm	(2.5 – 4.1 cm)
RV Internal Dimension		(0.7 – 2.3 cm)
LA Internal Dimension		(1.9 – 4.0 cm)
MV Peak E-wave: 1.1 m/s	Em (E'): 4.5 cm/s	Peak AV Flow Velocity: 4.0 m/s VTI: 115 cm
MV Peak A-wave: 0.57 m/s		Peak LVOT Flow Velocity: 1.1 m/s VTI: 30 cm
MV E/A: 1.9		TR Vmax: 2.8
	E/E' lateral 24	LAVI: 47 mL/m ² LAA: 32 cm ² RAA: 27 cm ²
Ascending aorta: 4.6 cm		TAPSE: 2.3 RVS':

FINDINGS:

1. Mildly dilated left ventricle with normal systolic function. LVEF 55% to 60%. No regional wall motion abnormality.
2. Mild concentric left ventricular hypertrophy.
3. Upper-normal right ventricular size with normal systolic function.
4. Moderately dilated left atrium. Mild to moderately dilated right atrium.
5. Moderately dilated aortic root. Moderately dilated ascending aorta.
6. **Aortic valve:** Tissue bioprosthesis. Well-seated. Leaflets appear thickened with mild restriction of leaflet opening. Elevated flow velocities secondary to patient-prosthesis mismatch and prosthetic valve stenosis. PV 4.0 m/sec, MG 37 mmHg, DVI 0.28, AT 148 msec. Mild transvalvular regurgitation. PHT 523 msec.
7. **Mitral valve:** Normal structure. Trivial regurgitation.
8. **Tricuspid valve:** Normal structure. Mild regurgitation.
9. **Pulmonary valve:** Normal structure. Trivial regurgitation.
10. Estimated PASP 33 mmHg assuming right atrial pressure of 3 mmHg.
11. No intracardiac shunts, thrombus, masses or pericardial effusion detected.
12. Sinus rhythm 58 beats/min.

CONCLUSIONS: Mildly dilated left ventricle with normal systolic function. LVEF 55% to 60%. Mild concentric left ventricular hypertrophy. Upper-normal right ventricular size with normal systolic function. Moderate left atrial dilatation. Bioprosthetic aortic valve in situ with thickened leaflets and elevated flow velocity secondary to patient-prosthesis mismatch plus prosthetic valve stenosis. Mild regurgitation. No vegetations detected. Mild tricuspid regurgitation. ePASP 33 mmHg. Moderately dilated aortic root and ascending aorta.

With best wishes
Yours sincerely

A handwritten signature in black ink, appearing to read 'Dr Stephen Vernon', with a stylized flourish at the end.

Dr Stephen Vernon