

## Transthoracic Echocardiogram Report

Patient	AUSTIN, GAETANE NSP MRN: ME00457693				Date	13-02-2025
DOB	18-11-1941	Sex	F		Patient ID	GA181141
Referred by	Dr Peter Hansen (E: ps_hansen@bigpond.com)				Study ID	A465/25
Height	1.63 m	Weight	91 KG	BSA	1.96 m2	Heart rhythm/rate
Indication	TAVI work up					

## Measurements

LV/Atrial Chamber Size		Diastology		RV Function/Pulmonary HTN		Aortic Valve	
LVIDd:	4.6 cm	E vel:	111 cm/s	RVS' :	11 cm/s	AV Vmax:	493 cm/s
LVIDs:	3.0 cm	Decel time:	-	TAPSE:	19 mm	AV PG:	97mmHg
IVSWd:	1.4 cm	A vel:	-	RV Frac:	-	AV MG:	63mmHg
LVPWd:	1.2 cm	E/A:	-	PAAT:	-	AV VTI:	102cm
LA size:	5.4 cm	E' sept:	6.2 cm/s	RV Base:	-	LVOT Vmax:	95 cm/s
EF BP:	67 %	E' lateral:	9.1 cm/s	RV Mid. :	-	LVOT VTI:	20.3 cm
LA Area:	37 cm2	E/E' avg:	15.1	RV Length:	-	AVA VTI:	0.6cm2
LA Vol Ind:	70 ml/m2			TR Vmax:	2.7 m/s	AVAi:	0.32 cm2/m2
RA Area:	29 cm2			RVSP-RA:	29 mmHg	SVi:	32.7 mL/m2
GLS:	[-]			IVC:	2.1 cm		
				Collapse=>50%:	Yes		
Mitral Valve		Aorta		Tricuspid Valve		Pulmonary Valve	
MV MG:	2 mmHg	LVOT Diam:	2.0 cm	TV MG:		PV Vmax:	90 cm/s
PHT:	70 ms	AoRD :	3.1 cm	TV pk E:		PV PG:	3 mmHg
MVA (PHT):	3 cm2	Asc Aorta:	3.3 cm			Qp:Qs	
		Arch:	-				

## Comments

Left Ventricle	Normal left ventricular size and systolic function. Left ventricular ejection fraction estimated at 65%.
LV Wall Thickness	Moderate concentric left ventricular hypertrophy.
Right Ventricle	Normal right ventricular chamber size and systolic function.
Left Atrium	Moderately to markedly dilated left atrium.
Right Atrium	Mildly dilated right atrium.
Aortic Valve	Trileaflet aortic valve. Markedly thickened and calcified leaflets. Markedly restricted valve opening on 2D. Doppler data as in table above consistent with severe stenosis. Mild aortic regurgitation.
Mitral Valve	Marked posterior mitral annular calcification extending onto the posterior leaflet. Mildly thickened anterior mitral leaflet. Moderate to severe or severe mitral regurgitation. Jet perimeter not well circumscribed. Mean diastolic pressure gradient 2 mmHg.
Tricuspid Valve	Structurally normal tricuspid valve. Mild tricuspid regurgitation.
PASP	PASP 37 mmHg assuming RA pressure of 8 mmHg.
Pulmonary Valve	Mild pulmonary regurgitation.
Aorta	Normal aortic root and ascending aortic sizes.
Pericardium	No pericardial effusion.
Additional Notes	None.

## Conclusions

- Atrial fibrillation. 77/min.
- Normal left ventricular size and systolic function. Left ventricular ejection fraction estimated at 65%. Moderate concentric left ventricular hypertrophy.
- Normal right ventricular chamber size and systolic function. Moderately to markedly dilated left atrium. Mildly dilated right atrium.
- Trileaflet aortic valve. Markedly thickened and calcified leaflets. Markedly restricted valve opening on 2D. Doppler data as in table above consistent with severe stenosis. Mild aortic regurgitation.
- Marked posterior mitral annular calcification extending onto the posterior leaflet. Mildly thickened anterior mitral leaflet. Moderate to severe or severe mitral regurgitation. Jet perimeter not well circumscribed. Mean diastolic pressure gradient 2 mmHg.
- Structurally normal tricuspid valve. Mild tricuspid regurgitation. Mild pulmonary hypertension.

Cardiologist	Dr Chris Choong	Sonographer: Helen Gessler
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CC To: NSP Structural Heart (E Structuralheart.nsp@ramsayhealth.com.au)