

## Transthoracic Echocardiogram Report

Patient	MOONEY, GRAHAME ME00465771					Date	25-06-2025
DOB	31-12-1942	Sex	M			Patient ID	GM311242
Referred by	Prof Ravinay Bhindi					Study ID	A2545/25
Height	1.75 m	Weight	80 KG	BSA	1.96 m2	Heart rhythm/rate	SR 60/min
Indication	TAVI work-up						

## Measurements

LV/Atrial Chamber Size		Diastology		RV Function/Pulmonary HTN		Aortic Valve	
LVIDd:	4.6 cm	E vel:	58 cm/s	RVS' :	15 cm/s	AV Vmax:	334 cm/s
LVIDs:	2.8 cm	Decel time:	-	TAPSE:	20 mm	AV PG:	45 mmHg
IVSWd:	1.3 cm	A vel:	93 cm/s	RV Frac:	-	AV MG:	25 mmHg
LVPWd:	1.3 cm	E/A:	0.6	PAAT:	-	AV VTI:	76.1 cm
LA size:	4.4 cm	E' sept:	3.7 cm/s	RV Base:	-	LVOT Vmax:	79 cm/s
EF BP:	62 %	E' lateral:	3.8 cm/s	RV Mid. :	-	LVOT VTI:	20.2 cm
LA Area:	21 cm2	E/E' avg:	15.5	RV Length:	-	AVA VTI:	0.82 cm2
LA Vol Ind:	34 ml/m2			TR Vmax:	2.4 m/s	AVAi:	0.42 cm2/m2
RA Area:	17 cm2			RVSP-RA:	24 mmHg	SVi:	32 mL/m2
GLS:	[-]			IVC:	-	DVI	0.23
				Collapse=>50%:	[Yes/No]		
Mitral Valve		Aorta		Tricuspid Valve		Pulmonary Valve	
MV MG:	-	LVOT Diam:	2.0 cm	TV MG:		PV Vmax:	89 cm/s
PHT:	-	AoRD :	3.9 cm	TV pk E:		PV PG:	3 mmHg
MVA (PHT):	-	Asc Aorta:	3.6 cm			Qp:Qs	
		Arch:	-				

## Comments

Left Ventricle	Normal left ventricular size and systolic function. Left ventricular ejection fraction estimated at around 65%. No segmental abnormality detected.
LV Wall Thickness	Mild concentric left ventricular hypertrophy.
Right Ventricle	Normal right ventricular chamber size and systolic function.
Left Atrium	Mildly dilated left atrium.
Right Atrium	Normal right atrial size.
Aortic Valve	Trileaflet aortic valve. Markedly thickened and calcified leaflets. Markedly restricted valve opening on 2D (eg clips 26, 27). Doppler data as in table above. Moderate systolic pressure gradient. Calculated valve area in the severe range. Findings consistent with low flow low gradient paradoxical severe aortic stenosis with normal LVEF. SVI 32 ml/m2, DVI 0.23. Mild aortic regurgitation.
Mitral Valve	Mild posterior mitral annular calcification. Structurally normal mitral leaflets. Trivial mitral regurgitation within normal limits.
Tricuspid Valve	Normal tricuspid valve structure. Mild tricuspid regurgitation.
PASP	PASP ~27 mmHg assuming RA pressure of 3 mmHg. Normal pulmonary artery systolic pressure.
Pulmonary Valve	Normal pulmonary valve structure and function.
Aorta	Mildly dilated aortic root. Normal ascending aortic size.
Pericardium	No pericardial effusion.
Additional Notes	No mass seen. No shunt detected with colour Doppler evaluation. No atrial septal aneurysm.

## Conclusions

- Pacing leads in the right heart. Atrial sensing or pacing with probable native ventricular conduction 60/min.
- Normal left ventricular size and systolic function. Left ventricular ejection fraction estimated at around 65%. No segmental abnormality detected. Mild concentric left ventricular hypertrophy.
- Normal right ventricular chamber size and systolic function.
- Mildly dilated left atrium. Normal right atrial size.
- Trileaflet aortic valve. Markedly thickened and calcified leaflets. Markedly restricted valve opening on 2D (eg clips 26, 27). Doppler data as in table above. Moderate systolic pressure gradient. Calculated valve area in the severe range. Findings consistent with paradoxical severe aortic stenosis (low flow, low gradient, normal LVEF). SVI 32 ml/m2, DVI 0.23. Mild aortic regurgitation.
- Mild posterior mitral annular calcification. Structurally normal mitral leaflets. Trivial mitral regurgitation within normal limits.
- Normal tricuspid valve structure. Mild tricuspid regurgitation. Normal PA pressure.
- Mildly dilated aortic root. Normal ascending aortic size.