Royal North Shore Hospital

Health Northern Sydney Local Health District

Department of Cardiology
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Transthoracic Echocardiography (TTE) Study

Procedure date/time:	22/05/2025 1:57 PM	**Accession no:**	RNS-ECHO-25-3124
Patient name:	PAVLIDIS Angelo	**Patient ID:**	1238588
Date of birth:	23/01/1951	**Age:**	74 year(s)
Height:	164 cm	**Gender:**	Male
Weight:	89 kg	**BSA:**	2 m²

Procedure Staff

Interpreting Physician: Dr Fred Nasser

Sonographer: Michaela Kalogiros

Proc. sub type: TTE procedure

Indications

Aortic stenosis.
MBS Code: 55127 - valvular dysfunction (serial)

Additional Indications

B/G CABG, moderate-severe aortic stenosis.

Procedure Information

HR:	60 bpm	**Source:**	Outpatient
Rhythm:	SR with BBB	**Study location:**	Echo lab 1
Image quality:	Poor visualization	**Specialty:**	Cardiology
		Limitation reason:	Body habitus

Procedure consent: Yes

Measurements

Dimensions

Sinus of Valsalva:	3.5 cm	LV Internal Dimension (end dias):	4.4 cm
Sinus of Valsalva index:	2.1 cm/m	LV Internal Dimension (end sys):	3.2 cm
Septal Thickness:	1.4 cm	RA area:	16.3 cm²
Post LV Wall Thickness:	1.4 cm	RA volume index:	24.3 ml/m²
LA area:	21.5 cm²	LA volume (BP) index:	41.7 ml/m²
LA volume (BP):	81.5 ml		

Aortic Valve		Mitral Valve	
AV Peak velocity:	3.8 m/s	MV Peak E-wave:	0.782 m/s
AV Peak gradient:	57.2 mmHg	MV Peak A-wave:	1.2 m/s
AV Mean gradient:	33.2 mmHg	Lateral E' velocity:	0.056 m/s
AV VTI:	95.5 cm	Septal E' velocity:	0.03 m/s
LVOT diameter:	2.2 cm	E/E' lateral:	13.94
LVOT peak velocity:	0.8 m/s	E/E' septal:	26.24
LVOT VTI:	18.2 cm	E/E' average:	20.09
AVA (Continuity):	0.7 cm²	**Tricuspid Valve**	
AVA Indexed:	0.4 cm²/m²	TR velocity:	2.3 m/s
SV Indexed:	35.4 ml/m²	IVC Max:	1.4 cm
Right Ventricle		IVC Min:	0.5 cm
TAPSE:	2 cm	IVC Collapsibility index:	61.2 %
RV s' velocity:	0.11 m/s		
RV basal diam:	4.8 cm		
RV mid diam:	3.2 cm		

LV Ejection Fraction - Simpson

LVEDV (Biplane):	81.4 ml	LVESV (Biplane):	37.4 ml
LVEDVI (Biplane):	41.7 ml/m²	LVESVI (Biplane):	19.2 ml/m²
EF (Biplane):	54.1 %		

Ejection Fraction - 3D

Findings (Rest)

Left Ventricle:	Normal left ventricular chamber size, moderately increased wall thickness, and normal systolic function. Ejection fraction estimated at 54%. Unable to assess for regional wall motion abnormalities due to poor endocardial border definition.
Right Ventricle:	Mildly dilated right ventricular size and preserved systolic function.
Left Atrium:	Mildly dilated left atrium.
Right Atrium:	Normal right atrial size.
Aortic Valve:	Calcified trileaflet aortic valve with restriction of opening on 2D imaging, predominately the right coronary cusp. PG/MG 57/33, AVA 0.7; Doppler data as above consistent with moderate-severe aortic stenosis. Trivial aortic regurgitation.
Aorta:	Mildly dilated aortic root at the sinuses (3.5 cm) and dilated ascending aorta (3.6 cm).
Mitral Valve:	Moderate posterior mitral annular calcification with mildly thickened leaflets. No evidence of mitral stenosis. Trivial mitral regurgitation.
Tricuspid Valve:	Structurally normal tricuspid leaflets. Mild tricuspid regurgitation. Estimated right ventricular systolic pressure 24 mmHg (assuming a right atrial pressure of 3 mmHg)
Pulmonary Valve:	Normal pulmonary valve structure with trivial pulmonary regurgitation.
Pericardium & Pleura:	No pericardial effusion detected. Possible echodense material in pericardial space ? adipose tissue.
Septa & Shunts:	No colour Doppler evidence of an intracardiac shunt but cannot be excluded with a transthoracic study.
Additional Findings:	Normal inferior vena caval size and normal collapsibility with inspiration.

Electronically signed by Dr Fred Nasser (Interpreting Physician) on 23/05/2025 at 4:53 PM