Royal North Shore Hospital

Health Northern Sydney Local Health District

Department of Cardiology
Level 4 Acute Services Building
Pacific Highway, St Leonards NSW 2065
Phone: 61 2 9463 2500 Fax: 61 2 9463 2050

Transthoracic Echocardiography (TTE) Study

Procedure date/time:	31/07/2025 2:22 PM	**Accession no:**	1985695655
Patient name:	WADEY Anthony Keith	**Patient ID:**	0501859
Date of birth:	2/02/1936	**Age:**	89 year(s)
Height:	172 cm	**Gender:**	Male
Weight:	68 kg	**BSA:**	1.8 m²

Procedure Staff

Referring Physician: Hansen Peter
Sonographer: Zhi-Jian Huang
Interpreting Physician: Professor Geoffrey Tofler

Proc. sub type: TTE procedure

Indications

Pleural effusion, Dyspnea/SOB, Aortic stenosis, Pre-TAVI, Coronary artery disease and Hypertensive heart disease.
MBS Code: 55126 - TTE (initial, only assign once/24 months)

Procedure Information

HR:	60 bpm	**Source:**	Inpatient
Rhythm:	Normal sinus rhythm	**Study location:**	Stress lab
Image quality:	Adequate visualization	**Specialty:**	Cardiology
Procedure consent:	Yes, verbal consent given		

Measurements

Dimensions

Sinus of Valsalva:	3.1 cm	LA Internal Dimension:	3.4 cm
Sinus of Valsalva index:	1.8 cm/m	LV Internal Dimension (end dias):	4.5 cm
Septal Thickness:	1.1 cm	LV Internal Dimension (end sys):	2.9 cm
Post LV Wall Thickness:	0.9 cm	RA area:	16 cm²
LA area:	22.2 cm²	RA volume index:	19.3 ml/m²
LA volume (BP):	50.4 ml	LA volume (BP) index:	28 ml/m²

Aortic Valve

AV Peak velocity:	3.9 m/s
AV Peak gradient:	60.5 mmHg
AV Mean gradient:	31.2 mmHg
AV VTI:	84.7 cm
LVOT diameter:	2.2 cm
LVOT peak velocity:	0.8 m/s
LVOT VTI:	17.9 cm
AVA (Continuity):	0.8 cm²
AVA Indexed:	0.5 cm²/m²
SV Indexed:	38.8 ml/m²

Mitral Valve

MV Peak E-wave:	0.72 m/s
MV Peak A-wave:	0.707 m/s
Lateral E' velocity:	0.057 m/s
E/E' lateral:	12.68

Tricuspid Valve

TR velocity:	2.4 m/s

Right Ventricle

TAPSE:	2.3 cm
RV s' velocity:	0.151 m/s

LV Ejection Fraction - Simpson

LVEDV (Biplane):	54.5 ml	LVESV (Biplane):	20.4 ml
LVEDVI (Biplane):	30.2 ml/m²	LVESVI (Biplane):	11.3 ml/m²
EF (Biplane):	62.6 %	GLS (avg):	21.9 %

Ejection Fraction - 3D

LVEDV (3D):	92 ml	EF (3D):	61 %
LVESV (3D):	36 ml		

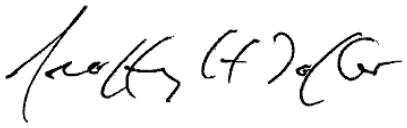
Procedure Summary

Summary:

Sinus rhythm. Normal left ventricular chamber size and upper normal wall thickness. Normal left ventricular systolic function. Ejection fraction estimated at 60%. Normal right ventricular size and systolic function. Mildly dilated left atrium. Trileaflet aortic valve with severe aortic stenosis and mild regurgitation.. Calcified aortic leaflets with severely reduced leaflet excursion. Peak flow velocity 3.9 m/s measured from apical view, predicting a peak instantaneous pressure gradient of 60mmHg and a mean pressure gradient of 34mmHg . Valve area (continuity equation) 0.8 cm2 . Mild mitral annular calcification. Mild thickening of the anterior mitral valve leaflet. Mild mitral regurgitation. Trivial tricuspid regurgitation without evidence to suggest significant pulmonary hypertension. Normal aortic root and ascending aorta size.

Findings (Rest)

Left Ventricle:	Sinus rhythm. Normal left ventricular chamber size and upper normal wall thickness. Normal left ventricular systolic function. Ejection fraction estimated at 60%. No segmental wall motion abnormality detected. Global longitudinal strain normal at 21.9 .
Right Ventricle:	Normal right ventricular size and systolic function.
Left Atrium:	Mildly dilated left atrium.
Right Atrium:	Normal right atrial size.
Aortic Valve:	Trileaflet aortic valve with severe aortic stenosis Calcified aortic leaflets with severely reduced leaflet excursion. Peak flow velocity 3.9 m/s measured from apical view, predicting a peak instantaneous pressure gradient of 60mmHg and a mean pressure gradient of 34mmHg . Valve area (continuity equation) 0.8 cm2 . Mild aortic regurgitation.
Aorta:	Normal aortic root 3.1 cm and ascending aorta size 3 cm.
Mitral Valve:	Mild mitral annular calcification. Mild thickening of the anterior mitral valve leaflet. Mild mitral regurgitation.
Tricuspid Valve:	Normal tricuspid valve structure with trivial tricuspid regurgitation. Estimated right ventricular systolic pressure 26 mmHg (assuming a right atrial pressure of 3 mmHg)
Pulmonary Valve:	Normal pulmonary valve structure with trivial pulmonary regurgitation.
Pericardium & Pleura:	No evidence of pericardial effusion.
Septa & Shunts:	No shunt detected by colour Doppler examination.
Additional Findings:	Normal IVC size and collapsibility.



Electronically signed by Professor Geoffrey Tofler (Interpreting Physician) on 31/07/2025 at 6:26 PM