



Royal North Shore Hospital

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Transthoracic Echocardiography (TTE) Study

Procedure date/time:	27/06/2025 8:57 AM	Accession no:	RNS-ECHO-25-3869
Patient name:	GRASSO Jennifer Josephine	Patient ID:	1154948
Date of birth:	19/12/1938	Age:	86 year(s)
Height:	134 cm	Gender:	Female
Weight:	52 kg	BSA:	1.3 m ²

Procedure Staff

Interpreting Physician: Dr Fred Nasser	Sonographer: Kathleen Tay
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Proc. sub type: TTE procedure

Indications

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

Additional Indications

TAVI workup.

Procedure Information

HR:	60 bpm	Source:	Outpatient
Rhythm:	Atrial fibrillation	Study location:	Echo lab 1
Image quality:	Adequate visualization	Specialty:	Cardiology
Procedure consent:	Yes, verbal consent given		

Measurements

Dimensions

Sinus of Valsalva:	2.9 cm	LV Internal Dimension (end dias):	4.2 cm
Sinus of Valsalva index:	2.13 cm/m	LV Internal Dimension (end sys):	2.6 cm
Septal Thickness:	1 cm	RA area:	20.6 cm ²
Post LV Wall Thickness:	1.1 cm	RA volume index:	43.2 ml/m ²
LA area:	26.8 cm ²	LA volume (BP) index:	67.7 ml/m ²
LA volume (BP):	90.8 ml		

Aortic Valve

AV Peak velocity:	3 m/s
AV Peak gradient:	36 mmHg
AV Mean gradient:	20.6 mmHg
AV VTI:	86.1 cm
LVOT diameter:	2.1 cm
LVOT peak velocity:	1 m/s
LVOT VTI:	24.8 cm
AVA (Continuity):	1 cm ²
AVA Indexed:	0.7 cm ² /m ²
SV Indexed:	64 ml/m ²

Right Ventricle

TAPSE:	1.5 cm
RV s' velocity:	0.096 m/s
RVFAC:	42.46 %
RV basal diam:	3.2 cm

Mitral Valve

MV Peak E-wave:	1.14 m/s
Lateral E' velocity:	0.095 m/s
Septal E' velocity:	0.053 m/s
E/E' lateral:	12.05
E/E' septal:	21.39
E/E' average:	16.72

Tricuspid Valve

TR velocity:	2.8 m/s
IVC Max:	1.9 cm

Procedure Summary**Summary:**

Normal LV size with mild regional impairment of systolic function LVEF 45%
 Marked LA dilatation
 Moderate aortic stenosis

Findings (Rest)

<u>Left Ventricle:</u>	Normal left ventricular chamber size and mildly increased wall thickness. Moderate anteroseptal hypokinesis with ejection fraction estimated at 55-60%.
<u>Right Ventricle:</u>	Normal right ventricular size and systolic function.
<u>Left Atrium:</u>	Severely dilated left atrium.
<u>Right Atrium:</u>	Moderately dilated right atrium.
<u>Aortic Valve:</u>	Thickened and calcified aortic valve leaflets with reduced mobility, mild regurgitation and moderate aortic stenosis (Vmax 3m/s, mean 21mmHg, AVA 1.1cm ²)
<u>Aorta:</u>	Dilated aortic root 2.9 cm (index 2.13 cm/m ²) and dilated ascending aorta 3.2 cm (index 2.35 cm/m ²).
<u>Mitral Valve:</u>	Thickened mitral valve and normal structure and function. Adequate valvular opening.
<u>Tricuspid Valve:</u>	Normal tricuspid valve structure and function. Normal valvular opening. Trivial tricuspid regurgitation. Estimated right ventricular systolic pressure 34 mmHg (assuming a right atrial pressure of 3 mmHg)
<u>Pulmonary Valve:</u>	Normal pulmonary valve structure and function. Normal valvular opening. Trivial pulmonary regurgitation.
<u>Pericardium & Pleura:</u>	No evidence of pericardial effusion.
<u>Septa & Shunts:</u>	No shunt detected by colour Doppler examination.
<u>Additional Findings:</u>	Normal IVC size and collapsibility.

A handwritten signature in black ink, appearing to read 'J. Nasser', is positioned in the upper left corner of the page.

Electronically signed by Dr Fred Nasser (Interpreting Physician) on 27/06/2025 at 2:43 PM