

Royal North Shore Hospital



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Transthoracic Echocardiography (TTE) Study

Procedure date/time: 11/07/2025 11:09 AM Accession no: RNS-ECHO-25-4159

Patient name: SMITH Marilyn Ann Patient ID: 2360368 Date of birth: 13/05/1948 Age: 77 year(s) Height: 154 cm Gender: **Female** Weight: 79 kg BSA: 1.8 m²

Procedure Staff

Referring Physician: Dr Christopher Choong Sonographer: **Daniel Wong**

Interpreting Physician: Dr Fred Nasser

Proc. sub type: TTE procedure

Indications

Pre-TAVI.

MBS Code: 55126 - TTE (initial, only assign once/24

months)

Procedure Information

HR: Source: 77 bpm Outpatient Rhythm: Normal sinus rhythm Study location: Mobile Image quality: Adequate visualization Specialty: Cardiology

Procedure consent: Yes, verbal consent given

Comments: A few pauses

Measurements

Dimensions

Sinus of Valsalva: 3.2 cm LV Internal Dimension (end dias): 4.7 cm Sinus of Valsalva index: 2.08 cm/m LV Internal Dimension (end sys): 2.9 cm Septal Thickness: 0.9 cm RA area: 13.1 cm² Post LV Wall Thickness: 1 cm RA volume index: 15.8 ml/m² 24.6 cm² 39 ml/m² LA area: LA volume (BP) index:

LA volume (BP): 69.1 ml

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Aortic Valve Mitral Valve

AV Peak velocity: 3.9 m/sMV Peak E-wave: 0.986 m/s AV Peak gradient: MV Peak A-wave: 60.8 mmHg 1.04 m/s AV Mean gradient: 33 mmHg Lateral E' velocity: 0.078 m/sAV VTI: 0.049 m/s101 cm Septal E' velocity: 12.64 LVOT diameter: 2 cm E/E' lateral:

LVOT peak velocity: 1.2 m/s E/E' septal: 20
LVOT VTI: 29 cm E/E' average: 16.32

AVA (Continuity): 0.9 cm² Tricuspid Valve

 AVA Indexed:
 0.5 cm²/m²
 IVC Max:
 1.5 cm

 SV Indexed:
 51.4 ml/m²
 IVC Min:
 0.5 cm

Right Ventricle IVC Collapsibility index: 66.7 %

TAPSE: 2.4 cm

RV s' velocity: 0.128 m/s

RV basal diam: 3.6 cm

LV Ejection Fraction - Simpson

LVEDV (Biplane): 125 ml LVESV (Biplane): 50.1 ml LVEDVI (Biplane): 70.5 ml/m² LVESVI (Biplane): 28.3 ml/m²

EF (Biplane): 59.9 %

Ejection Fraction - 3D

Procedure Summary

Summary:

Moderate to severe mixed aortic disease. Normal LV size, wall thickness, and systolic function. Mild mitral regurgitation.

Findings (Rest)

<u>Left Ventricle:</u> Normal left ventricular chamber size and normal wall thickness. Normal left ventricular

systolic function. Ejection fraction estimated at 55-60 %.

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. Moderate calcification of the aortic cusps with moderately restricted

excursion. Moderate - severe aortic stenosis. Peak velocity 3.9 m/s, MG 33 mmHg, AVAi

0.5 cm²/m², DVI 0.29. Moderate aortic regurgitation PHT 398ms.

Aorta: Normal aortic root 3.2 cm and ascending aorta size 3.6 cm.

<u>Mitral Valve:</u> Moderate posterior mitral annular calcification with mildly thickened leaflets. Mild mitral

regurgitation. Transmitral MG 2 mmHg (HR 64 bpm).

<u>Tricuspid Valve:</u>
Normal tricuspid valve structure with trivial tricuspid regurgitation.

<u>Pulmonary Valve:</u>
Normal pulmonary valve structure with trivial pulmonary regurgitation.

Pericardium & Pleura: No evidence of pericardial effusion.

Septa & Shunts: No shunt detected by colour Doppler examination. No atrial septal aneurysm detected.

Additional Findings: Normal IVC size with normal inspiratory collapse (estimating RAP 3mmHg).

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Electronically signed by Dr Fred Nasser (Interpreting Physician) on 11/07/2025 at 4:45 PM