

# **Royal North Shore Hospital**



## 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**

Patient name:NEWLANDS Patricia BerylPatient ID:0496808Date of birth:8/11/1940Age:84 year(s)Height:172 cmGender:FemaleWeight:70 kgBSA:1.8 m²

**Procedure Staff** 

Interpreting Physician: Dr Christopher Choong Sonographer: Sheida Shahbazi Dashti

Proc. sub type: TTE procedure

**Indications** 

Dyspnea/SOB, Hypotension, Hypoxemia and Raised BNP. MBS Code: 55126 - TTE (initial, only assign once/24

months)

**Procedure Information** 

Rhythm:Atrial fibrillationSource:InpatientImage quality:Poor visualizationStudy location:Mobile

Specialty: Cardiology
Limitation reason: Supine

**Procedure consent:** Yes, verbal consent given

## **Measurements**

**Dimensions** 

Sinus of Valsalva: 3 cm LV Internal Dimension (end dias): 5.1 cm LV Internal Dimension (end sys): 4.1 cm Sinus of Valsalva index: 1.74 cm/m Septal Thickness: 1.2 cm RA area: 22.3 cm<sup>2</sup> Post LV Wall Thickness: 42.7 ml/m<sup>2</sup> 1.2 cm RA volume index: LA area: 38 cm<sup>2</sup> LA volume (BP) index: 58.1 ml/m<sup>2</sup>

LA volume (BP): 106 ml

Patient name: NEWLANDS Patricia Beryl MRN: 0496808 Date of study: 14/05/2025 8:41 AM

#### **Aortic Valve Mitral Valve**

AV Peak velocity: 3.6 m/sMV Peak E-wave: 1.42 m/s AV Peak gradient: 51.8 mmHg Lateral E' velocity: 0.064 m/s AV Mean gradient: 32 mmHg Septal E' velocity: 0.051 m/sAV VTI: 72.3 cm E/E' lateral: 22.19 LVOT diameter: 2 cm E/E' septal: 27.68 LVOT peak velocity:  $0.8 \, \text{m/s}$ 24.93 E/E' average: LVOT VTI: 15.4 cm **Tricuspid Valve** AVA (Continuity): 0.7 cm<sup>2</sup> TR velocity: 3.4 m/s AVA Indexed: 0.4 cm<sup>2</sup>/m<sup>2</sup> **IVC Max:** 2.7 cm

26.5 ml/m<sup>2</sup> SV Indexed: IVC Collapsibility index:

**Right Ventricle** 

RV s' velocity: 0.101 m/s RV basal diam: 4.8 cm RV mid diam: 3.8 cm

## IVC Min: 2.1 cm 22.2 %

## **Procedure Summary**

## **Summary:**

Atrial fibrillation. 107/min.

Normal left ventricular chamber size. Mild concentric hypertrophy. Infe3rolateral wall akinetic. Inferior wall and inferior septum severely hypokinetic. Rest of the ventricle moderately hypokinetic. Ejection fraction estimated at around 30%. Mildly dilated right ventricle. Mildly impaired systolic function.

Moderately dilated left atrium.

Mildly dilated right atrium.

Trileaflet aortic valve. Severely calcified aortic valve; severely reduced excursion on 2D. Low stroke volume index and gradients suggestive of low flow, low gradient, severe aortic stenosis. Severely reduced calculated aortic valve area. Based on the 2D appearance, pseudostenosis is very unlikely. Trivial aortic regurgitation.

Marked posterior mitral annular calcification involving the base of the posterior leaflet.

Moderately restricted posterior mitral leaflet opening. Severe mitral regurgitation.

Mean diastolic pressure gradient 5 mmHg. T nhalf 51 msec. Mild stenosis.

Normal tricuspid valve structure. Normal valvular opening. Mild tricuspid regurgitation. Estimated right ventricular systolic pressure 61 mmHg (assuming a right atrial pressure of 15 mmHg).

No pericardial effusion detected.

Findings (Rest)

Left Ventricle: Normal left ventricular chamber size. Mild concentric hypertrophy. Infe3rolateral wall

akinetic. Inferior wall and inferior septum severely hypokinetic. Rest of the ventricle

moderately hypokinetic. Ejection fraction estimated at around 30%.

Right Ventricle: Mildly dilated right ventricle. Mildly impaired systolic function.

<u>Left Atrium:</u> Moderately dilated left atrium.

<u>Right Atrium:</u> Mildly dilated right atrium.

Aortic Valve: Trileaflet aortic valve. Severely calcified aortic valve; severely reduced excursion on 2D.

Low stroke volume index and gradients suggestive of low flow, low gradient, severe aortic

stenosis. Severely reduced calculated aortic valve area. Trivial aortic regurgitation.

**Aorta:** Normal aortic root 3 cm and ascending aorta size 3.7 cm.

Marked posterior mitral annular calcification involving the base of the posterior leaflet.

Moderately restricted posterior mitral leaflet opening. Severe mitral regurgitation.

Mean diastolic pressure gradient 5 mmHg. T nhalf 51 msec. Mild stenosis.

<u>Tricuspid Valve:</u> Normal tricuspid valve structure. Normal valvular opening. Mild tricuspid regurgitation.

Estimated right ventricular systolic pressure 61 mmHg (assuming a right atrial pressure of

15 mmHg).

<u>Pulmonary Valve:</u> Normal pulmonary valve structure. Normal valvular opening. Trivial pulmonary

regurgitation.

<u>Pericardium & Pleura:</u> No pericardial effusion detected.

<u>Septa & Shunts:</u> No shunt detected by colour Doppler examination.

Additional Findings: Increased IVC size with reduced inspiratory collapse. No obvious thrombus detected but

cannot be excluded by transthoracic approach.

Electronically signed by Dr Christopher Choong (Interpreting Physician) on 15/05/2025 at 10:00 AM