

## TRANSTHORACIC ECHO REPORT

**Name :** MR Reiley PATERSON  
**Address :** 16/2 Andrew Street  
**Suburb :** EAST FREMANTLE WA 6158  
**DOB :** 08/06/1987  
**Gender :** Male

**Test Date :** 12/04/2022  
**Test Site :** Access Cardiology - Murdoch  
**Sonographer :** Stephanie Otten  
**Reported by:** A/Prof Hassan Kamalddin [441095BF]  
**Copy to :**  
**Referred by** Dr Joseph Murphy

| Mode 2D            |                      | Mitral Valve Doppler |          | Aortic Valve Doppler    |                 |
|--------------------|----------------------|----------------------|----------|-------------------------|-----------------|
| LV Diastole        | 47.31 mm             | E Velocity           | 0.77 m/s | AV Area                 | cm <sup>2</sup> |
| LV Systole         | 34.82 mm             | Deceleration Time    | 261 ms   | Peak Velocity           | 1.38 m/s        |
| LVOT Diam          | 21.91 mm             | A Velocity           | 0.48 m/s | Peak Gradient           | 7.61 mmHg       |
| IV Septum          | 11.1 mm              | A Duration           | ms       | Mean Gradient           | 4.17 mmHg       |
| Inferolateral Wall | 7.55 mm              |                      |          |                         |                 |
| Aortic Root        | 31.04 mm             | Right Ventricle      |          | Tricuspid Doppler       |                 |
| Left Atrium        | mm                   | RV S'                | 13 cm/s  | Peak TR Velocity        | m/s             |
| Ejection Fraction  | 58 %                 | RV TAPSE             | 24 mm    | PA Pressure             | mmHg            |
| 2D                 |                      | Mitral Annular DTI   |          | Pulmonary Valve Doppler |                 |
| LA Volumes         | 32 ml/m <sup>2</sup> | E:E' Ratio           | 5        | Max Velocity            | 1.1 m/s         |
| RA Volumes         | 21 ml/m <sup>2</sup> |                      |          | Max Gradient            | mmHg            |

**INDICATION:** Pre-stress echocardiogram. Ongoing L sided CP since 1st dose of Novavax vaccine  
168cm 75kg 1.85m<sup>2</sup> HR: 65 Rhythm: SR

**LEFT VENTRICLE:** Normal left ventricular size and wall thickness (LV mass 82g/m<sup>2</sup>, normal males <116g/m<sup>2</sup> and females <96g/m<sup>2</sup> using linear method). Normal global contraction (LVEF 58% using the Simpson's Biplane method). Normal early diastolic mitral annular velocities and filling pressures (E:E' 5).

**RIGHT VENTRICLE:** Normal right ventricular size and contraction. S' = 13cm/s. TAPSE is 2.4cm (N≥1.6cm). The basal diameter is 3.7cm.

**AORTIC VALVE:** Trileaflet aortic valve with normal leaflet excursion. No stenosis and no regurgitation. Normal aortic root and ascending aorta size.

**MITRAL VALVE:** Normal mitral leaflets with normal excursion. No regurgitation.

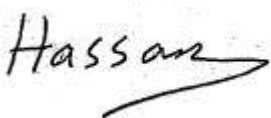
**TRICUSPID AND PULMONARY VALVES:** Normal tricuspid valve with trivial regurgitation. Normal pulmonary valve with trivial regurgitation. There is insufficient tricuspid regurgitation for estimation of pulmonary artery systolic pressures. Normal size IVC with normal collapse (>50%) on inspiration.

**ATRIA:** Normal left atrial size. Normal right atrial size. No evidence of patent foramen ovale by colour Doppler.

**PERICARDIUM:** No pericardial effusion.

### CONCLUSION:

1. Normal biventricular size and contraction (LVEF 58%).
2. No significant valvular abnormalities.
3. Normal size atria.
4. Insufficient tricuspid regurgitation for estimation of pulmonary artery systolic pressures.



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