Supplementary material

**S1**

Echocardiography revealed significant abnormalities primarily involving the right heart and pulmonary circulation.

The right atrium was severely dilated, with dimensions measuring 54 mm\*46 mm and an area of 23 cm². The right ventricle (RV) was markedly enlarged, evidenced by an RV basal diameter of 44 mm and a mid-cavity diameter of 34 mm. Further indicators of significant RV pressure and volume overload included flattening of the interventricular septum leading to a "D-shaped" left ventricle (LV) in systole (eccentricity index 1.43), dilation of the main pulmonary artery (31 mm), and foreshortened RV outflow tract acceleration time (77 ms). Assessment of RV function yielded mixed indices: systolic longitudinal motion measured by tricuspid annular plane systolic excursion (TAPSE=24 mm) and peak systolic tissue Doppler velocity at the lateral tricuspid annulus (s'=19 cm/s) were within normal limits, suggesting preserved longitudinal systolic function. However, the right ventricular index of myocardial performance (RIMP or Tei index) measured by tissue Doppler was significantly elevated at 0.89, indicating overall RV dysfunction. Pulmonary artery systolic pressure (PASP) of about 82 mmHg estimated by the tricuspid regurgitation pressure gradient method.

Left ventricular size was normal (37 mm), with preserved global systolic function (left ventricular ejection fraction, LVEF 60%) and normal wall thickness (interventricular septum 9 mm, posterior wall 11 mm). Left atrial size was normal (25 mm). Mild mitral regurgitation was present. Atrial arrangement (situs solitus) and atrioventricular and ventriculo-arterial connections were normal, with no evidence of significant shunts.

**S2**

Right heart catheterization showed: pulmonary arterial pressure (77/22/42mmHg), pulmonary arterial wedge pressure (8/1/3mmHg), pulmonary vascular resistance (4.88 Wood units), right atrial pressure (7/0/4mmHg), cardiac output (8.0 L/min), and cardiac index (4.57 L/min/m²).

**S3 295 Studies included in review**

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