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Contributions: The research was designed by KLN, SA, AM, AEA and GJK. Patients were enrolled and clinical data were collected by CS, DA, CPM and GJK. Right heart catheterizations were performed by SA and AM. Echocardiography data were analyzed by VS. Cardiac MR data were analyzed by KLN, SWL and AEA. Biostatistical analysis was conducted by KLN and XT. The manuscript was drafted by KLN, AEA and GJK, and all authors edited the final manuscript.