


The missing aortic prosthesis: an unusual case of pseudo-aortic regurgitation

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A 33-year-old woman with a history of multiple aortic valve replacements for infective endocarditis was referred to our institution for presumed vegetations of her aortic prosthesis and aortic root abscess. Transthoracic echocardiography performed shortly after her arrival showed a large pseudo-aneurysm and a mobile echodensity (arrow) at the aortic annulus with regurgitant flow filling the entire left ventricular outflow tract (LVOT) in diastole (Panel A and B, Supplementary data online, Movies S1 and S2). The continuous wave Doppler signal at the LVOT showed a short pressure half-time of 125 ms (Panel Q). These findings mimicked a destroyed aortic prosthesis with severe regurgitation. However, the low peak velocity (2.2 m/s) of the regurgitant jet and normal mitral valve opening demonstrated by M-mode imaging (Panel D) argued against severe aortic regurgitation. The colour jet was in fact regurgitation from the pseudo-aneurysm into the aortic root (Rochester, MN, USA).

Supplementary data are available at European Heart Journal — Cardiovascular Imaging online.

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