Reviewer’s report

Title: Perpendicular and turbulent flow after aortic valve replacement: Paravalvular or transvalvular leakage? – A case report

Version: 0 Date: 21 Oct 2019

Reviewer: Karolis Jonas

Reviewer's report:

First of all, I like to congratulate the authors with such an interesting case. The paper deals with a major problem in valvular surgery. The presented case illustrates the difficulty of differentiating between two causes of prosthetic regurgitation. Transvalvular leak, which in its nature may be beneficial, and provide a "wash down" currents, which may provide additional protection against prosthetic valve thrombosis. Paravalvular leak, on the other hand, is a malignant problem, which needs aggressive management, whether it would be transcatheter or surgical.

However, there are a lot of grammar, and sentence logic errors, which needs to be addressed. I recommend, that prior to publishing this article, the authors should submit the paper for an extensive English language editing.

Best wishes,
Karolis Jonas MD

Congenital Cardiac Surgeon
Vilnius, Lithuania

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