Reviewer’s report

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

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Reviewer: KENJI IINO

Reviewer's report:

The authors present a case of a patient with perpendicular turbulent flow raises the possibility of both TVL and PVL after AVR which originated from the sites near the stent post close to each other. The authors presented that TVL occurred between the stent post and sewing and PVL occurred between sewing ring and native annulus close to TVL in figures and videos.

I think the turbulent flows which were showed in figures and videos were same flow.

These findings indicates just only presence of PVL which requires reoperation without hesitation. If such a large transvalvular perpendicular flow existed between the stent post and sewing ring, the prosthesis must have had structural injury like perforation or tear in itself. But it was normal. It doesn't make sense.

There is nothing special unique.

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An article of limited interest

Quality of written English
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Acceptable
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