

Peer Review File

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Reviewer A

Comment 1:

This surgery is not new. However, the sinus of Valsalva aneurysm is rarely associated with aortic root dilatation. I want to add significance in that there must be no distortion of the leaflet and annulus while sinus of Valsalva aneurysm is repaired.

Reply 1:

We also agree that this is key to ensure good immediate and long-term outcomes.

Changes in text:

Line 173-174, the following sentence was added: "In fact, avoiding annulus and cusp distortion is key to ensure a competent repair."

Reviewer B

Comment 2:

At the beginning I would like to congratulate the authors very interesting clinical case. Valsalva sinus aneurysm is an extremely rare aortic root anomaly and therefore surgical treatment is not standardized and very individual variable from excision of the dilated sinus of Valsalva and implantation of the dacron patch through valve sparing aortic root replacement to the gold standard i.e. the Bentall operation. The authors present modification facilitating the reimplantation of the aortic valve. References are relevant, interesting discussion. The strength of the article is the photo and video documentation.

Reply 2:

Thank you very much for your comments.

Changes in text:

None

Reviewer C

Comment 3:

I congratulate the authors for their case report. I would stress the fact that the ASV did not modify the annulus diameter. This is paramount for valve competence and is the reason why the valve sparing was also easier to perform after closure of the ASV.

Reply 3:

This is indeed an important technical aspect.

Changes in text:

We have added the following: “and that the ASV did not directly involve the annulus” (Line 136), in the Case Presentation.