Reviewer's report

Title: Aortic Root Remodeling And External Aortic Annuloplasty To Treat Sinus Of Valsalva Aneurysm In A Patient With Complete Situs Inversus

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Reviewer: Mauro Iafrancesco

Reviewer's report:

Article assessment

Many thanks for asking me to review this paper entitled “Aortic root remodeling and external aortic annuloplasty to treat sinus of Valsalva aneurysm in a patient with complete situs inversus”.

The Authors describe the findings and the surgical repair of a sinus of Valsalva aneurysm in a patient with complete sinus inversus. The manuscript is well organized and concise.

The paper advances the knowledge of congenital cardiovascular pathology describing an association between two rare conditions, only once previously reported. The Authors also demonstrate the feasibility of a relatively new approach to valve sparing aortic root surgery (external aortic valve annuloplasty) in this setting.

Major Compulsory Revisions

None

Minor Essential Revisions

In the Case report section, the Authors stated: “Surgery was indicated because of the history of infection” but in the Discussion section they stated: “The aortic insufficiency, suspected infective endocarditis and the risk of aneurysm rupture led to an indication for surgery”. They also report that: “The transthoracic echocardiogram showed a right SVA of 34 mm prolapsing into the right ventricle, an ascending aorta measuring 43mm and grade-2 central aortic regurgitation through a tricuspid valve. The left ventricular ejection fraction was preserved”. As there were no sign of endocarditis at the echocardiogram, it is reasonable to assume that indication for surgery was given on anatomical basis only. Please clarify this point.

Discretionary Revisions

None

Level of interest: An article of importance in its field

Quality of written English: Acceptable
Declaration of competing interests:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future? No

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future? No

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript? Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript? No

4. Do you have any other financial competing interests? No

5. Do you have any non-financial competing interests in relation to this paper? No