Reviewer’s report

Title: Rare association of two cardiovascular malformations successfully corrected in a single surgery: A case report

Version: 0 Date: 14 Feb 2017

Reviewer: Jonathan Buber

Reviewer’s report:

Thank you very much for the opportunity to review the case report entitled "two rare cardiovascular malformations successfully corrected in a single surgery: A case report" by Mei et al.

The authors describe a case of a 5 year old female born with a rare combination of LSPV connecting to a vertical vein and an aortic coarctation. A brief description of the surgery, which was performed via lateral thoracotomy, is provided, as well as a brief literature review.

This is indeed a nice report, which I am sure will be appreciated by those who practice congenital heart surgery. My comments are the following:

1. The authors are asked to provide a little more data on the child's background; were these defects suspected during pregnancy? if not, when were they diagnosed, under what circumstances, and what was the reason for her admission to the hospital?

2. The authors are asked to provide with the pressure gradients both at the site of the coarctation repair and the pulmonary vein re-implantation at the LA at the 1 year echo study. If possible, please also provide the doppler images from that echo study as well in addition to image figure #3.

3. In the Discussion section, the authors are asked to provide a brief description of the embryologic causes for PAPVC and aortic coarctation formation, as these may be related

4. The authors are also asked to provide the estimated incidence of aortic coarctation in the general population, as they provide the corresponding figures for PAPVC. In fact, aortic coarctation is not an extremely rare congenital defect, and I would therefore consider revising the title of the report, in a manner that will underscore the fact that it is the combination of the two defects that is rare, rather than each of the defects by itself

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