

Peer Review File

Article information: <http://dx.doi.org/10.21037/tp-20-227>.

Reviewer A

the authors present a thorough review of DORV and various surgical solutions tailored to the wide anatomic variations. with minor exceptions of difficult wording, the review is complete, and worthy of publication. since the audience of the journal is mostly pediatricians without specific surgical knowledge of congenital heart defects, i believe images would speak a thousand words; namely, it would be useful to provide illustrations of the Rastelli, REV, and Bex-Nikaidoh operations.

on page 3, lines 94-97, the wording is confusing; you correctly express later in the manuscript that the crux of treating DORV relates to the relation of the great vessels to the VSD, amongst others, but this opening sentence can be more precise.

on page 4, lines 112-114, again the wording is confusing unless you are a surgeon who knows exactly what you're talking about.

thank you for this review on a difficult topic.

Reply

Thank you very much for your comments and constructive criticism.

The basic illustrations of the procedure of Rastelli, REV and Bex-Nikaidoh will be added to the revised addition, after permission for publication.

Page 3, lines 94-97: the full paragraph has been reworded to make it more comprehensible.

Page 4, lines 112-114: the full paragraph has been reworded to make it more comprehensible.

Reviewer B

I enjoyed very much reading this review on surgical treatment of double outlet right ventricle.

Supported by the 3D reconstructions, I find the review very useful and I learned a lot.

Nevertheless, I have a few comments which should be addressed.

1. Page 2, line 62: it should be “European ASSOCIATION of Cardiothoracic Surgery” and not

“society”.

2. Page 4, line 115: you describe the DORV but show a figure with a normal heart! I think this should be corrected, as the reader is expecting a figure with a DORV.

3. Describing the preoperative key evaluations is very useful, but I miss a point about coronary arteries. Especially for the Nikaidoh and REV procedure, you will have to check that prior surgery and I believe the readers of this review will benefit from a paragraph on coronary arteries and the limitations for surgery.

4. Page 6, line 184: maybe it would be helpful to mention that placing the patch will additionally close the “VSD”.

5. I found a couple of typing mistakes you might want to correct! Page 6, line 173; page 9, line 271; page 9, line 292.

6. There is a problem with the labelling of the figures, you have twice “figure 1”...please review!

Reply:

Thank you for your detailed comments and suggestions.

Page 2, line 62. “European Society” has been corrected with “European Association”.

Page 4, line 115. Figure 1 is the on purpose the representation of a “normal heart” because the text of that paragraph is clearly referring to the anatomy of the “normal heart”.

A full paragraph has been added to mention the possibility of anomalous origin and/or course of the main coronary arteries.

Page 6, line 184. The sentence has been modified including that the patch will simultaneously close the interventricular communication.

All typing mistakes have been corrected.