Reviewer’s report

Title: Prognostic Value of Dual-Source Computed Tomography (DSCT) Angiography Characteristics in Anomalous Coronary Artery from the Opposite Sinus (ACAOS) Patients: A Large-Scale Retrospective Study

Version: 0 Date: 13 Jan 2019

Reviewer: Hitesh Agrawal

Reviewer's report:

Please include all comments for the authors in this box rather than uploading your report as an attachment. Please only upload as attachments annotated versions of manuscripts, graphs, supporting materials or other aspects of your report which cannot be included in a text format.

Please overwrite this text when adding your comments to the authors.

I would like to congratulate the authors in completing this study. I have some major concerns

1. The authors briefly discuss about intramural segment of a coronary artery in the discussion. This is believed to be one of the most important risk factor for adverse events associated with anomalous origin of a coronary artery. Although intramural length can be confirmed at surgery or pathology, it can be assessed very well using two signs signs on CT angiograms. Firstly, the pericoronary fat sign and the cross-sectional shape of the lumen which has been described in the article below


It will be good to reanalyze the date to look for the presence or absence of intramurality and also to look at the correlation between length of intramurally with adverse events.

2. In the abstract and introduction, the authors have referred to anomalous origin of a coronary artery as a hemodynamically stable lesion. I would refrain from using such a term due to its association with sudden cardiac death
3. In the table 2 which provides the data on symptoms. Is it possible to break down symptoms into exertional and non-exertional to be more specific.

4. A major limitation of the outcomes is that the authors do not provide any further details on the cause of death for the patients. It will be good to know any co-morbidities present in these patients

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Yes

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

No

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

No

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

**Quality of written English**
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published
Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

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?

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?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. 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?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests' below

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal