Reviewer’s report

Title: Primary percutaneous coronary intervention during ST elevation myocardial infarction in prosthetic valve endocarditis: a case report

Version: 0 Date: 09 Oct 2017

Reviewer: Stefan Stortecky

Reviewer's report:

The present manuscript provides an interesting case report of an elderly patient with prosthetic heart valve endocarditis and STEMI secondary to aortic root abscess formation. The authors perfectly describe the clinical scenario and their therapeutic steps to treat this rare complication and provide illustrative images and videos to perfectly describe this case. I do have only few comments that might be able to improve this manuscript:

1. From Video B - one gets the impression that there is contrast already surrounding the left main (LM) tissue - was there an unselective LM injection? It somewhat looks like a substance defect in the left coronary cusp or aortic ulcer located in the LCC. This is supported by Video C, showing a communication and the abscess with contrast flow within the abscess cavity - could be of help to describe these videos in detail.

2. Was an autopsy performed? Could be of interest to describe the reason of death.

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

Unable to assess

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

Yes

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

Yes

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.

Not relevant to this manuscript
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

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