Reviewer’s report

Title: Influence of coronary territory on flow profiles of saphenous vein grafts

Version: 0 Date: 01 Jan 2018

Reviewer: Mate Petricevic

Reviewer's report:

Dear authors,

Thank you for submitting the article: "Influence of coronary territory on flow profiles of saphenous vein grafts" to the Journal of Cardiothoracic Surgery. I was pleased to receive it as a reviewer.

This is observational study in which authors evaluated influence of coronary territory on flow profiles of saphenous vein grafts. The four standard transit-time flowmetry parameters were evaluated. Although statistically significant differences were found, authors concluded that established differences in transit-time flowmetry parameters between left- and right-sided vein grafts were small and unlikely to be of clinical relevance.

1) Objectives of the paper and importance of the research question:

Authors clearly stated the aims of their paper and adequately answered the question.

2) Study group, methods and sample size:

The study enrolled patients undergoing CABG. Two surgeons performed all procedures, one did routinely off-pump whereas the other routinely performed on-pump CABG.

Authors provided "Consort diagram" showing exclusion criteria and study group breakdown which certainly helps readers to better understand the study flow.

However, the first sentence in the "Methods" section should describe the nature of the study. For instance. This is a comparative, non-interventional study in which data were collector prospectively (or retrospectively from computerized database).

3) Results are adequately presented.
Authors provided Boxplots depicting differences in mean graft flow (MGF), pulsatility index (PI), percentage diastolic filling (%BF) and percentage backward flow (%BF) between grafts going to the left and right coronary territory. These are the main findings and boxplots provide nice overview of the results.

4) Discussion is well researched. Authors compared their results to those available in the literature. Study limitations are addressed and conclusion is grounded on the data and results are interpreted in context of the clinical relevance.

Authors are to be congratulated for elegant study.

**Level of interest**
Please indicate how interesting you found the manuscript:

An article whose findings are important to those with closely related research interests

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

Acceptable

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