Reviewer’s report

Title: Commercial 4-Dimensional Echocardiography for Murine Heart Volumetric Evaluation after Myocardial Infarction

Version: 1 Date: 11 Feb 2020

Reviewer: Francesco Faita

Reviewer's report:

This is the second revision of the manuscript. The authors partially replied to the Major Issues. However, some Major Issues remain to be addressed.

Issue's number refers to first revision of the paper.

MAJOR ISSUES

Issue #1: Supplemental Table 2 should be provided with p-values for correlation coefficients. Furthermore, strain analysis should be extended to short axis views in order to obtain circumferential strain and a more accurate measurement of the radial strain (respect to the radial strain obtained from longitudinal long axis views).

Issue #2: I appreciated the appropriate citation of the paper by Grune et al. However, I suggest to add this point (lack of control and sham mice) as a minor limitation of the study (thanks to the work presented by Grune et al.).

Issue #5: Vevosonic should be changed in Visualsonics. Please correct.

Issue #10: I appreciated the check for normality of data. However, authors should add some details about the test (or algorithm) they used to check normality.

Issue #13: power of the study should be evaluated accurately and it should not be based on feeling of researchers. Furthermore, it seems that this important limitation was not still added to the potential caveats section.

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