Reviewer's report

Title: Strain-encoded cardiac magnetic resonance imaging: a new approach for fast estimation of left ventricular function

Version: 0 Date: 23 Nov 2018

Reviewer: Flavia Ballocca

Reviewer's report:

This is an interesting work on a recently introduced cardiac magnetic resonance imaging acquisition to assess left ventricular ejection fraction and mass.

Although the results are interesting, some more data should be added:

- the authors describe a significant reduction in time for the analysis compared to cine imaging; a proper comparison of time for acquisition and image analysis should be added

- as the LV ejection fraction and mass computations require a manual contouring of LV, inter- and intra-observer variability should be assessed

- 23 of the patients enrolled are described as "with known or suspected coronary artery disease": is that diagnosis confirmed? Is there any kind of segmental kinesis analysis?
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.

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.

I am able to assess the statistics

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

Acceptable
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