Reviewer's report

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

Version: 0 Date: 10 Sep 2018

Reviewer: Jae-Hyeong Park

Reviewer's report:

This is a short report showing the feasibility of strain-encoded (SENC) cardiac magnetic resonance imaging (CMR) in the measurement of left ventricular (LV) function and structure in a very short time.

Because SENC CMR technique is a well-known technique in the measurement of LV, it has been applied in the measurement of LV structure and function, detection of ischemia and also estimation of right ventricular function. The authors showed fast-SENC CMR technique in the measurement of LV systolic function and mass in about 105 seconds without limitation of breath.

Minor comment

1. The authors included 35 subjects in their study including 12 healthy volunteers. But, they did not mention about their baseline characteristics. It would be better to insert a baseline characteristics table in their manuscript.

2. Is there any difference between control subjects and patients with known or suspected coronary artery disease (CAD) in the measurement of LV volumes? (Patients with known CAD may have possibilities of taking medications which can reduce heart rate.)
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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