Reviewer’s report

Title: Left atrial reservoir strain combined with E/E' as a better single measure to predict elevated LV filling pressures in patients with coronary artery disease

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Reviewer: Chan Seok Park

Reviewer's report:

Lin et al. investigated the effectiveness of novel parameter, LASr/E/E'septal, for the evaluation of diastolic dysfunction in CAD patients.

The parameter was already investigated other researchers, but this article evaluated it in the heart failure with preserved ejection fraction (HFpEF) patients. Current guideline for the evaluation of left ventricular diastolic dysfunction and numerous investigations demonstrated the usefulness of E/E'septal. Also left atrial strain and strain rate (LAS/LASr) showed their effectiveness for the evaluation of diastolic function.

Above findings showed that this manuscript did not have uniqueness in terms of the diastolic parameters. But this manuscript has its own originality due to the different study population. And it could help this parameter apply to the various disease populations. The authors also performed invasive evaluation for the diastolic function. It made this article more valuable.

Minor comment

1. Intraclass correlation coefficient is a good parameter for inter- and intra-observer variations. But adding Bland-Altman analysis will help the readers understanding the manuscript.

2. Strain and strain rate for left atrium is not dedicated in the EchoPAC software. According to knowledge, this software uses speckle tracking method for left ventricular deformation and the users apply this method to the analysis of left atrium and other cardiac chambers. Otherwise, the values of strain and strain rate are vendor-dependent. Adding above findings to the study limitation will make this manuscript better.

3. Page 12, Line 249. There should the space as "above mentioned"

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

An article of importance in its field

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

Acceptable

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