Reviewer’s report

Title: The impact of different geometric assumption of mitral annulus on the assessment of mitral regurgitation volume by Doppler method

Version: 0 Date: 02 Dec 2019

Reviewer: In Cheol Kim

Reviewer's report:

This study evaluated mitral regurgitant volume by quantitative pulsed Doppler method using either circular or ellipsoid assumption of mitral annulus with real-time 3D TTE as a gold standard.

Well designed with interesting topic. However, several points need to be discussed.

1. Differences of correlation according to the etiology of MR (primary vs. secondary) is also an interesting point. It is recommended to stratify the results in primary and secondary MR.
2. Adding representative images of quantification of MR could improve understanding of the readers.
3. Minor lapses below
   - Title: mitral annular -&gt; mitral annulus
   - Page 4, line 11: three cardiac -&gt; three cardiac cycles

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:

Needs some language corrections before being published

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