Reviewer’s report

Title: Clinical Value of Myocardial Performance Index in Patients with Isolated Diastolic Dysfunction

Version: 0 Date: 09 Apr 2019

Reviewer: Eui-Young Choi

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This study tried to evaluate usefulness of conventional PW Doppler derived myocardial performance index (MPI) and TDI-derived MPI for detecting isolated diastolic dysfunction. According to the study results, the predictive power of both PW-MPI and TDI-MPI were modest and their correlations were modest at most. There are some questions to be answered.

First, the study purpose was not clear. Diastolic function used as gold standard in this study can be easily measured by conventional mitral inflow Doppler and tissue Doppler velocity, but why do we need complex measurement of MPI for detecting diastolic dysfunction.

Secondly, previous several studies already showed that PW-MPI and TDI-MPI were poorly correlated. In this point of view, what is the additional information in this study results?

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