Reviewer's report

Title: Left Ventricular Remodeling After Acute Myocardial Infarction. The Influence of Viability and Revascularization. An echocardiographic substudy of the VIAMI-trial.

Version: 2 Date: 19 April 2014

Reviewer: Luciano Agati

Reviewer's report:

This is a well written aimed to further investigate major determinants of LV remodeling after acute myocardial infarction. Results of this study are in agreement with the literature, and no new information may be derived from this paper. However the study population is particularly interesting since patients were enrolled in the VIAMI trial between 2001 and 2006 when primary PCI was not mandatory. So looking at the natural history of STEMI patients not undergoing to primary PCI is interesting. In this subset of patients the results of this study further confirm the importance to revascularize viable patients to obtain an ejection fraction improvement at follow-up.

Major Comments:
Even though in the title the authors underline the influence of viability and revascularization on LV remodeling, in the text they organize the discussion looking at the determinants of LV ejection fraction improvement at follow-up. Looking at the results a significant increase in LVEDV may be observed at follow-up in group 2 and 3 (+20% and +21% respectively). Why to do not use these data for logistic regression analysis?

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
I have no competing interests'below

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