Reviewer’s report

Title: Attempt to Discriminate The Single Powerful Ultrasound Quantitative Parameter for Predicting Significant Coronary Stenosis Failed

Version: 1 Date: 2 April 2012

Reviewer: Rosa Sicari

Reviewer’s report:

This is an interesting study showing that quantitative methods for the assessment of stress echocardiography fail to work in the routine clinical practice when compared to conventional wall motion analysis. There are several issues that authors should address:

1. Change title which is unclear and somewhat misleading: a possible suggestion would Quantitative vs. visual stress echocardiography: comparison of different parameters.
2. The patient population under investigation should be better detailed: indications to stress echocardiography; reasons to undergo stress echo; symptoms etc.
3. The abstract conclusions should be modified: It is misleading to state that a model incorporating many parameters works better than visual assessment.
4. In line with the previous comment, it is necessary to describe in detail how the model with more parameters was built and how the different cut-off were chosen. The results section should be modified and only the single parameters vs. visual assessment should be given.
5. Sensitivity and specificity should be reported with the relative 96% CI.
6. Please state clearly when coronary angiography was performed in this set of patients relative to stress echocardiography
7. There are many studies showing that these methods are not better than visual assessment. Please cite them
8. Authors should also cite both EAE and ASE documents that do not recommend the use of these tools for stress echo. Moreover, all these technologies are under scrutiny (see Mor-Avi et al. 2011) since there is no clinical conditions in which these technologies are recommended. Please discuss.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.
Declaration of competing interests:

'I declare that I have no competing interests'