Reviewer's report

Title: Evaluating the Effectiveness of Rosuvastatin in Preventing the Progression of Diastolic Dysfunction in Aortic Stenosis: A Substudy of the Aortic Stenosis Progression Observation Measuring Effects of Rosuvastatin (ASTRONOMER) Study

Version: 1 Date: 12 December 2010

Reviewer: Rosa Sicari

Reviewer's report:

This is an interesting study addressing an important clinical issue such as the concomitant diastolic dysfunction in patients with increasing grades of aortic stenosis. The methodology is sound. There are a few issues that authors should address:

Please state clearly in the methods section of the manuscript that this is a subanalysis of a larger study addressing the effect of statins on aortic stenosis progression.

For the evaluation of diastolic dysfunction authors used only e/e'. Please discuss and check the EAE/ASE guidelines on this matter.

Please specify, when the patients were censored at follow-up if undergoing surgery.

Please expand the experimental and pathophysiologic premises on why statins may induce regression of diastolic dysfunction.

In line with the work of Lancellotti can they provide outcome analysis?

Due to the nature of the journal authors should upload images.

Authors may be interested in citing the following manuscript.

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'