Reviewer's report

Title: The Scandinavian Multicenter Hemodynamic Evaluation of the SJM Regent Aortic Valve

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Reviewer: Henrik Ahn

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The longterm hemodynamic characteristics of different aortic prostheses during rest and especially exercise are important information. Use of DSE is nothing new but this study includes a big number of patients undergoing stress test 1 year after surgery. This is the strength of the study and well worth publication. In a similar study design Minardi et al. (Ref 12 in the manuscript) presented data from 19 patients with 17 mm SJR prostheses.

The aim of the study is clearly defined but after finishing the study the authors also comment on the safety and versatility of the DSE test. These comments should be written secondly to the conclusion about performance of the prostheses.

The text in Abstract "Pledgets were used..... on the surgeons choice" should be moved to Methods.

The cause of the two early deaths and three late deaths should be reported in either Abstract or perhaps better Materials. Were they related to surgery or were there any valve related complications?

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I have no conflicts of interest so the answer to all questions are no.