Reviewer's report

Title: Predictors of In-hospital Mortality after Mitral Valve Surgery for Post-Myocardial Infarction Papillary Muscle Rupture

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Reviewer: thomas de kroon

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Discretionary revisions

1. The fact that complete PMR is a strong independent risk factor of mortality can hardly aid in surgical decision making, because of the fact that in only 24 patients (50%) the diagnosis of PMR was confirmed preoperatively.

2. The authors state that the power of the logistic Euroscore has declined and give some probably reasons for this decline. Maybe they could give a reference to a paper with proof of this statement.

3. The authors state that the Logistic Euroscore (optimal cutoff > 40%); Euroscore II (optimal cutoff > 25%), complete papillary muscle (PMR) rupture en intra-operative IABP are strong independent predictors of mortality in patients undergoing surgery for post–MI PMR and that these predictors may aid in surgical decision making.

Maybe the authors can respond to the question how it helps them in their practise. Is there a Euroscore cutoff for rejecting the patient for surgery?

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I declare that I have no competing interest.