Reviewer's report

Title: In-Hospital complications after invasive strategy for the management of Non STEMI: Women fare as well as men.

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Reviewer: Ioannis Toumpoulis

Reviewer's report:

Overall this is a well-written manuscript. My major concerns on some statistical issues are as follows:

1. In this study the authors analyzed 133 women and 346 men. These numbers are significantly smaller as compared to other previous studies including thousands of patients. In other words, what is the power of the study to detect the various outcomes between the two groups?

2. In order to increase the number of events the authors have decided to include all complications together. In this study, however, there is no long-term or midterm follow-up. This outcome would have been even more important and it is obvious that by adding risk-adjusted long-term follow-up this would increase further the power of the study. It is also very important to assess the effect of a treatment especially in this case where PCI affects long-term survival and adverse cardiovascular outcomes in the midterm and long-term period.

3. The authors used logistic regression analysis in order to provide risk-adjusted comparisons between the two groups. However, it is not clear whether they used a multivariate logistic regression analysis. In addition, they don't provide any data on the discriminatory ability and the calibration of their logistic regression models. A ROC curve and a Hosmer-Lemeshow test are good methods in order to understand the discriminatory ability and the calibration of the logistic model respectively.

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

Quality of written English: Needs some language corrections before being published

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

Declaration of competing interests:

I declare that I have no competing interests.