Reviewer’s report

Title: Effect of intracoronary agents on the no-reflow phenomenon during primary percutaneous coronary intervention in patients with ST-elevation myocardial infarction: a network meta-analysis

Version: 0 Date: 18 Apr 2017

Reviewer: Francesco Fioravanti

Reviewer's report:

This article describes a well-done metanalysis focused on the prevention of the no-reflow phenomenon during PCI in STEMI patients. The authors compared seven pharmacological agents, concluding that Anisodamine would be the best choice. They performed a rigorous papers' selection, including only RCTs, but the overall quality of these papers is not always high. Some revisions is needed.

1) 4609 patients in 41 RCTs were included, but it is unclear how many patients assumed each agent (and which dosage): a summary table is recommended.

2) Moreover, every subanalysis is based on a different number of RCTs (TFG<3 ->37 RCTs, STR ->21 RCTs, LVEF ->27 RCTs, MACEs ->29 RCTs, AEs ->17 RCTs): how many patients for each agent in each subanalysis? Clarification is needed.

3) It is unclear how the authors adjusted for the wide range of follow-up. Must be considered that Adenosine-related RCTs had longer follow-ups (up to 12 months) than other RCTs. On the other hand, MACEs could be underestimated, in some RCTs, by a too short follow-up. An explanation on mean follow-up for every agent is needed.

4) The text should be revised by an English mother tongue speaker experienced in medical writing

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes
Are the conclusions drawn adequately supported by the data shown?
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Yes

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I recommend additional statistical review

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