Reviewer’s report

Title: Intramuscular injection, intravenous infusion, and intravenous bolus of oxytocin in the third stage of labor for prevention of postpartum hemorrhage: a three-arm randomized control trial

Version: 1 Date: 12 Oct 2018

Reviewer: Ioannis Gallos

Reviewer's report:

This is a high quality trial answering a key question on the prevention of PPH. It will be a great addition to the literature and with a potential to influence existing recommendations. Have no major points to make.

Some minor points to consider

1. Have noted a small imbalance in the baseline characteristics - was there any minimisation variables included in the randomisation algorithm? If not please describe the randomisation method as "simple randomisation". This works in favour of IM route so it does not explain the differences in effects. However, the authors could consider reporting also an adjusted analysis.

2. Could the authors please provide details about the IV oxytocin infusion and report over how many minutes or hours was infused? Even as an estimate with a reasonable range. For the injection they state this was injected over one minute.

3. Following the publication of the core outcome set for prevention of PPH, the authors can consider reporting additional outcomes such as
   a. Severe maternal morbidity: Intensive care admissions
   b. Severe maternal morbidity: Shock.
   c. Death

4. In terms of side effects I can see the authors are reporting the mean blood pressures with the three arms. Perhaps they could consider reporting hypotension also as a binary outcome. The same perhaps for tachycardia if available. Oxytocin does not cause many side effects but were there any other collected? If so please report all in a separate table..

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?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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