**Reviewer’s report**

**Title:** Efficacy and safety of prophylactic use of ketamine for prevention of postanesthetic shivering: A systematic review and meta analysis

**Version:** 0  **Date:** 16 Jul 2019

**Reviewer:** Mohammad Reza Rasouli

**Reviewer's report:**

An interesting topic and meta-analysis but there are some issues with the study design.

*One trial on pediatric patients were included that I recommend to remove that study from the meta-analysis and repeat analysis.*

*Please clarify the search strategy.*

*Authors mentioned that search study was not limited for language. I was wondering if any non English article was included in the study.*

*It was stated that if other antishivering medications were used they excluded the trial. I was wondering which medications were considered in their list and how authors interpreted data if other perioperative medications were not reported (does not necessarily mean those medications were not administered).*

*Assessment of risk of bias should be described in the method section rather than results (please report the method used for assessment of risk of bias in the method and report your finding in the results).*

*Majority of the discussion section is repeating study findings. I think discussion needs to be reorganized to discuss more on the possible mechanism of antishivering effect of Ketamine, other available options to prevent postoperative shivering and limitations of the study.*

*Page 11, line 15 and 19: In one line Ketamine was described as non competitive NMDA antagonist and in the other one was described as competitive antagonist. Please correct it.*

* Page 13, line 52: It is not clear what authors mean by "the evidence level for our outcomes is low or very low".*

* Result section is long and some data reported in figures and tables has also been described in the text. Please just report important findings in the text and refer to figures and tables for the rest of study findings.*
*Please cite appropriate references for the last paragraph of the introduction.

*Please provide higher quality figures and reformat references based on the journal's format.

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

No

**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 am able to assess the statistics

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

Needs some language corrections before being published

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