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: 07 Jul 2019

Reviewer: Sarah Saxena

Reviewer's report:

Dear authors,

Thank you for sending this manuscript.

This is an interesting review of the literature regarding the use of ketamine for the prevention of postoperative shivering.

The paper needs to be rewritten in order to improve the English and make it more easier to read.

Please change the following:

Abstract: results:

'Ketamine did reduced' to 'ketamine did reduce'

'Usage of ketamine... when compared with placebo.' to 'when compared to placebo'.

'The occurrence of side effects...but with a relatively higher incidence of...' to 'but was associated with a relatively higher...'

Key points summary:

Please rewrite the question into a more simple phrase.
Background:

Please change the following:

'which may cause aggravated pain' to 'complication of anesthesia, perhaps even aggravating pain'.
'Moreover,... which increases...' to 'Moreover,... which increase...'

Results:

Please change the following:

'In 15 trials participants were adults over 18 years...' to 'In 15 trials... adults, ...'
In 13 trials... compared against' to 'In 13 trials ... compared to...'
Please change 'compared with' to 'compared to'...

Please change 'in 4 trials included patients receiving' to in 4 trials... having undergone orthopedic surgery'

Secondary outcomes
Ketamine vs placebo:
Please change the following:
'The incidence of hallucination was.. in patients received... to 'in patients who received...'
'siginificant' to significant'
Discussion:

Please do not call postoperative shivering an emotion.

The discussion does not mention the 'dissociative state' that ketamine causes.

Please change 'ketmaine' to 'ketamine'.

Please explain with what you mean with idealising the beneficial aspects of ketamine...

Please rewrite/ reorder the part about forced air heating... Was the comparison of ketamine to non-pharmacological treatments excluded (since a study comparing ketamine to forced air warming was removed...?)

If non-pharmacological treatments were excluded these should not be mentioned at this part of the discussion, but this should be clearly stated in the introduction/ methods... should be mentioned in the introduction.

I don't understand why it is included in this part of the discussion... If the ASA recommends forced-air warming, is ketamine added when this does not work? Or is the question you ask in this study whether ketamine can be used instead of forced-air warming... Please clarify...

Please rewrite 'but we believed..'

Conclusion

Please rewrite the conclusion.

Please register the study on Prospero.

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.

Unable to assess
Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

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.

Not relevant to this manuscript

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

Needs some language corrections before being published

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