Reviewer’s report

Title: Preoperative medication use and postoperative delirium: A systematic review

Version: 1 Date: 12 Nov 2017

Reviewer: Alessandra Marengoni

Reviewer's report:

The authors carried out a systematic review of the literature on the association between preoperative medication use and postoperative delirium.

The review was carried out according to the PRISMA guidelines and the Newcastle-Ottawa quality assessment scale was employed to assess the quality of the included studies.

This is a well-written systematic review of the literature. The topic is of great interest in geriatrics. The discussion is really well-done and describes also the limitations of the papers included in the review.

I have some minor points:

- Background is too long. I suggest to take away from line 71 to line 80 cause it is not the aim of the review to analyse outcomes of delirium

- The part on study quality is also too detailed , please summarize it

- Avoid using both the terms, 'psychotropic and psychoactive' medications but use only one through the paper. I suggest to show which types of psychoactive medications were included in different studies

- Table 1, please add a column with % of females or males

- Table 2 and 3, please add a column with the covariates of each model

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.

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:

Acceptable

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