**Reviewer's report**

**Title:** Premedication with intranasal dexmedetomidine decreases barbiturate requirement in pediatric patients sedated for magnetic resonance imaging: a retrospective study

**Version:** 1  **Date:** 22 Nov 2018

**Reviewer:** Hassan Ahmed

**Reviewer's report:**

I reviewed with interest this article, comments are following:

1- The effects of intra-nasal dexmedetomidine in paediatric population either as a solo agent or in combination with other sedatives had been extensively reported before.

2- Methods: I miss any sedation scale used either before, during or after the procedure

3- Methods: dexmedetomidine frequently cause hypotension, I miss any blood pressure assessment during this trial

4- Methods: the combination between dexmedetomidine as a premedication and barbiturates will affect the post procedure recovery time, there is no assessment of post procedure sleep time

5- Methods: there is no proper assessment of apnoea that may occur in the dex group.

6- Methods: what is the maximum dose of dexmedetomidine used?

**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:

Acceptable

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