Reviewer’s report

**Title:** Antinociceptive effects of magnesium sulfate for monitored anesthesia care during hysteroscopy: a randomized controlled study

**Version:** 2  **Date:** 14 Aug 2020

**Reviewer's report:**

**Recommendations**

This prospective double-blind randomized study evaluated the benefit of administering magnesium sulfate before anesthesia on perioperioperative pain of hysteroscopys. Benefits: significant reduction on intraoperative opioids and pain scores. Prospective studies in multimodal analgesia are therefore still necessary, and the proposed study fits into this objective.

**Strengths of the study:**

- Randomized double blind prospective study
- CONSORT followed
- Registered in a public registry
- Primary endpoint clinically relevant
- Text overall well written
- Most of all suggestions were fulfilled

**Main remark:**

The authors should consider an opinion for a consultant in statistics because in my opinion the analysis for "Need for rescue analgesics" is wrong.

Correct analysis: Table 2, Need for rescue analgesics Group C: 14 (38%) vs Group M: 6 (21%), RR 0.44 [0.19 to 1.01], p=0.0529, NNT 4.349.

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Is the study design appropriate to answer the research question (including the use of appropriate controls), and are the conclusions supported by the evidence presented?
Yes

Are the methods sufficiently described to allow the study to be repeated?
Yes

Is the use of statistics and treatment of uncertainties appropriate?
No

Is the presentation of the work clear?
Yes

Are the images in this manuscript (including electrophoretic gels and blots) free from apparent manipulation?
Yes