

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 87452

Title: Effect of anesthesia induction with butorphanol on postoperative nausea and vomiting: A randomized controlled trial

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00526025

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2023-08-10

Reviewer chosen by: Geng-Long Liu (Quit 2023)

Reviewer accepted review: 2023-08-22 00:44

Reviewer performed review: 2023-08-25 08:25

Review time: 3 Days and 7 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The manuscript is important; however, it needs amendments. Abstract: Methods: I would recommend that “prospective, double-blind” be inserted before the study. Results: I would recommend you mention postoperative nausea/vomiting first followed by doses of anesthetics and hemodynamics, because your primary focus was postoperative nausea/vomiting. Conclusion: I would recommend you state your conclusion in the past tense. This study reveal[ed] that butorphanol [was]...and improv[ed] the comfort of patients... Core Tip: I would recommend the expression “and it was found that” be deleted. I would recommend the sentence of “The BCS... in the PACU.” be changed to “The patients in the butorphanol group were more comfortable than those in the sufentanil group in the PACU.” Introduction: As your study was clinical one, you should focus more on the clinical studies of butorphanol and sufentanil on postoperative nausea/vomiting, rather than basic mechanisms of nausea/vomiting and analgesia via opioid receptors. Most of your introduction should be moved to discussion section. The sentence “In addition, butorphanol... endotracheal intubation.[11] be deleted or moved to discussion section. I would

recommend "Material and Methods" be changed to "[Patients] and Methods." Page 6, paragraph 1: "Anesthesia induction was...analgesic titer ratio." should be moved to "Anesthesia Method" section. Page 6, paragraph 2: Your manuscript says that "Based on previous studies and preliminary experiments [12, 13], the sample size...PONV." I presume this would indicate you did preliminary study of butorphanol on postoperative nausea/vomiting. However, the references did not include your studies. If you did preliminary experiments, you should cite your manuscript(s). I think the manuscript by Fujii and Itakura (Ref. 13) has been retracted. I do not think you can cite Ref 13. Page 7: You measured blood pressure by non-invasive method. You also measured arterial blood pressure with radial artery cannulation and you cannulated the internal jugular vein. Were these your routine monitoring methods even for patients who underwent just laparoscopic gastrointestinal surgery? As you compared the doses of propofol and remifentanyl between the groups, you need to state how you titrated the doses of propofol and remifentanyl during the surgery. Results: You only stated that the patients received laparoscopic gastrointestinal surgery. I think gastrointestinal surgery includes various procedures. More detailed statements of gastrointestinal surgery would be preferable. Continuous variables other than operation time should be rounded off to one decimal place. Table 3 What is "windpipe?" Medical term of "windpipe" is preferable. Page 9, paragraph 2: I think the incidences of nausea/vomiting are most important in your study. More detailed statement is essential. It would be more understandable if you would include the actual doses of propofol and remifentanyl, incidences of agitation, BCS scores, and effective compressions of PCIA in table. Discussion: I would recommend that you concisely summarize your most important findings in the first paragraph. As your study was clinical one, I would recommend you discuss more on clinical effects of butorphanol and sufentanil on postoperative nausea/vomiting than basic discussions on butorphanol and sufentanil.



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

That would improve the clinical values of your excellent study. Conclusion: I think conclusions should be stated in the past tense, not in the present tense. END

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer chosen by: Jing-Jie Wang

Reviewer accepted review: 2023-10-20 08:20

Reviewer performed review: 2023-10-20 12:00

Review time: 3 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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<https://www.wjgnet.com>

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I think that the has been amended satisfactorily.