

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 78339

Title: Effects of Different PEEP and VT Controls on Lung Protection and Inflammatory Factors during Surgical Anesthesia

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06129103

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Specialist

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2022-06-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-27 10:27

Reviewer performed review: 2022-07-10 23:47

Review time: 13 Days and 13 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Peer-reviewer
statements**Peer-Review: ☒ Anonymous ☐ OnymousConflicts-of-Interest: ☐ Yes ☒ No**SPECIFIC COMMENTS TO AUTHORS**

The use of low volume tidal combined with a certain level of positive end expiratory pressure and allowing PaCO₂ to rise to a certain extent as a lung protection strategy, which can improve lung compliance and oxygenation function. And during mechanical ventilation, the alveolar epithelium was stimulated by mechanical traction and released a variety of inflammatory cytokines which promoted the activation of macrophages and neutrophils. Positive end expiratory pressure has been widely used in the treatment of acute lung injury and has achieved good clinical effects. In this study, the clinical effects of different ventilation modes were explored from a new perspective through comparisons among different groups to provide a theoretical and experimental basis for the safe implementation of mechanical ventilation in elderly patients. The results of the study are very interesting, and well discussed. A minor revision is required. Comments:

1. The background in the abstract is too long, please short it.
2. Please take attention about the abbreviations. When an abbreviation first appears in the text, please spelling it.
3. Some minor language polishing should be revised.

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Peer-review model: Single blind

Reviewer's code: 06129070

Position: Peer Reviewer

Academic degree: MD

Professional title: Research Associate

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

Manuscript submission date: 2022-06-22

Reviewer chosen by: AI Technique

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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
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SPECIFIC COMMENTS TO AUTHORS

This is an interesting study of effects of different positive end expiratory pressures and tidal volumes on respiratory function, the degree of the inflammatory response and hemodynamic indexes in patients undergoing surgery under general anesthesia. The study is well designed and the results are interesting. The limit of the study should be discussed. No other comments. Thank you.