

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 87574

Title: Comparative Impact of Propofol and Sevoflurane Anesthesia on Cognitive Function and Emotional State in Gastric Cancer Patients Undergoing Radical Resection

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03025524

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: Thailand

Author's Country/Territory: China

Manuscript submission date: 2023-09-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-10-04 06:57

Reviewer performed review: 2023-10-12 14:33

Review time: 8 Days and 7 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The study is aimed to compare the effects of propofol and sevoflurane anesthesia on postoperative cognitive function, anxiety, depression, and organ function in patients undergoing radical resection of gastric cancer. The title is “Comparative Impact of Propofol and Sevoflurane Anesthesia on Cognitive Function and Emotional State in Gastric Cancer Patients Undergoing Radical Resection”. 1. The sample size of the study is relatively small. 2. Several factors influence the outcome of the study. Please discuss these. 3. Please add more details of pharmacophysiology of propofol and sevoflurane on the cognitive function and the emotional state. 4. Please review the literature and add more details in the discussion section 5. Please also add the limitations of the study. 6. What is the new knowledge of the study? 7. Please recommend to the readers “How to apply this knowledge?”.

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 87574

Title: Comparative Impact of Propofol and Sevoflurane Anesthesia on Cognitive Function and Emotional State in Gastric Cancer Patients Undergoing Radical Resection

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05061806

Position: Peer Reviewer

Academic degree: PhD

Professional title: Full Professor

Reviewer's Country/Territory: Iran

Author's Country/Territory: China

Manuscript submission date: 2023-09-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-10-07 07:38

Reviewer performed review: 2023-10-18 09:12

Review time: 11 Days and 1 Hour

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 checked="" type="checkbox"/> Grade B: Good <input 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 checked="" type="checkbox"/> Grade B: Good <input 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 checked="" type="checkbox"/> Grade B: Good <input 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 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: <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

With pleasure, I reviewed the article entitled: "Comparative Impact of Propofol and Sevoflurane Anesthesia on Cognitive Function and Emotional State in Gastric Cancer Patients Undergoing Radical Resection" by the authors Aohan Li et al. The authors present a retrospective analysis in which the effects of propofol and sevoflurane anesthesia on postoperative cognitive function, anxiety, depression, and organ function in patients undergoing radical resection of gastric cancer are compared. This is an interesting topic and analysis will certainly be explored further in the future. The manuscript is well-written and the authors need to be acknowledged for all the work. The limitations including a small sample size and only a single center for contouring. Furthermore, the long-term outcomes were not assessed; thus, it is unclear whether the obtained results are associated with lasting effects. Further studies need to include more participants.

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 87574

Title: Comparative Impact of Propofol and Sevoflurane Anesthesia on Cognitive Function and Emotional State in Gastric Cancer Patients Undergoing Radical Resection

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07639509

Position: Peer Reviewer

Academic degree: PhD

Professional title: Doctor, Research Assistant

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

Manuscript submission date: 2023-09-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-10-08 08:49

Reviewer performed review: 2023-10-18 09:32

Review time: 10 Days

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 checked="" type="checkbox"/> Grade B: Good <input 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 checked="" type="checkbox"/> Grade B: Good <input 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 checked="" type="checkbox"/> Grade B: Good <input 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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 study presents high quality and deals with important clinical issue, such type of study is needed. The aim of this retrospective study was to thoroughly scrutinize and contrast the anesthetic impacts of propofol and sevoflurane on patients who are undergoing radical resection of gastric cancer, specifically in relation to cognitive function and negative emotion. By collecting and analyzing comprehensive data, authors shed light on optimizing anesthesia selection and management strategies to preserve cognitive function and promote positive emotional outcomes in this specific patient population. This is a well-designed study and the manuscript is well written. This study is a retrospective study with some confounding factors, but it has an important guiding significance for clinical treatment. Relevant prospective research should be carried out. The writing of this paper is fluent and in line with the standard. I recommend to accept the manuscript after minor revision. I have only few small remarks that authors should address properly. - in discussion section please provide study strong points and study limitation section - please correct typos. The paper can be accepted only after addressing all the issues and another subsequent review. I recommend to

accept the manuscript after minor revision.