

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 89035

Title: Brain protective effect of dexmedetomidine vs propofol for sedation during prolonged mechanical ventilation in non-brain injured patients

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03028174

Position: Editor-in-Chief

Academic degree: MD

Professional title: Associate Professor, Staff Physician

Reviewer's Country/Territory: Thailand

Author's Country/Territory: China

Manuscript submission date: 2023-10-18

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-11-01 03:00

Reviewer performed review: 2023-11-20 01:07

Review time: 18 Days and 22 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Language quality	☐ Grade A: Priority publishing ☒ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☐ Accept (General priority) ☒ Minor revision ☐ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No

Peer-reviewer statements	Peer-Review: [☒] Anonymous [☐] Onymous
	Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

The study is aimed to compare the neuroprotective effects of dexmedetomidine and propofol for sedation during prolonged mechanical ventilation in patients without brain injury. The title is "Brain protective effect of dexmedetomidine vs propofol for sedation during prolonged mechanical ventilation in non-brain injured patients". 1. Why did the authors use serum S100- β and neuron-specific enolase (NSE) levels for the primary outcomes? Please add more details. 2. Several factors influence the outcome of the study. Please discuss these. 3. Please add more details of the pharmacology of dexmedetomidine for the neuroprotective effects. 4. Please review the literature and add more details in the discussion section. 5. What is the new knowledge of the study? 6. Please recommend to the readers "How to apply this knowledge?".