

PEER-REVIEW REPORT

Name of journal: *World Journal of Critical Care Medicine*

Manuscript NO: 82787

Title: Sleep during and following critical illness: A Narrative Review

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05352593

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Colombia

Author's Country/Territory: Australia

Manuscript submission date: 2022-12-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-12-29 01:51

Reviewer performed review: 2023-01-09 11:51

Review time: 11 Days and 10 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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

Thank you for the opportunity to read this manuscript. This manuscript summarized an important issue in critical care. The article is too long, however, is well-written. The authors described the epidemiology, classification, physiopathology, outcomes, and management of sleep disturbance in critical care patients. I have some minor comments:

- Please include a figure that summarizes the periods of sleep.
- Please, describe the criteria developed by Watson et al in a table.
- Usually, this type of article started with an epidemiology section. Please, your section "Epidemiology of Sleep Disturbance during and after critical Illness" could be described first, before "Overview of Normal Sleep".
- Please, describe in a table the two systems for scoring polysomnographic sleep data. This allows the reader a better understanding.
- Please, include a table that stated the RCSQ score.
- I believe that the causes of sleep disturbance could be described after epidemiology, this is a logical order.
- What are zeitgebers? Page 2.
- This statement "Sleep is a pro-inflammatory state characterized by immune cell proliferation and production of pro-inflammatory cytokines" must be corrected.
- Please, since it is a complex subject. The authors must describe in the



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introduction how they will present the article and how it was divided. Thanks

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Reviewer's code: 05584775

Position: Editorial Board

Academic degree: MBBS, MD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Australia

Manuscript submission date: 2022-12-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-13 22:09

Reviewer performed review: 2023-01-15 06:17

Review time: 1 Day and 8 Hours

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

Scientific significance of the conclusion in this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input 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

This is a very well conducted review of sleep disturbances in critically ill patients.

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Reviewer's code: 06473527

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Australia

Author's Country/Territory: Australia

Manuscript submission date: 2022-12-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-10 05:25

Reviewer performed review: 2023-01-22 19:20

Review time: 12 Days and 13 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

World Journal of Critical Care Medicine Manuscript: 82787-35160 Summary: Thank you for the opportunity to review this manuscript. The investigators of this manuscript have comprehensively reviewed the physiology of sleep, its disruption and management strategies in patients admitted to Intensive Care Unit (ICU). The extensive review covers all aspects of sleep and its disorders in this cohort of patients. It's a very important topic to be addressed and the narrative review offers a comprehensive presentation of current literature on this. The manuscript layout is well structured; however, it does require editing for removal of double spaces and some punctuation marks. Abstract: 1. Its comprehensive and clearly states the contents of the manuscript 2. The emphasis on longitudinal effects of critical illness on sleep is more in abstract with manuscript describing the effects of sleep deprivation on critical illness. Both these inter-related effects can thus be emphasised in the abstract considering it's a stand-alone document. 3. It is suggested that a sentence pertaining to the conclusion of the review can be included in the abstract. Manuscript: 1. The manuscript is very well written covering all aspects pertaining to the topic, however, due to its extensive nature, its suggested that some



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topics can be comprehensively covered as images/tables. Eg: Measurement of sleep in the critically ill. 2. The antipsychotic medication Haloperidol has not been explicitly mentioned in the antidepressant section of the manuscript and in my opinion its worthy of a mention considering the extensive use in recent times. 3. The 2018 PADIS (Practice Guidelines for the Prevention and Management of Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients in the ICU) pertaining to sleep can be referenced to emphasize the most recent evidence related to the topic. 4. Due to the recent publication of a similar review (PMCID: PMC8200142 PMID: 34135650 titled 'Updated Perspectives on the Management of Sleep Disorders in the Intensive Care Unit'), it is recommended that the authors highlight the unique findings of their review in abstract, core-tip and conclusions. Tables: Well compiled and comprehensive. Supplementary material: Could not be opened