

PEER-REVIEW REPORT

Name of journal: World Journal of Critical Care Medicine

Manuscript NO: 62887

Title: Glucocorticoid and mineralocorticoid receptor expression in critical illness: A narrative review

Reviewer's code: 05351456

Position: Peer Reviewer

Academic degree: MBBS

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Greece

Manuscript submission date: 2021-01-20

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-01-22 00:27

Reviewer performed review: 2021-01-27 03:50

Review time: 5 Days and 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 Grade E: Do not publish
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



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SPECIFIC COMMENTS TO AUTHORS

Peer Review: Glucocorticoid and mineralocorticoid receptor expression in critical illness

Authors provide a narrative review about the GCR and MR expression in critically ill patients and evaluation of the currently available literature. Major comments: Overall well written manuscript with demonstration of a good understanding of GCR and MR in sepsis patients and critical illness. Manuscript lacks any breakthrough information, although authors have tried to compile a lot of information in a review article. The information imparted in the review is very dense (not much can be done about that) however the presentation could certainly be improved upon. Authors should utilize visual presentation of some of the text (especially the cellular mechanism of receptor transport/translocation). “Glucocorticoids, the end-products of the HPA axis, have been used for over 40 years in the treatment of sepsis, however not all patients benefit from their administration” There is data supporting benefit in patients with septic shock to reduce the use of vasopressors and overall better outcome. Page 6 paragraph 2, could definitely improve the understanding if the authors use a visual representation for the mechanism. Authors should also discuss the interplay of vitamin C levels and GCR expression in the cell surface. This has been studied and known that vitamin C def can alter the expression of receptors. Page 9 paragraph 2: whole paragraph can be summed into a good informative image. The content is very dense and factual, authors could use some ways to present all the information which could be easily readable and would have retention.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Position: Peer Reviewer

Academic degree: MBBS

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Greece

Manuscript submission date: 2021-01-20

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-02-23 14:50

Reviewer performed review: 2021-02-23 14:54

Review time: 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
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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



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Thank you for making the necessary changes.