

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Psychiatry*

**Manuscript NO:** 84048

**Title:** Effect of hyperbaric oxygen on post-stroke depression

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06521483

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Ghana

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-03-08

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-03-09 08:31

**Reviewer performed review:** 2023-03-13 01:45

**Review time:** 3 Days and 17 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 Grade E: Do not publish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

<b>Scientific significance of the conclusion in this manuscript</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

I read the manuscript written by Hong Guo et al. with great interest. In my honest opinion, the topic is interesting and the observational studies novel enough to attract the readers' attention. Post-stroke depression is one of the common complications of stroke patients. patients with post-stroke depression in diabetes, requiring simultaneous treatment of blood glucose, depressive symptoms and neurological dysfunction. This study explores the clinical efficacy of hyperbaric oxygen therapy for stroke complicated with depression and diabetes mellitus, and to provide reference and basis for clinical treatment and development through the application of relevant rating scales and laboratory test indicators. The methods of data analysis are very clear, and the results are presented well. The manuscript is written clearly and I do agree with them about the limitations of retrospective studies.

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**Peer-review model:** Single blind

**Reviewer's code:** 06520664

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Research Associate

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-03-08

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-03-13 01:28

**Reviewer performed review:** 2023-03-14 08:55

**Review time:** 1 Day and 7 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
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
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Dear author, thank you for sharing your article. Your study is a well-written, good structured recommendation for the reference treatment of depression after diabetic stroke. The authors suggest that hyperbaric oxygen therapy can significantly improve depressive symptoms and neurological dysfunction in patients with poststroke depression, and reduce the levels of hypersensitive C-reactive protein, tumor necrosis factor - $\alpha$  and fasting blood glucose, which is worthy of clinical promotion. The recommendations are beneficial for clinical use. Also, your article is good in grammar and scientific writing rules. The topic is actual and well described. Thank you for a useful and important synopsis of this important topic. In addition to hyperbaric oxygen therapy, is there any other way to assist escitalopram in the treatment of post-stroke depression? Could you add the discussion of differences between hyperbaric oxygen therapy and these methods? I recommend that the manuscript can be published after a minor editing.