

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 86779

Title: Analysis of the relationship between blood pressure variability and subtle cognitive decline in older adults

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07746901

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor, Research Assistant

Reviewer's Country/Territory: Canada

Author's Country/Territory: China

Manuscript submission date: 2023-08-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-09-05 02:33

Reviewer performed review: 2023-09-11 02:43

Review time: 6 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 Grade E: Do not publish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 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 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 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 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

The theme of this work is very interesting. AD is a highly harmful disease, and there remains no truly effective therapy for AD. Early identification, screening, detection, and intervention are important for preventing the progression of the disease. In recent years, SCD has become a hot topic in early-stage AD research. Moreover, the blood pressure variability test is inexpensive, non-invasive and easy to be accepted by patients. Identifying BPV with cognitive impairment can provide clinicians with valuable insights into the treatment process. After the retrospective analysis of the correlation between BPV and SCD described in this article, BPV was found to be independently correlated with SCD and the increase of BPV was considered to be one of the risk factors for early cognitive decline. The design of this manuscript is very well, and the research direction is also very well. The results were excellent. These conclusions provide new information as a tool for assessing cognitive dysfunction and treatment effectiveness. However, before publication, it is necessary to pay attention to the following problems: It is suggested to revise the following minor issues for publication: The meaning expressed in the participants section should be that 1095 people should be screened, and after the

inclusion criteria, 237 people should be the control group and 182 people should be the SCD group. However, the description of this chapter is not very clear, it is recommended to update the description of this chapter.

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Title: Analysis of the relationship between blood pressure variability and subtle cognitive decline in older adults

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07746356

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: China

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Reviewer performed review: 2023-09-12 08:24

Review time: 8 Days and 8 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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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

The aim of this study is to explore the correlation between BPV and SCD, and to understand whether blood pressure variability could be used for early detection of cognitive impairment. Guo HF et al selected 237 individuals with normal cognitive (NC) function as the control group, and 182 with subtle cognitive decline (SCD) as the experimental group. The basic data, laboratory examinations, scale tests, and ABPM test results of the SCD and NC groups were retrospectively analyzed, and the relationship between BPV and SCD was subsequently assessed. Finally, they found that BPV is independently related to SCD and that the increase of BPV is one of the risk factors for early cognitive decline. This study has some limitations, the results are not rich, and the sample size of study is not large enough. However, BPV detection is cheap, non-invasive, and has a large audience, which is also an advantage. Overall, the manuscript is well written. The experimental design of this study is very well and the purpose is clear. The data in tables are excellent and well discussed. Thank you for giving me the opportunity to review this study. Was the study approved by the Ethics committee? I recommend that the manuscript can be published after polishing the English.



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https:// www.wjgnet.com