

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 88873

Title: Assessing myocardial indices and inflammatory factors to determine anxiety and depression severity in patients with chronic heart failure

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07746878

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: Canada

Author's Country/Territory: China

Manuscript submission date: 2023-11-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-11-08 08:30

Reviewer performed review: 2023-11-14 08:54

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 Grade E: Do not publish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 type="checkbox"/> Yes <input checked="" 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

Authors investigated patients with chronic heart failure with varying degrees of anxiety and depression (A&D) symptoms and assessed changes in myocardial markers and inflammatory factors to determine their associations with A&D severity. They used independent risk factors as predictive indicators and assessed their discriminative accuracy in predicting A&D severity using the area under the receiver operating characteristic curve. They demonstrated that A&D symptoms can affect the progression of chronic heart failure and lead to worse outcomes for patients. Their findings support the establishment of a classification system for evaluating A&D severity in patients with CHF based on biochemical markers. The paper is written well, the Introduction give a good overview about the study background and the authors raised clearly the hypothesis of the study. However, some questions should be answer. 1). The author needs to carefully examine the statistical results of Figure 1 and Figure 2, especially the calculation of p- values. 2). The expression of conclusions should be more concise and generalized.

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Manuscript NO: 88873

Title: Assessing myocardial indices and inflammatory factors to determine anxiety and depression severity in patients with chronic heart failure

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07746651

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor, Doctor

Reviewer's Country/Territory: Canada

Author's Country/Territory: China

Manuscript submission date: 2023-11-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-11-10 07:21

Reviewer performed review: 2023-11-14 10:25

Review time: 4 Days and 3 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

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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

This study explored the relationship between A&D severity, cardiac parameters, and inflammatory mediators in patients with CHF and revealed that the cardiac parameters and inflammatory factor levels differed significantly depending on the extent of A&D. In addition, the NYHA, SAS, and SDS scores also continuously increased as the severity of A&D increased. Specifically, IL-6, NT-proBNP, and LVEF were identified as independent factors that can distinguish moderate and severe-A&D from absent or mild A&D in patients with CHF. Moreover, they exerted high discriminative ability toward A&D when combined, which highlights the potential benefit of cardiac and inflammatory indicators in the classification and prediction of A&D in patients with CHF. This study has a certain guiding role in the diagnosis and treatment of anxiety and depression severity in patients with chronic heart failure. The experimental design of the article is reasonable and the writing is organized. It would be better if the author could provide more literature support on the selection of inflammatory factors.