

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 89419

Title: Global epidemiology of mental disorder in atrial fibrillation between 1998-2021: A systematic review and meta-analysis

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05824731

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Indonesia

Author's Country/Territory: China

Manuscript submission date: 2023-11-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-11-01 07:22

Reviewer performed review: 2023-11-01 09:26

Review time: 2 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 Grade E: Do not publish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 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
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

1. Original Findings: The manuscript presents original findings regarding the prevalence of depression and anxiety among patients with atrial fibrillation (AF). Through a systematic review and meta-analysis of 26 studies, the authors found that the prevalence of depression and anxiety varied based on gender and region. This highlights the importance of considering these factors when implementing psychological interventions for AF patients.

2. Quality and Importance: The manuscript demonstrates high quality in terms of adherence to the PRISMA 2020 statement and MOOSE guidelines. The study's importance lies in its contribution to the understanding of the global epidemiology of mental disorders in AF patients. By identifying prevalence rates, gender differences, and regional variations, the study adds valuable insights to the existing knowledge in this field.

3. Limitations and Future Directions: While the manuscript provides valuable information, it is important to acknowledge some limitations. One limitation is the inclusion of observational studies, which may introduce potential biases. Additionally, the manuscript could benefit from addressing the potential underlying mechanisms linking AF and mental disorders. In terms of future



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directions, it would be beneficial for the authors to explore the impact of different treatment modalities on the prevalence of mental disorders in AF patients. Furthermore, investigating the longitudinal course of mental disorders in relation to AF could provide a deeper understanding of the relationship between these conditions. 4. Impact on Basic Science and Clinical Practice: This publication has the potential to impact both basic science and clinical practice. The findings contribute to the growing body of literature on the association between mental disorders and AF. The identification of gender and regional differences in prevalence rates can inform the development of tailored psychological interventions for AF patients. Furthermore, this study prompts further research into the underlying mechanisms and long-term outcomes of mental disorders in the context of AF. Overall, the manuscript presents valuable findings regarding the prevalence of mental disorders in AF patients. With some consideration of the limitations and future directions suggested, this study has the potential to make a significant impact on both research and clinical practice in this field.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02445209

Position: Editorial Board

Academic degree: N/A, MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Czech Republic

Author's Country/Territory: China

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Reviewer accepted review: 2023-11-08 05:41

Reviewer performed review: 2023-11-12 19:01

Review time: 4 Days and 13 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 checked="" type="radio"/> Grade A: Excellent <input 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	[Y] Grade A: Excellent [] Grade B: Good [] Grade C: Fair [] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Re-review	[Y] Yes [] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous
	Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Dear authors, I have only a few comments on your manuscript: - You should describe the pathogenesis of depression and anxiety in atrial fibrillation in a more detail. - You should state which psychotropic medication is suitable for anxiety and depression in atrial fibrillation (i.e. in cardiovascular morbidity). Best regards The reviewer