

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 83378

Title: Diabetes Mellitus and Atrial Fibrillation-From Pathophysiology to Treatment

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06366603

Position: Peer Reviewer

Academic degree: MS, PhD, RN

Professional title: Assistant Professor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: Greece

Manuscript submission date: 2023-01-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-24 14:33

Reviewer performed review: 2023-01-24 14:43

Review time: 1 Hour

	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C:
Scientific quality	Good
	[] Grade D: Fair [] Grade E: Do not publish
Novelty of this manuscript	[] Grade A: Excellent [] Grade B: Good [] Grade C: Fair [Y] Grade D: No novelty
Creativity or innovation of this manuscript	 [] Grade A: Excellent [] Grade B: Good [Y] Grade C: Fair [] Grade D: No creativity or innovation
this manuscript	[] Grade D: No creativity or innovation



Scientific significance of the conclusion in this manuscript	[] Grade A: Excellent [] Grade B: Good [Y] 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	 [] Accept (High priority) [] Accept (General priority) [] Minor revision [Y] Major revision [] Rejection
Re-review	[]Yes [Y]No
Peer-reviewer statements	Peer-Review: [] Anonymous [Y] Onymous Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The topic of this article is very interesting, but there are still some issues that need to be clarified and further explain in the manuscript. 1.the term of "DM" is type1 or 2? 2.if the "DM" is type 2, how does the "glucose-lowering therapies " affect the ROS , or patients' HBA1C? 3.what is the possible direct mechanism of "glucose-lowering" therapies " in AF?



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Peer-review model: Single blind

Reviewer's code: 03846864

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2023-01-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-28 00:13

Reviewer performed review: 2023-01-28 02:03

Review time: 1 Hour

	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C:
Scientific quality	Good
	[] Grade D: Fair [] Grade E: Do not publish
Novelty of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No novelty
Creativity or innovation of this manuscript	 [] Grade A: Excellent [] Grade B: Good [Y] Grade C: Fair [] Grade D: No creativity or innovation



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Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] 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

1.It would be more appropriate to change the contents of Table 2 to those related to treatment 2.Draw a figure to describe the pathophysiological mechanism of the relationship between DM and AF in detail 3. The manuscript should talk about correlation of DM and AF first , then pathophysiological mechanism 4. The structure of the pathophysiological mechanism is not very clear, because the correlation is bidirectional. Will AF patients develop into DM? What is the mechanism?



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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03701805

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Professional title: Associate Professor

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Author's Country/Territory: Greece

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-27 01:38

Reviewer performed review: 2023-01-31 13:55

Review time: 4 Days and 12 Hours

	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C:
Scientific quality	Good
	[] Grade D: Fair [] Grade E: Do not publish
Novelty of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No novelty
Creativity or innovation of this manuscript	 [] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No creativity or innovation



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Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] 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

This interesting review presents the current evidence regarding the connection between diabetes and AF and discussing the therapeutic options. It is with significant importance for the treatment of cardiometabolic disease. The manuscript was well written. I have some suggestions for revision. 1. A figure summarized the mechanisms between the association between DM and AF is needed. It is important for the readers to get the key messages from the review. 2. It is important to summarize the biomarkers in the risk prediction and management of DM with AF. For example, adipokines are important in this field. Recently, some novel adipokines (PMID: 34790288; PMID: 32842761) had been reported in the risk prediction and management of cardiometabolic disease (e.g., diabetic cardiomyopathy). 3. Even in patients with prediabetes, the risk of CVD and HF (PMID: 32669282; PMID: 33769672) was increased. Is it similar for AF? 4. The authors had discussed that obesity and insulin resistance may play a link for DM and AF. Similar, nonalcoholic fatty liver disease is associated with increased risk of atrial fibrillation (PMID: 32279432). Is there an interaction?