PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 81513

Title: Ca2+/cAMP ratio: an inflammatory index for diabetes, hypertension and COVID-19

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04213605

Position: Peer Reviewer

Academic degree: BSc

Professional title: Teaching Assistant

Reviewer's Country/Territory: Singapore

Author's Country/Territory: Brazil

Manuscript submission date: 2022-11-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-11-13 13:13

Reviewer performed review: 2022-11-14 11:39

Review time: 22 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [Y] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] 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 [ ] Major revision [Y] Rejection
Re-review	[ ] Yes [Y] No

Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In this commentary manuscript, the author links and summarizes a Ca2+ dyshomeostasis as an upstream factor for hypertension, diabetes, and other inflammatory processes (such as COVID-19). However, there is no fruitful discussion on how further research should be done in this area. Furthermore, Figure 1 is also poorly done and does not explain any important concepts.

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous
statements	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The author provides a mini-review looking into the potential role of Ca2+ signaling in diabetes, hypertension, and COVID-19. The authors comprehensively summarize the relevance of Ca2+ signaling in these disorders. The paper is well written. Some issues should be addressed to improve the quality of the paper. 1. The author notes an increased severity of COVID-19 in patients with diabetes. COVID-19 can increase the risk of diabetes. The author needs to mention the recent evidence on bidirectional causal associations between diabetes and COVID-19. Better to mention hypertension too, since hypertension is also a risk factor for severe COVID-19 outcomes. 2. Obesity is a well-known risk factor for MetS, hypertension, and diabetes. Recent studies revealed that it is also a vital risk factor for COVID-19, as demonstrated by a recent phenome-wide analysis of COVID-19 (PMID 36316288). The author needs to discuss the relevance of obesity with these conditions and Ca2+ signaling.

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 81513

Title: Ca2+/cAMP ratio: an inflammatory index for diabetes, hypertension and COVID-19

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04611317

Position: Peer Reviewer

Academic degree: MD, MSc, PhD

Professional title: Associate Professor, Chief Physician

Reviewer's Country/Territory: Thailand

Author's Country/Territory: Brazil

Manuscript submission date: 2022-11-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-11-13 13:18

Reviewer performed review: 2022-11-26 03:31

Review time: 12 Days and 14 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [ ] Grade B: Minor language polishing [Y] Grade C: A great deal of language polishing [ ] Grade D: Rejection
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

There is no need for a question mark in the title of the manuscript. The author acknowledged several of his own works (7 from 19). English grammar has to be much improved. The author made no particular reference of the document on which he commented.