

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Cardiology*

**Manuscript NO:** 75083

**Title:** COVID-19 vaccination and cardiac dysfunction

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06006212

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** Thailand

**Manuscript submission date:** 2022-01-15

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-26 05:02

**Reviewer performed review:** 2022-01-27 03:49

**Review time:** 22 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No

#### **SPECIFIC COMMENTS TO AUTHORS**

Thank you very much for letting me contribute to this manuscript. The authors collected existing evidence thoroughly and summarized them. By doing so, this article can increase our awareness of myocarditis and pericarditis as adverse effects of SARS-CoV-2 vaccines. I personally acknowledge the completeness of the literature search. However, this manuscript still has the potential to be improved. As a review article, which is supposed to be secondary (rather than primary) information, readers want to know the essence or abstract of existing literature. In this review, the authors provide explanations of each study repeatedly. However, we would love to know the fundamental differences among these articles, such as what the difference is, why those difference were observed, or what insight we can obtain from them.

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**Peer-review model:** Single blind

**Reviewer's code:** 05573866

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Egypt

**Author's Country/Territory:** Thailand

**Manuscript submission date:** 2022-01-15

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-30 08:34

**Reviewer performed review:** 2022-02-04 18:04

**Review time:** 5 Days and 9 Hours

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

**statements**Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No**SPECIFIC COMMENTS TO AUTHORS**

Comments to Authors: Authors reported a possible occurrence of hypersensitivity myocarditis and pericarditis with a consistent relationship to administering an mRNA COVID-19 vaccination. Major concerns;

- Provide a table showing the sex difference of reported cases of myocarditis and pericarditis and reported cases that required hospitalization following the 1st and the 2nd dose of each type of mRNA COVID vaccines in different age groups.
- Provide a time line chart showing the number of myocarditis and pericarditis cases that were reported after each type of mRNA COVID vaccine (after the 1st and 2nd dose).