

Reply to reviewer

Manuscript type: Case Report

World Journal of Clinical Cases

Manuscript ID: 77784

Title Transient ischemic attack after mRNA-based COVID-19 vaccination during pregnancy: a case report

Reviewer #1:

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Accept (General priority)

Specific Comments to Authors: Good case. The readers will read with interest.

**Response: Thanks.**

### Reviewer 2

Comments, observations and Suggestions for authors.

In the present manuscript, by dr. Chang and colleagues, a case of a 24-year-old pregnant woman with a transient ischemic attack that developed after vaccination with the Moderna mRNA-1273 vaccine (at 37 2/7 weeks) has been presented. Following discharge (at 39 1/7 weeks of pregnancy), the female was admitted (at 37 2/7 weeks) for cesarean delivery to decrease the subsequent risk of stroke during labor. Main conclusions suggest that transient ischemic attack might be developed after the mRNA vaccines in pregnant women. The case is well presented in a clear and succinct way. Tables are informative. Scientific writing is adequate. The ms is therefore suitable for publication following a minor revision.

Please see below are some suggestions, which would allow the article to be improved for publication in World Journal of Clinical Cases Manuscript.

1. The introduction should start with the description of the transient ischemic attack, which is the focus of the work) and then with the general description of the stroke

**Response: Thanks for the suggestion. We revised the introduction paragraph sequence (introduction section).**

2. Page 4 "Severe acute respiratory syndrome .....reported in pregnant women [6]." COVID-19 has also been associated with coagulation disorders, secondary bacterial infections, immunodeficiency and myocardia (<https://doi.org/10.3390/microorganisms10061193>). This information and supporting reference should be included

**Response: We included the information and reference (introduction section).**

3. Page 4 "Nevertheless, thrombocytopenia ...mRNA vaccines [7]." This point should be more deeply underlined. Authors can check pro and con (<https://doi.org/10.1016/j.tru.2022.100104>, doi: 10.1016/j.ijid.2022.03.034 and <https://doi.org/10.3390/vaccines10040596>). The data of these important meta-analyses can be also quoted in the discussion

**Response: We added the references and expand the discussion (discussion**

section).

4. More information on the employed SARS-CoV-2 detection kit should be given

**Response: We added the detection kit introduction in the introduction section.**

5. Page 4 “In 15% of patients,” Which patient types?

**Response: 15% of patients “with stroke” (discussion section).**

6. Additional studies in the topic should be quoted in the discussion

<https://doi.org/10.1016/j.jstrokecerebrovasdis.2022.106440> and

[doi:10.1001/jama.2021.21699](https://doi.org/10.1001/jama.2021.21699), [doi: 10.1016/j.vaccine.2021.05.088](https://doi.org/10.1016/j.vaccine.2021.05.088), PMID: 35691322

**Response: We added the references in the discussion.**

### Reviewer 3

1. On the second line of Introduction, note the citation and punctuation placement.

**Response: Thanks for pointing it out. We revised the citation and punctuation placement.**

2. What is the emergency treatment for the patient due to transient ischemic attack ? Please add it in the “ Case presentation section”.

**Response: There was no treatment at ER except an ophthalmologist was consulted for her blurred vision (case report section).**

3. In the sixth paragraph of the discussion section, “Only one case report has been found”. According to relevant literature, the current cases of thrombosis caused by the new crown vaccine and thrombocytopenia have been reported in The Lancet and New England Journal. It seems that “Only one case report has been found” inappropriate. Please check again.

**Response: We deleted the sentence.**