

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Diabetes*

**Manuscript NO:** 84114

**Title:** Cellular and molecular overview of gestational diabetes mellitus: Is it predictable and preventable?

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

**Peer-review model:** Single blind

**Reviewer's code:** 04122784

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Doctor, Research Assistant Professor

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

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

**Manuscript submission date:** 2023-02-26

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-03-27 10:12

**Reviewer performed review:** 2023-03-31 16:19

**Review time:** 4 Days and 6 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" 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 type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<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
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

This review aims to discuss the underlying molecular and cellular mechanisms of GDM and the possible influential factors, as well as the predictive and preventive measures based on the clinical studies which investigated the etiology and management of GDM. Overall, this is an interesting study, which may be beneficial to the clinical management of GDM. However, I have several concerns as follow: 1. There is only 1 paragraph in “introduction”. The authors were suggested to divide it. Moreover, the size can also be reduced, if possible. 2. The figure 2 is helpful. However, it is far away from the major point of the review. GLUT4 is only one important part of this review. It is important to have a table/figure to summarize the potential factors to the prediction/prevention strategy for GDM. It should also be clarified in the manuscript. More detailed subtitle will be helpful. 3. Please also reduce the size of conclusion. The reviewer suggests to move some part of conclusion forward as “discussion”. The conclusion has to briefly summarize the major point/result of the whole review. 4. Moreover, it is helpful to further consider the advantage and disadvantage of each strategy in table/text. It is more friendly to the readers. 5. Although the study has language certificate, it still needs



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carefully editing by someone with expertise in technical English writing, preferably from a native English speaker with appropriate research background.

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**Peer-review model:** Single blind

**Reviewer's code:** 03282635

**Position:** Editor-in-Chief

**Academic degree:** MD, PhD

**Professional title:** Consultant Physician-Scientist, Senior Researcher

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

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

**Manuscript submission date:** 2023-02-26

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-04-10 10:15

**Reviewer performed review:** 2023-04-10 10:36

**Review time:** 1 Hour

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
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<b>Scientific significance of the conclusion in this manuscript</b>	<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
<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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

This is a nice article encompassing a molecular overview of prediction and prevention of GDM. The article is well written and interesting. I am happy with publication of the article after a minor revision in which I would like the authors to do an effort to summarize major concepts of treatment in the discussion along with a recent major reference (ref 1). I would recommend adding a brief sentence stating that we should update current treatment of GDM which is very frequently suboptimal and citing ref.2. More so the effect of COVID-19 on the risk of GDM should be mentioned given its relevance of this end and major recent evidences emerging from the Intercovid study (ref 2). This would add importance to the issue of vaccination for COVID 19 which improves substantially both maternal and pregnancy outcome (ref 3) References 1. Chatzakis C, et al. Gestational Diabetes Mellitus Pharmacological Prevention and Treatment. Curr Pharm Des. 2021;27(36):3833-3840. doi: 10.2174/1381612827666210125155428. PMID: 33550962. 2. Eskenazi B, et al. Diabetes mellitus, maternal adiposity, and insulin-dependent gestational diabetes are associated with COVID-19 in pregnancy: the INTERCOVID study. Am J Obstet Gynecol. 2022 Jul;227(1):74.e1-74.e16. doi:

10.1016/j.ajog.2021.12.032. Epub 2021 Dec 20. PMID: 34942154; PMCID: PMC8686449. 4. Villar J, et al.; INTERCOVID-2022 International Consortium. Pregnancy outcomes and vaccine effectiveness during the period of omicron as the variant of concern, INTERCOVID-2022: a multinational, observational study. *Lancet*. 2023 Feb 11;401(10375):447-457. doi: 10.1016/S0140-6736(22)02467-9. Epub 2023 Jan 17. PMID: 36669520; PMCID: PMC9910845.

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**Reviewer's code:** 03536702

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2023-02-26

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-04-11 00:01

**Reviewer performed review:** 2023-04-19 01:22

**Review time:** 8 Days and 1 Hour

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
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<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

In this review, the authors discussed the underlying molecular and cellular mechanisms of gestational diabetes mellitus (GDM) and the possible influential factors, as well as the predictive and preventive measures based on the basic and clinical studies which investigated the etiology, pathophysiology and management of GDM. The review is well written and informative, containing the current research progress in this field, which may help understand the principles of current drug actions and provide a clue to recognize new treatment targets. I suggest that this review be accepted for publication after the following minor issues are addressed. 1.Line 6 on page 4, the unit 'gm' should be 'g', and there should be a space between '75' and the unit 'g'. 2.The gene names should be italicized. Some gene names are not stardardized, e.g., 'PrIR' should be 'PrIr'. Please pay attention to these issues.