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PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 86242

Title: Effects of insulin aspart and metformin on gestational diabetes mellitus and inflammatory markers

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06520929
Position: Peer Reviewer
Academic degree: PhD
Professional title: Associate Professor, Doctor, Researcher
Reviewer's Country/Territory: United States
Author's Country/Territory: China

Manuscript submission date: 2023-07-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-07-11 08:01

Reviewer performed review: 2023-07-22 22:20

Review time: 11 Days and 14 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
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) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors made a retrospective study to investigate the effects of insulin aspart and metformin on gestational diabetes mellitus. After reasonable grouping the patients into observation and control groups, the authors showed that the baseline data of the two groups were similar, including the factors of age, maternal category, and educational level. However, the observation group showed lower level of blood-glucose-related indexes [fasting blood glucose (FBG), 2-h postprandial glucose (2h PG) and hemoglobin A1c (HbA1c)], serum related factor (Hcy), serum inflammatory cytokines (TNF-α, IL-6 and CRP). In short, the topic of this manuscript is timely and interesting. The authors have organized the manuscript rationally, with good methodology and well-written English. However, some important editing needs to be done before publication: 1. What is the most commonly used treatment for gestational diabetes mellitus in clinic? Compared with that, what are the key advantages of the combination of insulin aspart and metformin? 2. In this study, the drug treatment for patients lasted until delivery. Then, how long will the patient's status be tracked after delivery? 3. The authors should add ethical statement in the manuscript.

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Manuscript NO: 86242

Title: Effects of insulin aspart and metformin on gestational diabetes mellitus and inflammatory markers

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06519602
Position: Peer Reviewer
Academic degree: MD, PhD
Professional title: Associate Professor, Doctor, Research Associate
Reviewer's Country/Territory: Germany
Author's Country/Territory: China

Manuscript submission date: 2023-07-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-07-10 08:09

Reviewer performed review: 2023-07-23 22:09

Review time: 13 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
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

Gestational diabetes mellitus refers to different degrees of abnormal glucose metabolism that develops or is first found during pregnancy, which has shown a significant increasing trend due to the change of life style and the fertility policy. To address this challenge, in this study, the authors aimed at exploring the value of combination of insulin aspart and metformin for GDM treatment. The authors used primary clinical data, blood analysis, outcome measures on patients in groups of observation/control, and statistical method to organize their manuscript. The results showed that, after treatment, the levels of FBG, 2h PG, HbA1, Hcy, TNF-α, IL-6 and CRP in both groups were significantly decreased ($P < 0.05$), and the levels of FBG, 2h PG, HbA1, Hcy, TNF-α, IL-6 and CRP in the OG were lower than in the CG ($P < 0.05$). The study design is reasonable, and the results reflects the conclusion as well. I recommend its acceptance after the minor revision. The detailed comments are: Comments 1: In my opinion, this study focused on the effects of insulin aspart and metformin on gestational diabetes mellitus. So, the title of this paper can be simplified. Comments 2: In the "Inclusion and exclusion criteria" part, why did the authors exclude patients with multiple

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pregnancies?