

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 68589

Title: Association of Types of Diabetes and Insulin Dependency on Birth Outcomes

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05774529

Position: Peer Reviewer

Academic degree: FASCRS, MD, PhD

Professional title: Deputy Director

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-07-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-21 01:42

Reviewer performed review: 2021-07-21 15:43

Review time: 14 Hours

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 Grade E: Do not publish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

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is an interesting retrospective study with great clinical significance. The authors included a large number of samples to make their conclusions more convincing. However, the author still needs to clarify or improve these place: 1. In Table 1, the author used the chi-square test to find the relationships between different Diabetes categorizes and Demographic characteristics. However, it is not specific enough. Post hoc testing should be introduced to calculate the adjusted standard residuals so that determining the tendency of each group. 2. The author found that all demographic characteristics were related to diabetes categorizes ($p < 0.05$) and the adjusted odds ratios (aOR) were calculated based on all demographic characteristics. The author could introduce Cramer's V coefficient to evaluate the degree of correlation between demographic characteristics and diabetes status. Only demographic characteristics with strong correlation could be included to calculate adjusted odds ratios.

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Reviewer's code: 05533129

Position: Peer Reviewer

Academic degree: MBChB, MD, MS

Professional title: Doctor, Staff Physician

Reviewer's Country/Territory: Sweden

Author's Country/Territory: United States

Manuscript submission date: 2021-07-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-21 19:58

Reviewer performed review: 2021-07-30 11:56

Review time: 8 Days and 15 Hours

Scientific quality	<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
Language quality	<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
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Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I read with interest the study by Xaverius P.K et al., entitled “association of Types of Diabetes and Insulin dependency on birth outcomes”. In this work, a cross-sectional study was conducted capturing live singleton births in Missouri from 2010-2012 with record linkage to death certificate. Analysis of different categories of women with diabetes mellitus showed significant association with different birth outcomes and neonatal mortality. Overall, the study confirms previous evidence of hyperglycemia-related deleterious maternal and fetal outcomes. Some issues need to be discussed though:

- How the investigators ascertained Insulin dependent in women labelled as DM -I?? is it maintenance therapy with insulin by codes or cumulative doses??
- Can the author consider adding the term mellitus in the title to avoid confusion with other types of diabetes?
- Can the authors explain more the reliability of BMI in pregnant women?
- Page 5: Materials and methods (please consider making a flowchart for better illustrating the cohort).
- Page 6: please consider more elaboration on the statistical methods used in the study.
- Consideration of the unmeasured confounders such as maternal co-morbidities in the limitations of the study.
- In Table 1: Which inter-group significance represent the P values and mention the test used. Consider diving the table into one for the characteristics and another for the outcomes.
- Minor errors: Page 4, line 3: consider replacing “supports the claim that there is evidence of” to showed. Page 4, line 7: there is an important gap to there is a gap or knowledge is lacking..... Page 4, lines 21-25: starts with Further,to women with GDM.(consider rephrasing as it is difficult to read). In the discussion section (please consider incorporating the paragraphs after comments into the discussion).