PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 90978

Title: Association between glucose-lowering drugs and circulating insulin antibodies induced by insulin therapy in patients with type 2 diabetes

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 07396193

Position: Peer Reviewer

Academic degree:

Professional title:

Reviewer’s Country/Territory: India

Author’s Country/Territory: China

Manuscript submission date: 2023-12-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2024-02-16 17:59

Reviewer performed review: 2024-03-04 07:23

Review time: 16 Days and 13 Hours

<table>
<thead>
<tr>
<th>Scientific quality</th>
<th>Grade A: Excellent</th>
<th>Grade B: Very good</th>
<th>Grade C: Good</th>
<th>Grade D: Fair</th>
<th>Grade E: Do not publish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novelty of this manuscript</td>
<td>Grade A: Excellent</td>
<td>Grade B: Good</td>
<td>Grade C: Fair</td>
<td>Grade D: No novelty</td>
<td></td>
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<tr>
<td>Creativity or innovation of this manuscript</td>
<td>Grade A: Excellent</td>
<td>Grade B: Good</td>
<td>Grade C: Fair</td>
<td>Grade D: No creativity or innovation</td>
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</table>
### 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
- [ ] Grade B: Minor language polishing
- [Y] Grade C: A great deal of language polishing
- [ ] Grade D: Rejection

### Conclusion

- [ ] Accept (High priority)
- [ ] Accept (General priority)
- [ ] Minor revision
- [Y] Major revision
- [ ] Rejection

### Re-review

- [Y] Yes
- [ ] No

### Peer-reviewer statements

- Peer-Review: [Y] Anonymous
- [ ] Onymous

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

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**SPECIFIC COMMENTS TO AUTHORS**

LINE 40-42 : BETTER TO REWRITE THIS SENTENCE “Insulin antibodies (IAs), which were found commonly developed in patients treated with exogenous insulin, might affect glycemic control due to their tendency to bind and/or release insulin in an unpredictable fashion” - You can remove “commonly” from this sentence Line 57 : “that act similarly” can be removed Line 58-59 : Rewrite this sentence Line 68-69 : “The methods were conducted in accordance with the Declaration of Helsinki guidelines, including any relevant details” - better to write as “this study was conducted in accordance with the Declaration of Helsinki guidelines” Line 72 : Replace “was” with “were” Line 80-81: Replace “autoimmune” with “antibody” Line 83 : Specify what do you mean by systemic diseases Rewrite entire process of insulin antibody measurement It is better to discuss why this method was chosen for insulin antibody measurement and what are the limitations of this method. Line 137- 145 : Rewrite these results in better manner e.g replace “highe age” with “older people” Line 146-147 : “Moreover, HOMA2-IR was higher in patients with IA>10% than in patients with IA≤1%” - Better to write as “Patients having higher IA levels > 10% were having higher HOMA-IR as...
compared to those having IA < 1%” Line 151-159 : Entire paragraph related to logistic regression analysis requires rewriting and proper editing. It is better to write about baseline characteristics of total sample size with proportion of patients on different insulin regimens and different combination of oral antidiabetic drugs with insulin initially in results section Line 170-172 : This study only shows lower levels of antibodies in patients on galrgine therapy as compared to human insulin - it does not imply that glargine therapy induces lowest antibody levels. Authors have to correct this throughout the entire manuscript. Line 194-198 Same has been written about oral antidiabetic agents in discussion section - which is to be removed and requires rewriting. Line 207-208 : more insulin is linked with increased costs but is it linked with higher weight gain - please mention reference for this sentence Line 212-213 : “the choose of therapeutic regimen in patients with positive IAs is important.” Please write it in a more meaningful way. Do you mean higher IA levels require modification of therapy ? Need to rewrite conclusion of this study - mention only about findings of this study. Remove this sentence “ which may be considered in patients with T2DM who need insulin therapy, especially those who had positive IAs” from conclusion as it implies causal association between OADs and lower IA levles which is not proven in this study. FINAL COMMENT : MAJOR REVISIONS REQUIRED