

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 89297

Title: Evaluation of hybrid closed-loop insulin delivery system in type 1 diabetes in real-world clinical practice: One-year observational study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07730286

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: United States

Manuscript submission date: 2023-10-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-11-02 23:44

Reviewer performed review: 2023-11-05 05:42

Review time: 2 Days and 5 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No novelty
Creativity or innovation of this manuscript	☐ Grade A: Excellent ☐ Grade B: Good ☒ Grade C: Fair ☐ Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	☐ Grade A: Excellent ☐ Grade B: Good ☒ Grade C: Fair ☐ Grade D: No scientific significance
Language quality	☒ Grade A: Priority publishing ☐ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☐ Accept (General priority) ☐ Minor revision ☒ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No
Peer-reviewer statements	Peer-Review: ☒ Anonymous ☐ Onymous
	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript, the authors investigated the effect of hybrid closed-loop (HCL) delivery system on glycemic control and quality of life in patients with T1D. This study is important because there is limited information on the impact of HCL on patient-reported outcomes (PROs). Nevertheless, there are some issues that needed to be written. Major issues 1) Details of insulin therapy at baseline were not provided. Given the 30-year history of diabetes in this study, it is assumed that patients on insulin pump therapy or pen insulin therapy with isCGM or RT-CGM were included. The description of insulin therapy prior to the introduction of HCL is essential to analyze the effect of HCL. 2) In the results section, the authors stated that %TiAM was not associated with AIC, %TIR or PROs, but was it associated with baseline AIC, %TIR or PROs?, or was it not associated with 12-month AIC, %TIR or PROs?, or was it not associated with the change of AIC, %TIR or PROs during 12 months? The data should be presented in figure or table. 3) The statements in the conclusion are different from the statements in the result section. The authors should present the study's results in the conclusion without exaggeration. For example, the association between improvement in glycemic control

and reduction in fear of hypoglycemic episodes has not been analyzed, nor has the association with increase in awareness of hypoglycemic episodes. 4) A correlation analysis should be added for the improvement in glycemic control with HCL and the changes of PROs. Minor issue 1) In the Results section, the significance test for HFS is p

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Peer-review model: Single blind

Reviewer's code: 05185912

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor, Research Scientist

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2023-10-26

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-11-17 03:58

Reviewer performed review: 2023-11-17 10:05

Review time: 6 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☐ Grade A: Excellent ☐ Grade B: Good ☒ Grade C: Fair ☐ Grade D: No novelty
Creativity or innovation of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No scientific significance
Language quality	☒ Grade A: Priority publishing ☐ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☒ Accept (General priority) ☐ Minor revision ☐ Major revision ☐ Rejection
Re-review	☐ Yes ☒ No
Peer-reviewer statements	Peer-Review: ☒ Anonymous ☐ Onymous
	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript titled “Evaluation of Hybrid Closed-loop Insulin Delivery System in People with Type 1 Diabetes in Real-World Clinical Practice: A One-Year Observational Study”, the authors evaluated the glycemic control and quality of life measures in patients with type 1 diabetes in a real-world clinical practice who used hybrid closed loop systems over a period of 12 months. As it evaluated significant number of quality-of-life parameters, this may be important to analyze the actual using effect of the corresponding hybrid closed-loop insulin delivery system. Therefore, as an interesting and well-designed small study, it can be published in this journal. Ps: Please pay attention to the use of abbreviations. The first time it appears, please provide the full spelling and abbreviation, but when it appears again, please write the abbreviation directly.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 89297

Title: Evaluation of hybrid closed-loop insulin delivery system in type 1 diabetes in real-world clinical practice: One-year observational study

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Reviewer's code: 07730286

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: United States

Manuscript submission date: 2023-10-26

Reviewer chosen by: Cong Lin

Reviewer accepted review: 2023-12-12 02:59

Reviewer performed review: 2023-12-12 08:55

Review time: 5 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Language quality	☒ Grade A: Priority publishing ☐ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☒ Accept (General priority) ☐ Minor revision ☐ Major revision ☐ Rejection
Peer-reviewer	Peer-Review: ☒ Anonymous ☐ Onymous



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: office@baishideng.com
<https://www.wjgnet.com>

statements

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

SPECIFIC COMMENTS TO AUTHORS

You have adequately answered my points, and I have no further requests. I believe this paper is Accept.