



PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 84398

Title: Glucose metabolism profile recorded by flash glucose monitoring system in patients with hypopituitarism during prednisone replacement

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02624433

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: China

Manuscript submission date: 2023-03-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-03-20 03:37

Reviewer performed review: 2023-03-30 09:41

Review time: 10 Days and 6 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 Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input 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 checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



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Scientific significance of the conclusion in 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 scientific significance
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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

Congratulations for the successful performance of very interesting study. The optimum way of glucocorticoid replacement therapy for the patients with panhypopituitarism is still obscure. And I think this paper may contribute to find the adequate answer.



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Peer-review model: Single blind

Reviewer's code: 03909522

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2023-03-13

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-05-09 04:38

Reviewer performed review: 2023-05-09 06:52

Review time: 2 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
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
Creativity or innovation 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 creativity or innovation



Scientific significance of the conclusion in 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 scientific significance
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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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

Major comments The authors have demonstrated a unique approach to the utilization of the FGMS and have presented some interesting data. However, definitions of various parameters and detailed descriptions of patient backgrounds are insufficient, and the reliability of the data needs to be improved. In Table 1, the description of the status of prednisone intake at the time of cortisol and ACTH measurements should be included. Besides, ACTH values are in the reference range in all groups, and the results may not indicate hypopituitarism. The authors state in the Introduction that although hydrocortisone is the default for GCs replacement, prednisone is used as the GCs in this study. I think the authors should clarify the reason for this. Minor comments (General) Prednisone dosage should be 5mg → 5mg/day. (Methods) Please add details about the PG group in this study (cf. diagnostic criteria for hypopituitarism, distribution of diseases causing hypopituitarism) Please indicate the product name of the flash glucose monitoring system used and its distributor. Please provide definitions of PT1, PT2, PT3, TIR, and TOR in the text. Please provide a definition of "hypoglycemia" in the text. (Result) Please indicate the average dose of Prednisone



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used in the Pred > 5mg group and Pred ≤ 5mg group. If statistical comparisons were done please specify the groups to which you compared the results (see p10 L274-275, L284-286). (Table) Please specify in the text or in the figure legend what you mean by "Disease duration (days)" in Table 1. Please provide the average BMI of the patients.



RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Diabetes*

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Peer-review model: Single blind

Reviewer's code: 03909522

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2023-03-13

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2023-05-18 05:21

Reviewer performed review: 2023-05-18 14:24

Review time: 9 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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

Thank you for your careful response to my comments, I would like to comment on a few points. I asked for comments about ACTH concentrations in Table 1. in the first review. However, I did not receive a clear answer. This patient group is on steroid replacement therapy for hypopituitarism. Even if the effect of prednisone is diminished, or even if ACTH secretion is suppressed by prednisone, ACTH concentrations would be expected to be low. However, the ACTH levels in Table 1 are in the normal range in all groups. I think the authors need to mention why ACTH secretion is preserved in the patient group. Another comment is very trivial. I recommend that the details of the freestyle libre be included in the "Methods" section. The authors describe blood glucose from Freestyle Libre as blood glucose." Please use the correct terms "blood glucose" and "sensor glucose" so as not to confuse the reader.