



PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 73886

Title: Successful treatment of hyperglycemia with liraglutide in a hospitalized 27-year-old patient with schizophrenia: A case report

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04213605

Position: Peer Reviewer

Academic degree: BSc

Professional title: Teaching Assistant

Reviewer's Country/Territory: Singapore

Author's Country/Territory: China

Manuscript submission date: 2021-12-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-06 14:02

Reviewer performed review: 2022-01-08 02:28

Review time: 1 Day and 12 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 Grade E: Do not publish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
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 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
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SPECIFIC COMMENTS TO AUTHORS

- 1 Title. Does the title reflect the main subject/hypothesis of the manuscript? Yes
- 2 Abstract. Does the abstract summarize and reflect the work described in the manuscript? Yes
- 3 Key words. Do the key words reflect the focus of the manuscript? Yes
- 4 Background. Does the manuscript adequately describe the background, present status and significance of the study? Yes
- 5 Methods. Does the manuscript describe methods (e.g., experiments, data analysis, surveys, and clinical trials, etc.) in adequate detail? Yes
- 6 Results. Are the research objectives achieved by the experiments used in this study? What are the contributions that the study has made for research progress in this field? Yes
- 7 Discussion. Does the manuscript interpret the findings adequately and appropriately, highlighting the key points concisely, clearly and logically? Are the findings and their applicability/relevance to the literature stated in a clear and definite manner? Is the discussion accurate and does it discuss the paper's scientific significance and/or relevance to clinical practice sufficiently? Yes
- 8 Illustrations and tables. Are the figures, diagrams and tables sufficient, good quality and appropriately illustrative of the paper contents? Do figures require labeling with arrows, asterisks etc., better legends? Yes
- 9 Biostatistics. Does the manuscript meet the requirements of biostatistics? Yes
- 10 Units. Does the manuscript meet the requirements of use of SI units? Yes
- 11 References. Does the manuscript cite appropriately the latest, important and authoritative references in the introduction and discussion sections? Does the author self-cite, omit, incorrectly cite and/or over-cite references? Yes
- 12 Quality of manuscript organization and presentation. Is the manuscript well, concisely and coherently organized and presented? Is the style, language and grammar accurate and appropriate? Yes
- 13 Research



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methods and reporting. Authors should have prepared their manuscripts according to manuscript type and the appropriate categories, as follows: (1) CARE Checklist (2013) - Case report; (2) CONSORT 2010 Statement - Clinical Trials study, Prospective study, Randomized Controlled trial, Randomized Clinical trial; (3) PRISMA 2009 Checklist - Evidence-Based Medicine, Systematic review, Meta-Analysis; (4) STROBE Statement - Case Control study, Observational study, Retrospective Cohort study; and (5) The ARRIVE Guidelines - Basic study. Did the author prepare the manuscript according to the appropriate research methods and reporting? Yes 14 Ethics statements. For all manuscripts involving human studies and/or animal experiments, author(s) must submit the related formal ethics documents that were reviewed and approved by their local ethical review committee. Did the manuscript meet the requirements of ethics? No Ethics approval and statement need to be attached before publication.



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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05635902

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor, Statistician

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2021-12-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-06 14:16

Reviewer performed review: 2022-01-14 15:17

Review time: 8 Days and 1 Hour

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 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 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



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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
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SPECIFIC COMMENTS TO AUTHORS

This is a case study report of a young schizophrenic man's body weight trajectory and blood glucose level receiving Liraglutide as an alternative therapy for treating his glucose metabolism and obesity. The case report is written in a good way, however, there are some major and minor deficiencies that the authors need to address to make it an excellent report. This is a case report and hence the original findings need to be highlighted such that it is novel to other published research so that it will encourage for potentially new larger studies. There are several issues that need to be resolved. Please see the attached critique.



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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

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: 2021-12-30

Reviewer chosen by: Qi-Gu Yao

Reviewer accepted review: 2022-01-18 13:59

Reviewer performed review: 2022-01-18 15:23

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 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
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SPECIFIC COMMENTS TO AUTHORS

[General Comment] The authors suggest that liraglutide is useful for diabetic patients with schizophrenia. However, I think there is a lot of lack of information to support this idea and it needs significant revision. [Abstract] I think that the description in L17-22 is not appropriate as a case summary, as it only describes the reported-nature of antipsychotics and GLP-1. I recommend that you consider deleting this section or changing the description. Case presentation The patient gained 50 kg in 2 years. What was her lifestyle like? What were her eating habits prior to hospitalization? Were there any lifestyle habits that could significantly modify the abnormalities in glucose metabolism caused by antipsychotics, such as the habit of consuming large amounts of soft drinks? Please describe the patient's height, weight, vital signs including blood pressure and pulse rate, and physical examination. Please show the results of any laboratory tests other than blood glucose. I recommend creating a table about the results of blood and urine. In addition, I think that the results of the tests about secondary obesity should also be included. (Ex. Cushing's syndrome) [Treatment] You mentioned that you started treatment with CSII in L19. Please describe the name of the insulin you used. If you used an insulin pump, please provide the name of the device. The authors should clarify whether the use of insulin glargine and metformin was continued or discontinued after hospitalization. Please describe the regimen of diet and exercise for this patient. If the administration of liraglutide resulted in a change in eating behavior, detailed description of the eating behavior seems to be very important. Please show the status of diabetic complications. (Ex. nephropathy, retinopathy, neuropathy, and other vascular complications) Please clarify the changes in HbA1c



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and body weight during the two years after discharge from the hospital. I recommend creating a graph to make it easier to track your long-term progress. [Discussion] There is a lack of discussion to support the author's idea that liraglutide contributed to the good course of this patient. In the current manuscript, the discussion section seems to be only pharmacological and physiological information. The authors need to show from the course of this case that liraglutide was independently more effective than the diet and exercise therapy prescribed during the hospitalization.



RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

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: 2021-12-30

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2022-03-15 05:42

Reviewer performed review: 2022-03-15 08:03

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
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 the revision. The clinical course regarding the experience with liraglutide in schizophrenic patients has been clarified. I would suggest minor revisions before publication. Treatment - Please show the specific name of insulin pump by Medtronic. - Please indicate the specifics of the diabetic diet (amount of daily calories and proportions of nutrients). Outcome and Follow-up - "loboratory" -> "laboratory"? Discussion The fact that only telephone follow-up was done for 2 years after discharge from the hospital is one of the limitations of this report, as it may overlook environmental factors other than liraglutide that contributed to the improvement in blood glucose and weight. We recommend that this point be clearly stated in the discussion section. Figure - Please add the units in Y axis in Fig 1. Table - Please show the date of Follow-up after discharge.



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Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor, Statistician

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2021-12-30

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2022-03-16 21:50

Reviewer performed review: 2022-03-16 22:11

Review time: 1 Hour

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



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

SPECIFIC COMMENTS TO AUTHORS

Thank you for your thorough response to the review comments. Your responses have increased the quality of the case study.