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OPEN PEER REVIEW

Anti-diabetic Effects of Two Species of *Eryngium* on Streptozotocin-induced Diabetic Mice

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

1 comment · 31 Aug 2022

Editor-in-Chief

MAJOR REVISION 31 Aug 2022

Dear Authors,
We have received the reviewers' comments on your manuscript. They believe it needs major revision. We will reconsider it if you wish to revise your manuscript accordingly.
Please remember to include answers or any rebuttal to the reviewers' comments and highlight the changes when submitting your revised manuscript.

Kind Regards,
EIC JJNPP

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear Editor-in-Chief,

Jundishapur Journal of Natural Pharmaceutical Products,

Dear Editor,

We would like to express our appreciation to you and the esteemed reviewers for their insightful comments, which helped us significantly to improve our manuscript. According to the suggestions, we have thoroughly revised our manuscript and its final version is enclosed. Please kindly find point-by-point responses to the comments listed below.

Reviewer 1:

According to the published articles related to these plants, this article has a special innovation.

Author's response: We thank the respected reviewer for his positive opinion.

All methods mentioned in the manuscript are not supported by the references.

Response: with apologize for this mistake. As advised, all references were checked and updated carefully and the related references were added.

Abbreviations should be introduced in the text for the first time that they present.

Response: with apologies for this typo mistake, all abbreviations were revised and corrected.

Please provide a method for blood collection and providing the serum samples.

Response: We thank the respectful reviewer for this useful comment. As recommended, the mentioned methods for blood collection and providing the serum samples were added in the main text, lines: 89-93.

What was your reference for dose selection?

Response: With apologies, the related references were added in the “3.3. Animals” section.

The significance levels were not present appropriately in the charts.

Response: with apologies for this typo mistake, all significance levels were checked and edited.

The authors should pay more attention in the discussion to potential practical applications of these findings in results.

Response: As anti-diabetic chemical drugs have various side effects, the finding of novel anti-diabetic natural products is strongly suggested. Among the studied species of Eryngium, only the anti-diabetic effect of *E. thyrsoideum* was known via rising serum insulin and diminishing serum MDA. Therefore, in the current study, the formulation of *E. thyrsoideum* extract as a natural anti-diabetic drug was investigated. Furthermore, it seems that the use of natural drugs can help to reduce the dosage of chemical anti-diabetic drugs and decrease their side effects. Clinical human studies are recommended in future projects. As recommended, more details were added in the "Discussion" section.

Avoid repeating the presented results in the discussion section.

Response: With apologies; the repeated results were removed in the "Discussion" section.

You should explain the "limitations" of the study at "Discussion" section.

Response: As recommended, the "limitations" of the study were explained in the "Discussion" section, lines 248-256.

You should present some distinct suggestions to clarify further investigations regarding the issue in the future at "Discussion" section.

Response: As recommended, some distinct suggestions to clarify further investigations regarding the issue in the future were added in the "Discussion" section, lines 257-264, as follows:

"Several suggestions are made to clarify further research on the current study soon, which include (a) It is suggested to investigate the hydroalcoholic extract of the plant in terms of phytochemistry to identify and extract the effective chemical compounds in its anti-diabetic effects; (b) The antidiabetic effect of the extract of this plant can be checked in other solvents; (c) The antidiabetic effect of the essential oil of this plant can be investigated in clinical studies; (d) To understand the anti-diabetic functional mechanism of the extract of this plant, the effect of the studied plant extract can be compared simultaneously with several classes of anti-diabetic drugs to understand the similarity of the functional mechanism of the extract of this plant."

In my opinion, this article need to major revision

Response: We thank the respectful reviewer for this useful comment. As recommended, the manuscript was checked in terms of unseen typos and revised carefully. In addition, the manuscript has been edited by Dr, Reza Kalantari Ph.D. All grammar errors have been removed.

Reviewer 2:

This article is well written. However, it has poor novelty, and the results are not enough. My comments and suggestions regarding this paper have been listed:

Author's Response: Thank you for pointing these out. As recommended, all mentioned comments in the manuscript were incorporated point-by-point and the manuscript was revised accordingly.

Comments

• It is suggested to evaluate catalase, superoxide dismutase, glutathione peroxidase activities, and total antioxidant capacity.

Response: We thank the respectful reviewer for this useful suggestuin. As suggested, the serum total antioxidant capacity (TAC) was measured and the related method result and reference were added as a new section.

Methods:

*Please provide a reference for the following sentence

Response: With apologies, the related references were added.

Results

Please delete Figure 1.

Response: As advised, Figure 1 was removed.

Please delete the titles of Figures, which are located at the top of the graphs.

Response: With apologize for this typo mistake; the titles of the figures were removed.

We hope you will find the re-revised manuscript suitable for publication in **Jundishapur Journal of Natural Pharmaceutical Products** and look forward to hearing from you in due course.

With Kind Regards
Yours Sincerely

2 Revision 1

1 comment · 26 Nov 2022

Editor-in-Chief

ACCEPT 26 Nov 2022

Dear Authors,
It is my pleasure to inform you that your manuscript has been accepted for publication in JJNPP in its current form. We forward it to the publisher for further processing.

Kind regards,
JJNPP EIC