Author’s response to reviews

Title: In vitro antioxidant and cholinesterase inhibitory activities of Elatostema papillosum leaves and correlation with their phytochemical profiles: a study relevant to the treatment of Alzheimer’s disease

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Version: 3 Date: 19 Mar 2018

Author’s response to reviews:

To

The Editor

BMC Complementary and Alternative Medicine

BioMed Central

Sub: Submission of Revised Manuscript (BCAM-D-17-00808R2)

Dear Editor

Thank you very much for your suggestions and positive comments and giving me again an opportunity to revise our manuscript entitled “In vitro antioxidant and cholinesterase inhibitory
activities of Elatostema papillosum leaves and correlation with their phytochemical profiles: a study relevant to the treatment of Alzheimer's disease”. We have made necessary changes in the revised manuscript as you suggested. In the following, I have written a point-to-point response to address your concern.

We believe the manuscript has been improved substantially after several revisions. Therefore, it would be highly appreciated if you kindly consider our manuscript for publication in your journal.

Sincerely

Dr AHM Khurshid Alam
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A response to Editor and Reviewer’s Comments:

1. Editor’s Comments

1. Please change the Materials and Methods heading to Methods.

Response: According to your suggestion, heading has been changed (page 4, line 90).

2. Please specify who identified the plants material, please give their name in the Methods section.
Response: Thank you very much for your comment. The taxonomist’s name has been incorporated in the method section under the title of the collection of plant (page 5, line 100).

3. Please clarify in the Methods section where the rats were acquired from.

Response: According to your suggestion, it has been included in the method section under the title of experimental animals (page 5, lines 111-116).

4. Please specify in the Methods section all methods of anesthesia and euthanasia used in this study, along with dosage used if appropriate.

Response: Accordingly, it has been incorporated in the method section under the title of euthanasia method (page 6, lines 122-128).

5. Please specify in the Ethics approval and consent to participate section which animal handling guidelines were followed with regards to the rats.

Response: According to your suggestion, ethical approval has been specified and incorporated in the method section (page 6, lines 118-121).

6. The Availability of data and materials section refers to the raw data used in your study and presenting tables and figures is not sufficient to state that all data is contained within the manuscript and additional files. Please only use this statement if you have indeed provided all raw data on which your study is based. We strongly encourage all authors to share their raw data, either by providing it in a supplementary file or depositing it in a public repository and providing the details on how to access it in this section. If you do not wish to share your data, please clearly state this in this section along with a justification. Data availability statements can take one of the following forms (or a combination of more than one if required for multiple datasets):

- The datasets generated and/or analysed during the current study are available in the [NAME] repository, [PERSISTENT WEB LINK TO DATASETS]
- The datasets used and/or analysed during the current study available from the corresponding author on reasonable request.
• All data generated or analysed during this study are included in this published article [and its supplementary information files].

• The datasets generated and/or analysed during the current study are not publicly available due [REASON WHY DATA ARE NOT PUBLIC] but are available from the corresponding author on reasonable request.

The data that support the findings of this study are available from [third party name] but restrictions apply to the availability of these data, which were used under license for the current study, and so are not publicly available. Data are however available from the authors upon reasonable request and with permission of [third party name].

Please also note that if you include your raw data as a supplementary file you will need to provide, after the References, a section titled “Additional files” where you list the following information about each of your supplementary files: * File name (e.g. Additional file 1), * Title of data, * Description of data. All additional files will also need to have been cited in the main manuscript.

Response: According to your suggestion, it has been changed as follows:

All data generated or analysed during this study are included in this published article (page 15, lines 337-338).

7. The individual contributions of ALL authors to the manuscript should be specified in the Authors’ Contributions section. Guidance and criteria for authorship can be found here:

http://www.biomedcentral.com/submissions/editorial-policies#authorship

Currently, Md. Rezanur Rahman appears to be missing from the contributions.

Response: Thank you very much for your close observation and comments. Accordingly, Md. Rezanur Rahman’s contribution has been included in the author contribution section (page 16, line 342).
8. Please reword your Conclusions section, as you did not carry out testing on humans, therefore, you cannot conclude that anything should be used in humans (e.g. "supporting its traditional utilization in Bangladesh for the prevention and/or treatment of AD.")

Response: According to your suggestion, we have changed our conclusion section as follows: To the best of our knowledge, this is the first report describing the cholinergic inhibitory and antioxidant activities of Elatostema papillosum. However, further testing in an animal model of Alzheimer’s disease is needed to clarify the in vivo effectiveness of this plant (page 15, lines 328-330).

9. At this stage, please upload your manuscript as a single, final, clean version that does not contain any tracked changes, comments, highlights, strikethroughs or text in different colours. All relevant tables/figures/additional files should also be clean versions. Figures (and additional files) should remain uploaded as separate files.

Response: We have done accordingly.

2. Reviewer reports: Jason Eriksen, Ph.D. (Reviewer 2): I appreciate the responsiveness of the Authors to the earlier critiques. I believe that the authors have addressed these concerns in the current version; and the manuscript is substantially improved and reads well. I have no additional concerns at this time.

Response: Thank you very much for your comments. We are delighted to hear that we have met up your concerns by correcting and improving our manuscript.