Author's response to reviews

Title: Deltamethrin induced neurotoxicity and its attenuation by vitamin E in rats

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Author's response to reviews:

Cover letter
I have the pleasure to submit our manuscript under title "Vitamin E attenuates neurotoxicity induced by deltamethrin in rats" to your respectable journal.

Type of paper: research article.

Manuscript word count: 5122

First reviewer comments

1. More details are needed for the abstract
Authors comment: The abstract is improved and more details were included and lighted by red color.

2. It would be better to explain the mechanism of neurotoxicity, vitamin E and their relation in introduction instead of conclusion.
Authors comment: The neuroprotective effect of vitamin E was explained in more details and lighted by red color.

3. It would be better to explain DNA damage assay extensively. For the Table of results, statistical comparison between the groups is needed.
Authors comment: The DNA fragmentation assay was explained extensively in material and method section and lighted by red color. We included figure for DNA fragmentation of agarose gel electrophoresis and named as figure (1a) and also replaced the table for DNA fragmentation percentage by figure (1b) and all groups were compared together.

5. For better expression of Table 2 (Effect of DM treatment on DNA damage and protective influence of VE supplementation) and Table 3 (Real-time PCR Quantitation of mRNA expression level of CYP2E1, TP53 and COX-2 in brain tissue) values should be given as figures not as tables.
Authors comment: We replaced table by figures for each gene (figure 2a 2b and 2c).

6. There could be more literature in the conclusion for Vitamin E and DM in order
to explain their effects on neurotoxicity.
Authors comment: We explained this point and lighted it by red color.

7. The references are not in harmony with the expression rules. They must be corrected before publish.
Authors comment: The references were revised and corrected.

The second reviewer comments

1. There are a lot of typing errors in the text. Please revise the manuscript for English and grammar.
E.g. Affiliation section
Line 16: pre apoptotic > pre-apoptotic
Line 34: domestics animals > domestic animals
Line 36: routs > routes
Line 160: the oxidative > The oxidative
Authors comment: The whole text is paraphrased.

2. Materials and Methods section: This section should be explained in details. For example, the method of DNA damage assay is not clear and Reference 22 is about nitrate and nitrite analysis not DNA damage. In addition, Real-time PCR equipment is not mentioned correctly. The references of this section are in wrong order.
Authors comment: the DNA fragmentation was explained in details and references were corrected and lighted by red color.

4. Results section: The results should be explained in details. The numbering of Tables is incorrect. The results of mRNA expression levels could be presented as a graph.
Authors comment: the results were explained in more details and the table for real time was replaced by graphs for the 3 studied genes.

5. Discussion section: The discussion of manuscript should be improved. Authors could have emphasized the connection between their results and recent literatures. Limitation of the study is not indicated.
Authors comment: the discussion is improved and effect of neuroprotective effect of vitamin E was more explained and lighted with red color.

6. References: The references should be revised. Formats of the references are not common and proper for publishing. Reference 5 should be controlled again. This reference is not found in literature database. Instead of Reference 2, original publication should be cited for WHO reports. References are in wrong order.
Authors comment: all references were corrected and formatted according to journal requirement, Reference 2 was replaced