

### Review Form 3

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| Journal Name:            | <a href="#">Asian Journal of Research and Reports in Neurology</a>   |
| Manuscript Number:       | Ms_ AJORRIN_128814   |
| Title of the Manuscript: | EFFECT OF ANTIOXIDANT VITAMINS AND MINERALS SUPPLEMENTATION ON SOD, GPX, AND CAT GENES IN INDUCED ACUTE ISCHAEMIC STROKE ALBINO RATS |
| Type of the Article      |  |

#### **PART 1: Comments**

|   | Reviewer's comment   | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|---|--|---|
| <b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b> | This manuscript highlights the potential use of antioxidant vitamins and minerals supplementation, a natural therapeutic agent for managing brain ischemia-induced oxidative stress. By demonstrating significant reductions in oxidative stress and improvements in antioxidant levels in ischemic albino rats, the study contributes to the growing body of research on preventing ischemic damage. However, further experimental studies would be necessary to validate these findings fully. |   |
| <b>Is the title of the article suitable?<br/>(If not please suggest an alternative title)</b>   | I suggest the following title, " <b>Effect of Antioxidant Vitamin and Mineral Supplementation On Antioxidant Défense In Acute Brain Ischemia in Albino Rats</b> "  |   |

### Review Form 3

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| <p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p> | <p>The article's abstract is ambiguous, specifically in grouping animals. It needs to be rewritten. It did not cover the key elements of the study, including the (during brain ischemia, the route of supplement administration, the gender of rats, and the time of administrated drugs). Some words, such as genes, must be removed and changed to the levels. Also, an abbreviation (RDA) needs to be defined.</p>   |  |
| <p><b>Is the manuscript scientifically, correct? Please write here.</b></p>   | <ol style="list-style-type: none"> <li>1. <b>The introduction section</b> is lengthy; I recommend shortening it for clarity. The last paragraph is redundant and suggested to be deleted. The research question is not mentioned in this section.</li> <li>2. The "Study Area" <b>section in the material and methods</b> appears unnecessary. The gender of the studied rats is unclear and should be mentioned in the manuscript. It is unclear what the recommended daily allowance (RDA) supplementation refers to in the manuscript; please specify this clearly in your text. The route of supplement administration to the rats is unclear, and the duration of the ischemic period is also not mentioned in the manuscript. The word "genes" in the abstract, as well as materials and methods, is ambiguous. I suggest changing it to other suitable words.</li> <li>3. The research results were not presented in the "<b>Results</b>" <b>section</b> of the manuscript; they were only included in a single table. Please ensure the results are clearly stated in the "Results" section. I recommend using charts to enhance reader comprehension.</li> <li>4. The discussion section is lengthy; I suggest shortening it and omitting the p-values.</li> </ol> <p>Why didn't the authors measure antioxidants in brain tissue? I suggest they should be measured in brain tissue as well.</p> <p>Why didn't the authors use aspirin in other groups along with the supplements?</p> |  |
| <p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>                         | <p>The number of references is extensive. Please reduce their quantity and include some from recent years, such as 2024.</p>   |  |
| <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>   | <p>Yes, but the language aspect of this manuscript needs improvement. There are some grammatical errors.</p>   |  |
| <p><b>Optional/General</b> comments</p>   | <p>Please consider my comment on improving the manuscript.</p>   |  |

### **PART 2:**

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|  | <p><b>Reviewer's comment</b></p>  | <p><b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p> |
| <p><b>Are there ethical issues in this manuscript?</b></p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> |   |

### **Reviewer Details:**

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|---|---|
| <p>Name:</p>                                | <p><b>Fezkeh Hosseinzadeh</b></p>                 |
| <p>Department, University &amp; Country</p> | <p><b>University of Medical Science, Iran</b></p> |