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| Journal Name: | [**Asian Journal of Research and Reports in Neurology**](https://journalajorrin.com/index.php/AJORRIN) |
| Manuscript Number: | **Ms\_AJORRIN\_133606** |
| Title of the Manuscript: | **Neurodegenerative Effects of Soot Particulate Matter Inhalation on The Cerebral Cortex of Male Wistar Rats** |
| Type of the Article |  |

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| **PART 1: Comments** |
|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **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.** | **The article includes valuable information about the effect of oxidative stress on nervous system for conducting many studies. The article contains information that is useful to many researchers in several specializations such as Toxicology, physiology, histology, and others** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **●The aim is clear****●The title is informative and relevant**The title is informative and relevant, and the aim of the study is clear. It need change (Effects of Soot Particulate Matter Inhalation on The Cerebral Cortex in Male Wistar Rats ) |  |
| **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.** | * **the research is clearly outlined**
* **the research is justified given what is already known about the topic**
 |  |
| **Is the manuscript scientifically, correct? Please write here.** | * **All previous studies are showed from multiple angles and placed into context without being over- interpreted**
* **It is answer the aims of the study**
* Overall, the review of this study was successful in understanding the current study

The conclusion was addressed aims and summarised main idea of this study |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **The references are:*** **Relevant**
* **Recent**
* **Referenced correctly**
* **appropriate key studies are included**

The references are relevant and recent |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | English language was a good quality of the article suitable for scholarly communicationsSome sentences was not clear so the scientist must be modify it |  |
| **Optional/General** comments | * **The current study was design appropriate to the aim**
* **this study adding to what was already known on this topic**

**Neurodegenerative Effects of Soot Particulate Matter Inhalation on The****Cerebral Cortex of Male Wistar Rats** **Title: The title is clear and directly related to the content of the study. However, it****could be more specific. Instead of " Effects of Soot Particulate Matter Inhalation on The** **Cerebral Cortex in Male Wistar Rats ".****Abstract:** **Conclusions section was missing in abstract, and it could explicitly state the****significance of the findings for male and female health and the need for further****research.****Keywords:****Keywords article could be more specific such as histological indicators, oxidative****stress, pollutants.****Introduction****Clarity and Structure: The introduction is quite abbreviation and could benefit from****better organization and clarity. Consider breaking down the information into****sub-sections such as mention how the pollutant under study affects mechanism of****nervous damage.** **Use of Abbreviations: There are several abbreviations that are not defined before their****first use. Please introduce all abbreviations when they first appear in the text.****Context and Justification: While this introduction provides information about the****many pollutants, it lacks a clear statement on why this study is important and what****gap in the literature it aims to fill. As a reviewer, I would recommend the authors to****provide a clear rationale for the study and articulate the research question or objective****of the study towards the end of the introduction.****Contextual Detail: For the review, the authors could provide more detail about how****soot on human health in male and female, and the implications of these changes for****the functioning on other system****The researcher did not explain how he estimated the concentration of soot in the****pollutants to which the animal was exposed, nor did he explain the mechanism he****used to dissect the animal to obtain the brain.****Results displays: The way the results were displayed was correct****Discussion: Many sentences should be rephrased as they are not clear in meaning.****Reference: The APA way must be followed in writing reference**The study was designed appropriate to the aim of the study. However, there are some points that the authors should mention, including ethical considerations, limitations of this study. Additionally, more explanations require about relation of the Particulate Matter that used in this study with other pollutants and compares with previous studies*The manuscript titled "Neurodegenerative Effects of Soot Particulate Matter Inhalation on The Cerebral Cortex of Male Wistar Rats’’ Overall, the study presents valuable insights . However, I have a few suggestions that included in a draft version of the manuscript, addressed to the authors. I believe would enhance the clarity and robustness of the research. I would like to acknowledge the author for their in-depth review of the literature and the overall quality of the manuscript. With suggested amendments, I believe this study has the potential to make a significant contribution to the field. I**appreciate your interest in my comments*. |  |

PART 2:

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|  | **Reviewer’s comment** | **Author’s comment** |
| **Are there ethical issues in this manuscript?** | NO | - |

**Reviewer Details:**

Wasan Abdulmunem Taha, Samarra University, Iraq