

Review of: "An Investigation of The Phytochemical Richness of Fresh Musa Paradisiaca L. (Plantain) Stem Juice and Its Anticonvulsant Potential on Pentylenetetrazole (Ptz)-Challenged Rats"

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Potential competing interests: No potential competing interests to declare.

The study conducted by Sabastine Chinweike Ugwuoke et al., on the topic of **An Investigation of The Phytochemical Richness of Fresh Musa Paradisiaca L. (Plantain) Stem Juice and Its Anticonvulsant Potential on Pentylenetetrazole (Ptz) Challenged Rats**" was informative, and the objectives are more relevant to the topics.

The findings of this study have demonstrated that fresh MP stem juice could prevent convulsions by increasing the latencies and decreasing the duration of seizures in PTZ-challenged rats. Further, this study provides insight into the pharmacological evidence for folk medication, especially the use of Musa paradisiaca stem juice to manage epileptic convulsions or seizure disorders. This is the need of the hour.

The manuscript was written well and has sufficient supporting data to justify the objectives. Each section has been written with consistent information to connect with each other. Still, there are minor points which are to be considered.

1. Why was the stem part of the MP plant selected? Why were other parts of the plant excluded? Is there any specific reason behind this selection?
2. In the materials section, it has been mentioned that both Albino mice and rats were used for the animal experimental study. However, I could not find any results relating to the mice model. Kindly look into this and explain the comments.
3. Diazepam was used as the positive control. Since many similar drugs are available (eg: clonazepam), why was this drug selected?
4. The study involves the analysis of phytochemicals in the plant extract. What solvent was used to prepare the extract for the analysis of phytochemicals? There is no detailed or brief note on the sample preparation.
5. Is the 45 min. enough to induce seizure manifestation upon treating with PTZ?