

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

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**Potential competing interests:** No potential competing interests to declare.

The abstract demonstrates a proficient organizational structure. The research's significance is effectively accentuated by linking it to a recognized seizure model in rats.

The inclusion of six groups of albino rats strengthens the study's design. However, elucidating the rationale behind the selection of varying concentrations of MP stem juice for Groups IV, V, and VI would enhance transparency.

The methodology, encompassing PTZ administration and treatment duration, is meticulously detailed. Yet, providing additional information on the phytochemical screening methods would enhance the comprehensiveness of the study.

The incorporation of a lethality test for safety assessment is commendable. Further enriching this aspect by detailing specific observations or parameters considered during the safety evaluation would be advantageous.

The identification of bioactive compounds in MP stem juice is a noteworthy aspect. To bolster the discussion, a more in-depth exploration of the potential therapeutic effects of the identified compounds in the context of epilepsy could be provided.

The presentation of seizure manifestations and the influence of MP stem juice on latency periods is clear. However, incorporating statistical measures for significance, such as p-values, would add robustness to the findings.

The conclusion aptly summarizes the study's outcomes, emphasizing the potential of MP stem juice in preventing convulsions. Enhancing this with a brief discussion on the broader implications of the results and acknowledging any study limitations would be beneficial.

Additionally, introducing a sentence or two proposing potential avenues for future research or practical applications of the study findings would be valuable.

In summary, the abstract is well-structured and serves as a solid foundation for the research. Addressing the outlined points would enhance its clarity and impact while ensuring scientific rigor.

