

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.

In this study, the authors determined the efficacy of *Musa paradisiaca* L. (MP) stem juice for treating epileptic convulsions using a pentylenetetrazole (PTZ)-induced seizure model in rats. In this study, the following observations may be considered:

1. The number of animals per group (n=4) is insufficient to achieve statistically significant data. Whether the authors performed any power analysis for this is unclear.
2. Authors have mentioned under the section "Equipment and chemicals," "The equipment and chemicals used for this study were of analytical grade. Some of them were obtained from the Biochemistry Department, University of Nigeria, Nsukka, while others were purchased from the Springboard Research Laboratory, Awka, Anambra State, Nigeria." Instead of this sentence, the authors should mention all instruments used and their make. Similarly, they should provide the names of important chemicals used and their sources.
3. The authors used MP stem juice in crude form. In herbal products, there is a high variation in active ingredients from time to time, from part to part, and from season to season. At least, the metabolomic characterization of MP stem juice is essential here.
4. The data presented in this study is very preliminary, and more studies are essential.