Qeios

Peer Review

Review of: "Evaluation of Antidiabetic Potential of Gymnema Sylvestre and Metformin Combination in Streptozotocin-Induced Diabetic Rats"

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The study Evaluation of Antidiabetic Potential of Gymnema Sylvestre and Metformin Combination in Streptozotocin-Induced Diabetic Rats considered the effect of Gymnema sylvestre on biochemical parameters in STZ-induced diabetes.

1. The title does not capture the content of the manuscript. Only biochemical parameters were explored, and this should be reflected in the study.
2. Gymnema sylvestre was written in many ways. Authors should unify the spelling of the extract and its abbreviation.
3. The phytochemical profile of Gymnema sylvestre should be included in the manuscript. In what form did the rats receive this?
4. Table 1 should be amended, as it has two columns depicting values for pre-treatment fasting blood glucose on day 0.
5. Table 2 has no values included for the normal control group. The same issue applies to figures 3, 4, and 5.
6. Results are better expressed in text and not in bullet points.
7. There are no callouts in the text representing the tables and figures. Figures and tables are not mentioned in the text that discusses the results.
8. Since authors purported that G. sylvestre balances insulin production, the study would have benefited from a histological analysis of the pancreas.

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9. The discussion is shallow and does not explore the mechanisms by which G. sylvestre works, nor does it compare the study with previous research carried out using this extract, nor does it attempt to explain why a combination with metformin was not as effective.

Declarations

Potential competing interests: No potential competing interests to declare.