

Peer Review

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

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This manuscript presents the findings from an investigation into the antidiabetic potential of extracts from *Gymnema Sylvestre* in relation to the commercially available drug, Metformin, in streptozotocin-induced diabetic rats. The data presented are in line with the studies done and aim to support an alternative form of therapy for patients who suffer from Type-2 diabetes.

While the data support modest attenuation of the FBG when extract therapy was provided, the ameliorative effect of metformin was far superior to that of the extract. Further to this, while combinations of the extract with metformin reveal appreciable decreases in the FBG, it is unclear if the observed therapeutic effect was due to independent or synergistic effects. Additionally, it is speculative which compound in the extract was responsible for the antidiabetic effect, and the only way to confirm this is by proper separation, characterization, and assay evaluation of each component. Only then can a proper comparison, in terms of dosage and mechanism of action, be done with the allopathic competitor.

The work shows promise! However, further, more robust studies are highly recommended.

Declarations

Potential competing interests: No potential competing interests to declare.