Potential Therapeutic Effect of Moringa Oleifera on Tongue papillae of Diabetic Albino Rats

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Abstract

Background: The tongue is the second most commonly affected oral site after periodontal tissues in diabetes. Diabetic complications are mainly attributed to oxidative stress and side effects from long term use of drugs to treat diabetes. MO has been reported to be a valuable source of natural antioxidants. Materials and methods: this study comprised three groups; control, diabetic and MO treated groups. The experiment was terminated after fourteen days. Evaluation of the rats was done by measuring blood glucose levels, as well as, histological assessment of the tongue tissue by H&E and SEM. Results: There was a significant reduction in blood glucose levels and histological evaluation revealed improvement in the condition of the tongue mucosa in the MO treated group compared to the diabetic group. Conclusion: MO has a hypoglycemic effect on the blood glucose level of diabetic albino rats. MO may partially reverse some of the detrimental effects hyperglycemia has on the tongue mucosa of diabetic rats.

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