

Indigenous anti-ulcer activity of *Musa sapientum* on peptic ulcer

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ABSTRACT

Background Peptic ulcer disease (PUD), encompassing gastric and duodenal ulcers is the most prevalent gastrointestinal disorder. The pathophysiology of PUD involves an imbalance between offensive factors like acid, pepsin and defensive factors like nitric oxide and growth factors. The clinical evaluation of antiulcer drugs showed tolerance, incidence of relapses and side-effects that make their efficacy arguable. An indigenous drug like *Musa sapientum* possessing fewer side-effects is the major thrust area of present day research, aiming at a better and safer approach for the management of PUD. **Material and Methods** The unripe plantain bananas (*Musa sapientum*) were shade-dried, powdered and used for phytochemical analysis and as antiulcer drug. In our present study Group I rats served as control and were treated with saline, Group II was indomethacin-induced ulcerated rats, Group III received aqueous extract of *Musa sapientum* along with indomethacin and Group IV received esomeprazole along with indomethacin for 21 days. The anti-ulcerogenic activity was investigated by performing hematological, mucosal, antioxidant profile in comparison with the standard drug esomeprazole. **Results** Our findings from High - Performance Thin Layer Chromatography (HPTLC) analysis showed that *Musa sapientum* has an active compound a monomeric flavonoid (leucocyanidin) with anti-ulcerogenic activity. Results were expressed as mean $\pm$ SD. All our results are in congruous with the results of standard drug esomeprazole. **Conclusion** It could be clearly concluded that administration of the aqueous extract of *Musa sapientum* at the dose used in this study tends to ameliorate ulcers. Its use in indigenous medicine should be scientifically scrutinized with further research.

KEYWORDS

Esomeprazole . gastric mucosa . leucocyanidin . *Musa sapientum*

REFERENCES

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