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## Anti-ulcerative effect and antioxidant effects of *Garcinia kola* Heckel

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**Objectives:** Peptic ulcer (PU) is a condition in which the gastric lining breaks down, causing bleeding. This study investigates the anti-ulcer effects of *Garcinia kola* seed infusate in a rat model.

**Material and methods:** *Garcinia kola* seeds were harvested, freeze-dried, ground, and stored in the freezer. Ulcers were induced using 96% ethanol. After 2 h of ulcer formation, they received; 20 mg/kg omeprazole for group 2 and 200, 400, and 800 mg/kg body weight *Garcinia kola* infusate by oral gavage for 3 days. On day 4 the stomachs were removed and analysed. Levels of oxidative stress markers were assessed.

**Results:** There was no evidence of acute or subacute toxicity of the infusate. Histological analysis of the stomach showed a healing effect of the infusate in both male and female rats. With regard to nitrite malonyl dialdehyde and reduced glutathione levels, there was no statistical difference between the rats of both sexes receiving *Garcinia kola* compared to the normal rats. The catalase level tended to be similar between treated and untreated females. The treated male with both *Garcinia kola* and omeprazole tended to normalize the level of catalase when compared to the normal animal.

**Conclusion:** The *Garcinia kola* seed infusate was found to possess anti-ulcer and antioxidant properties

### Biography

Marion Mambo Tenda is a pharmaceutical sciences researcher at the University of Douala, working within the Microbial Product Research Unit to explore medicinal plant applications. Her research centers on the therapeutic potential of natural compounds, particularly in gastrointestinal protection and oxidative stress modulation. She actively contributes to advancing pharmacological innovations in Cameroon's healthcare research landscape

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