

Antiulcer Activity of Methanol Extract of *Erythrina indica* Lam. Leaves in Experimental Animals

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ABSTRACT

Gastric ulcer is one of the most prevalent gastrointestinal disorders, which affects approximately 5-10% of people during their life. In recent years, abundant work has been carried out on herbal medicine to clarify their potential efficacy in gastric ulcer prevention or management. Here, present study was carried out to investigate antiulcer activity of methanol extract of *Erythrina indica* (family: Fabaceae) leaves in pylorus ligated and indomethacin induced ulceration in the albino rats. Preliminary methanol extract of *E. indica* was subjected to the acute oral toxicity study according to the OECD guideline no. 423. Based on which, three dose levels i.e. 125, 250 and 500mg/kg were selected for the further study. In pylorus ligation induced ulcer model, various parameters were studied viz. gastric volume, pH, total acidity free acidity, and ulcer index. Ulcer index and percentage inhibition of ulceration was determined for indomethacin induced ulcer model. Ranitidine at 100mg/kg was used as the standard drug. Pretreatment of methanol extract of *E. indica* leaves showed significant ($P<0.01$) decrease in the gastric volume, total acidity and free acidity. However, pH of the gastric juice was significantly ($P<0.05$) increased only at higher dose, 500mg/kg. It showed also significant ($P<0.01$) decrease in number of ulcers and ulcer score index in pylorus ligation and indomethacin induced ulceration models. The methanol extract of *E. indica* leaves possess significant antiulcer properties in a dose dependent manner. In conclusion the antiulcer properties of the extract may be attributed to the polyphenolic compounds that are present in it.

KEYWORDS

Antiulcer activity . *E. indica* . Indomethacin, Ranitidine

REFERENCES