

Evaluation of anti-ulcer activity of *Ardisia crispa* Thunb. D.C

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ABSTRACT

Ardisia crispa Thunb D.C (Myrsinaceae), has long been used in treating various ailments among the local villagers. The objective of this study was to investigate experimentally the possible anti-ulcer activity of *Ardisia crispa*. The effect of hexane fraction of root of *Ardisia crispa* (ACRH) was evaluated in experimental ulcer models with necrotizing agents ie ethanol, NaCl, HCl, NaOH and also COX-1 inhibitor namely indomethacin as inducers. Four doses ie 10, 30, 100 and 300 mg/kg were selected for further study. Ulcer effects were determined by counting the total surface area of lesion in mm². Results showed that ACRH provided significant protection in various experimental models used. Pretreatment with ACRH at all doses (10,30,100 and 300 mg/kg) has produced significant inhibition of gastric mucosal damage induced by 80% EtOH and 25% NaCl, whilst at 30, 100 and 300 mg/ kg, ACRH significantly reduced the lesion formation in ulcer induced by 0.6 M HCl, 0.2 M NaOH and 30 mg/kg indomethacin. The present study indicates that the hexane fraction of *Ardisia crispa* (ACRH) exhibits significant anti-ulcer effect.

KEYWORDS

Ardisia crispa . anti-ulcer . Ethanol-induced ulcer . Indomethacin-induced ulcer . necrotizing agents

REFERENCES

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