

Anti-inflammatory and anti-hyperalgesic effects of *Ardisia crispa* Thunb. D.C

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-inflammatory and anti-hyperalgesic properties of *Ardisia crispa*. The effect of hexane fraction of ethanolic extract of root of *Ardisia crispa* (ACRH) was evaluated in experimental models of pain and inflammation. The root extract at 3-300 mg/kg showed significant inhibition in carrageenan-induced oedema in rats with a maximum of 93.34% at 300 mg/ kg. There was a significant ($p < 0.001$) inhibition in carrageenan-induced hyperalgesia with ACRH 30, 100 and 300 mg/kg. The anti-inflammatory observed with the extract were comparable to that of standard. The present study indicates that the hexane fraction of *Ardisia crispa* (ACRH) exhibits significant anti-inflammatory and anti-hyperalgesic effects.

Keyword: Anti-hyperalgesic; Anti-inflammatory; *Ardisia crispa*; Carrageenan-induced hyperalgesia; Carrageenan-induced oedema