

The analgesic effects of the medicinal plant *Elettaria cardamomum* fruit extract

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Background

Previous studies have shown that *Elettaria cardamomum* can be effective in pain management. According to this, the present study investigated the effect of hydroalcoholic extract of *Elettaria cardamomum* on the pain threshold in male rats.

Methods

In this experimental study, 36 male rats weighing 200-250 gr. were divided to 6 groups (n= 6): control (no treated) group, groups treated with 100, 200 and 400 mg/kg/body weight of *Elettaria cardamomum* fruit hydroethanolic extract, morphine (1mg/kg) treated group, and naloxone (2mg/kg/body weight) treated group. Pain threshold was measured by tail-flick method in groups. Data were analyzed using ANOVA.

Results

200 and 400 mg/kg body weight of *Elettaria cardamomum* fruit hydroethanolic extract significantly increased pain threshold compared with the control group.

Conclusion

The results of this study showed that *Elettaria cardamomum* fruit extract has antinociceptive effects and has a capacity to be applied in pain management.