

عنوان مقاله:

Analgesic effect of the aqueous and ethanolic extracts of clove

محل انتشار:

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خلاصه مقاله:

Objective: The beneficial effects of clove on toothache have been well documented. We have also previously shown the analgesic effects of clove essential oil. The present work was done to investigate the analgesic effects of the aqueous extract of clove using hot plate test. The possible role of opioid receptors in the analgesic effects of clove was also investigated using naloxone. Materials and Methods: Ninety male mice were divided into nine groups: (1) Saline, (2-4) Aaqueous (Aq 50, Aq 100, and Aq 200) groups which were treated with 50, 100, and 200 mg/kg of aqueous extract of clove, respectively, (5-7) Ethanolic (Eth 50, Eth 100, and Eth 200) groups which were treated with 50, 100, and 200 mg/kg of ethanolic extract of clove, respectively, and (8-9) Aq 100- Naloxone and Aq 200- Naloxone which were pretreated with 4 mg/kg of naloxone before injection of 100 or 200 mg/kg of the aqueous extract. The hot plate test was performed as a base record 10 min before injection of drugs and consequently repeated every 10 minutes after the injection. Results: The maximal percent effect (MPE) in the animal groups treated with 50, 100, and 200 mg/kg of aqueous extract was significantly higher than the control group. Pretreatment with naloxone reduced the analgesic effects of both 100 and 200 mg/kg of the aqueous extract. Administration of all three doses of the ethanolic extract also non-significantly increased the MPE. Conclusion: The results of the present study showed that aqueous extract of clove has analgesic effect in mice demonstrated by hot plate test which is reversible by naloxone. The role of opioid system in the analgesic effect of clove might be suggested. However, more investigations are needed to elucidate the exact mechanism(s).

کلمات کلیدی:

Analgesia, Clove, Extract, Hot plate, Mice, Naloxone

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