ELUCIDATION OF ANALGESIC ACTIVITY OF HYDROETHANOLIC EXTRACT OF EUPHORBIA NERIFOLIA LEAVES IN SWISS ALBINO MICE

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Abstract: The study was carried out to elucidate the analgesic activity and the possible mechanism(s) of action of hydroethanolic extract (HEE) of Euphorbia neriifolia (EN) leaves using Swiss albino male mice (15-20g). The peripheral analgesic activity of HEE of EN (150, 300 and 400mg/kg body weight, oral) was studied using acetic acid induced abdominal constriction method. The central analgesic activity of HEE of EN was studied using tail immersion and hot plate method in mice. The principle findings of EN at the dose of 150, 300 and 400mg/kg p.o. showed significant (p<0.01) decrease in acetic acid-induced writhing, whereas significant (p<0.05 and p<0.01) increase in latency to tail flick in tail immersion method and elevated mean basal reaction time in hot plate method was also observed. Overall, results demonstrated that HEE of EN possesses significant analgesic activity which confirms the traditional claims of EN mentioned in Ayurveda.

Keywords: Analgesic activity, Aspirin, Albino mice, Acetic acid, Euphorbia neriifolia

REFERENCES


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