

Poster-110

Analgesic activity on two *Cleome* species

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Abstract

Cleome brachycarpa and *Cleome scaposa* are used traditionally in Northern part of Nara Desert, Sindh and Tehsil Isakhel, District Mianwali, Pakistan for the management of pain and inflammation. The present work assesses the pain-killing properties of the methanolic extracts of two *Cleome* species by applying pressure induced pain model. The extracts at the dose of 250 mg/kg, i.p. were tested and compared with standard (20mg/kg, i.p. aspirin). The force constantly increased on the rat paw, the point at which rat can't bear further pressure and starts struggle to free paw was taken as nociceptive response. The readings were taken before and after 1, 2 and 3hr following drug administration. Analgesic response continuously increases but decline after 3hr in each case. The obtaining results are comparable with the standard drug. The extract of *C. brachycarpa* showed more analgesic activity than *C. scaposa*. These findings are in accordance with the traditional use of the plant and indicate that both *Cleome* species are potent source of analgesic principles. Literature search indicated that triterpenoids are reported from these species and may be responsible for this effect. However, study of compound related activity is further required.