عنوان مقاله:

Effect of ethanolic extract of Safflower on naloxone-induced morphine withdrawal signs in mice

محل انتشار:

دوفصلنامه طب گیاهی پیشرفته, دوره 2, شماره 2 (سال: 1395)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

Background and aims: Safflower (Carthamus tinctorius L.)from Asteraceae family has different biological activities including analgesic, antidepressant, anti-inflammatory, antispasmodic and neuroprotective effects. This study designed to evaluate its effect on naloxone -induced morphine withdrawal signs. Methods: In this experimental study, male NMRI mice (Υ۵-Ψο g) were randomly divided into Δ groups of Λ: control groups received morphine and normal saline (10ml/kg) and other groups received fluoxetine (Υοmg/kg) and different doses of ethanolic extract of Safflower (100,Υο and Fο mg/kg). Morphine dependency was induced by intraperitoneal (i.p.) injection of increasing doses (Δο-ΥΔ mg/kg) of morphine. Withdrawal signs were elicited by naloxone (Δmg/kg, i.p.) and number of jumpings and also presence of climbing, writing, wet dog shakes, teeth chattering, diarrhea, grooming and rearing during a Ψο min period. Results: The ethanolic extract at all doses (100, Υο and Fο mg/kg, i.p., p<0.01) and fluoxetine (Υοmg/kg, i.p., p<0.01) significantly inhibited the number of jumps. Additionally, all doses of extract reduced the grooming and writing (p<0.0Δ).Only Υο and Fο mg/kg of extract reduced the other checked signs including climbing, rearing and teeth chattering. All doses of extract couldn't reduce wet dog shake and diarrhea significantly (p>0.0Δ). Fluoxetine significantly inhibited the other signs except wet dog shakes and diarrhea. Conclusion: These findings indicated that Safflower extract has therapeutic potential in management of opiate withdrawal signs and this is comparable to the .effect of fluoxetine. However, further studies need for clarify their exact mechanism of action

كلمات كليدى:

Safflower, Morphine, dependence, withdrawal signs, naloxone

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