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Effect of Marrubium vulgare L. aerial parts aqueous and ethanolic extracts on morphine withdrawal syndrome in mice

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Abstract

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The effect of intraperitoneal injection of aqueous and ethanolic extracts of *Marrubium vulgare* L. (0.1, 0.5, 1.5, 2.5 g/kg) is studied on morphine withdrawal syndrome in mice. Dependence was induced using subcutaneous injections of morphine daily for three days. On the fourth day, morphine was injected two hours prior to the intraperitoneal injection of naloxone. The number of jumps during the 30 minute period after naloxone (5 mg/kg) injection was considered as measure of the withdrawal syndrome. Locomotion activity in open field test and mouse muscle relaxation and balance in Rotarod system were evaluated 30 and 60 minutes after injections. All doses reduced the number of jumping and mice balance. It also induced muscle relaxation. Only a dose of 0.1 g/kg could not affect locomotion activity. In conclusion, *M. vulgare* L. can decrease the withdrawal syndrome symptoms.

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Author keywords

Marrubium vulgare L.; Morphine dependence; Muscle relaxation; Withdrawal syndrome

Indexed Keywords

EMTREE drug terms: alcohol; diazepam; *Marrubium vulgare* extract; morphine; naloxone; plant extract; unclassified drug; waterEMTREE medical terms: animal experiment; animal model; aqueous solution; article; body equilibrium; controlled study; dose response; drug effect; jumping; locomotion; male; *Marrubium vulgare*; morphine addiction; mouse; muscle contraction; muscle relaxation; nonhuman; open field test; solvent extraction; withdrawal syndrome

Chemicals and CAS Registry Numbers: alcohol, 64-17-5; diazepam, 439-14-5; morphine, 52-26-6, 57-27-2; naloxone, 357-08-4, 465-65-6; water, 7732-18-5

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