

عنوان مقاله:

The effect of hydro-ethanolic extract of sage plant(*Salvia officinalis* L.) on the expression of place preference induced by morphine in mice

محل انتشار:

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نویسندگان:

Amir Abbas Barzegari - Department of biology, Faculty of Basic sciences, University of Maragheh, Maragheh, Iran

Morteza Mortazavian

خلاصه مقاله:

Morphine is an important drug in hospitals. However, euphoric effects of morphine can lead to abuse of it and addiction to the important alkaloid. The aim of this study was to investigate the effect of hydro-alcoholic extract of sage (*Salvia officinalis*) on the euphoric effects of morphine. Twelve groups of female mice ( $n=8$ ) were used for the experiments. A conditioned place preference (CPP) method was used to investigate the euphoric effects of morphine and sage. Subcutaneous administration of morphine (0, 5, 10 and 15 mg/kg) induced a conditioned place preference in laboratory mice. Intraperitoneal administration of sage extract (0, 50, 100 and 150 mg/kg) had no significant effect on the induction of conditioned place preference. Administration of sage extract one hour before the start of the test failed to change the expression of the conditioned place preference of the effective dose of morphine; despite this, the high dose of the plant extract (150 mg/kg) decreased the locomotor activity in the animals. As a result, hydro-ethanolic extract of sage has no significant effect on the expression of conditioned place preference caused by morphine.

کلمات کلیدی:

Morphine, Sage, Reward, Conditioned place preference

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