

عنوان مقاله:

Effects of Valeriana Officinalis Extract on the Seizure Induced by Picrotoxin in Mice

محل انتشار:

مجله دانشگاه علوم پزشکی کرمان، دوره 11، شماره 4 (سال: 1383)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Neurological effects of Valeriana officinalis have been recognized for many years. In this study, the anticonvulsant activity of methanolic extract of the plant were investigated in mice. Picrotoxin with doses of 6 and 12.5 mg/kg were used for induction of seizures. The effects of different doses of methanolic extract of the plant on the variation of beginning time of seizures, the incidence of tonic and clonic seizures and mortality rate were determined. The beginning time of tonic seizures induced by picrotoxin (6 & 12.5 mg/kg I.P.) were delayed significantly in group which received extract (50 mg/kg I.P.) 20 min. before picrotoxin administration. Latency of beginning time of tonic seizures in mice which receive picrotoxin 6mg/kg were increased significantly from 10.58 min to 15 min ($P < 0.05$) and in case of 12mg/kg of picrotoxin from 5.87 to 10.82 min. ($P < 0.01$). The incidence of clonic seizures and mortality rate were decreased in this group of animals ($P < 0.05$, $P < 0.01$). The results indicated that valerian extract may be effective on generalized tonic, clonic and tonic - clonic seizures and the dose of 50 mg/kg was enough to produce effective concentration for anticonvulsive activity of the extract in mice.

کلمات کلیدی:

Valeriana officinalis, Seizure, Picrotoxin, Mice

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