

عنوان مقاله:

Anticonvulsant Effect of Hydroalcoholic Extract of Scrophularia Striata Boiss. on Pentylenetetrazol-Induced Seizure in Mice

محل انتشار:

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خلاصه مقاله:

Background & Aims: Epilepsy is a central nervous system disorder that appears as sudden convulsions, and transient, repetitive and unpredictable movment, with sensory-motor and autonomic sources. Nowadays, patients with epilepsy use various types of chemical drugs which turn out side effects and cause drug resistance in long-term use. Ease of using herbal plants and their public acceptance have provided them appropriate for pharmacological purposes. Scrophularia striata Boiss., plant grows in areas of Ilam in Iran, has been experimentally used in the treatment of various diseases. In this experiment, the effect of hydroalcoholic extract ofthis plant was studied on pentylenetetrazolinduced seizures. Methods: ۴. male mice (ΥΔ-Ψ. q) were randomly selected and divided into five groups of Λ, including a control group (receiving saline and pentylenetetrazol) and F treatment groups (receiving the extract doses of 100, ۳۰۰, ۶۰۰, ۹۰۰ mg/kg). ۳۰ minutes after interaperitoneal administration of saline and extract, pentylenetetrazol (۸۰ mg/kg) was injected. The mice were immediately transferred to a special cage and convulsive behaviors were recorded by a camera during the Yo minutes. Then, the different phases ofseizure were evaluated. Results: Extract injection in dose of 100 mg/kg had no significant effect on onset time of different levels of seizure. But, extract injection in doses of 400 and 9.0 mg/kg delayed the onset time of tonic, clonic and tonic-clonic seizures. The extract administration in all treatment doses also reduced duration time of tonic and tonic-clonic seizures and decreased the numbers of imbalances and fallings in different seizure phases. As well, the extract decreased mortality to zero. Conclusion: Our study indicated that the hydro-alcoholic extract of Scrophularia striata Boiss. has an appropriate anticonvulsant effect .and it seems that the future studies are necessary to separate its ingredients and understand its mechanism of action

كلمات كليدي:

Scrophularia striata Boiss, Anticonvulsant effect, Pentylenetetrazol, Seizure

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