

## عنوان مقاله:

Folic Acid and Coenzyme Q1. Ameliorate Cognitive Dysfunction in the Rats with Intracerebroventricular Injection of Streptozotocin

# محل انتشار:

مجله علوم پایه پزشکی ایران, دوره 15, شماره 2 (سال: 1391)

تعداد صفحات اصل مقاله: 6

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### خلاصه مقاله:

Objective(s) The present study aimed to investigate the effects of a fat soluble antioxidant, coenzyme Q10 (CoQ10) and folic acid on learning and memory in the rats with intracerebroventricular injection of streptozotocin (ICV-STZ), an animal model of sporadic type of Alzheimer's disease. Materials and Methods The lesion groups were injected bilaterally with ICV-STZ (1.6 mg/kg b.wt., in normal saline). In the treated groups, rats received folic acid (f mg/kg; i.p.) or CoQ1o (10 mg/kg; i.p.), either alone or together, for Y1 days. Passive avoidance learning test was used for evaluation of learning and memory. Results The results showed that learning and memory performance was significantly impaired in the rats with ICV-STZ (P< o.ool), however CoQlo and folic acid, either alone or together, prevented impairments significantly (P< ....), as there was not any significant difference between these treated lesion groups and control group. Conclusion The present results suggest that CoQ1o and folic acid have therapeutic and preventive .effects on cognitive impairments in Alzheimer's disease

کلمات کلیدی: Alzheimer disease, Coenzyme Q۱۰, folic acid, Passive avoidance learning, Streptozotocin

لینک ثابت مقاله در پایگاه سیوپلیکا:

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