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**Short communication**

## Anticonvulsant effect of amiloride in pentetrazole-induced status epilepticus in mice

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**Abstract:**

Inhibition of sodium hydrogen exchangers (NHE) has been shown to diminish seizure activity in various *in vitro* and *in vivo* models of epilepsy. In the present study, we examined the effect of amiloride, a sodium hydrogen exchanger inhibitor, against pentetrazole (PTZ)-induced status epilepticus (SE). The study was conducted in mice and status epilepticus was induced by administering *ip* 50 mg/kg of phenytoin followed 2 hour later by PTZ, 100 mg/kg *sc*. Amiloride produced dose-dependent protection against PTZ-induced SE.

**Key words:**

amiloride, pentetrazole, status epilepticus, sodium hydrogen exchanger, mice

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