

## Anticonvulsant Action of Flupirtine and its Interaction with Antiepileptic Drugs in Rats

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### Abstract

**Aims & objective:** To evaluate the effect of flupirtine in PTZ induced seizures in rats and study the interactions of flupirtine with some antiepileptic drugs, by using subtherapeutic doses. **Methods & Material:** The effects were assessed by methods of chemoshock (pentylentetrazol) seizures. **Results:** Flupirtine alone showed protection against chemoshock seizures. In chemoshock method combined treatment of flupirtine and diazepam exerted a much stronger protective effect than used alone. But, protection was not significant when sodium valproate, phenobarbitone, phenytoin were given together in subtherapeutic doses and compared with control, and addition of flupirtine and AED alone. **Conclusions:** Flupirtine has anticonvulsant activity and has synergistic activity with diazepam drugs in PTZA model. Extrapolation of these combinations in clinical practice is needed.