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Antiepileptic Drugs-induced Hyponatremia: Review and Analysis of 560 Hospitalized Patients

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Highlights

- Carbamazepine, oxcarbazepine and eslicarbazepine acetate were associated with hyponatremia.
- The incidence of hyponatremia induced by eslicarbazepine acetate was not statistically different from that induced by oxcarbazepine.
- Both oxcarbazepine- and eslicarbazepine acetate-induced hyponatremia occurred particularly often in elderly epilepsy patients.

Abstract

Recent evidence suggests that eslicarbazepine acetate (ESL) might be an appropriate alternative to carbamazepine (CBZ) and oxcarbazepine (OXC) due to its better safety profile. Hyponatremia may be one of the limiting safety problems in CBZ and OXC whereas it has been indicated that ESL is less sensitive for the adverse event.

Since our clinical experience is different we investigated the incidence of hyponatremia in 560 consecutive adult inpatients treated at our center in 2015 by reviewing their medical records.