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## CRITICAL REVIEW AND INVITED COMMENTARY



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## FULL-LENGTH ORIGINAL RESEARCH



## BRIEF COMMUNICATIONS

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Therapeutic drug monitoring of antiepileptic drugs (AEDs) is usually based on serum samples. In this study we investigated the correlation between saliva and serum drug concentrations at steady state in patients with epilepsy receiving lacosamide (LCM) across a wide range of doses. The relation with daily lacosamide dose and concentration in serum and saliva was also assessed. The mean LCM trough concentration in serum and saliva did not differ significantly. Serum and saliva concentrations across all samples were highly correlated. Saliva could offer great potential to monitor drug concentrations and guide LCM treatment in epileptic patients.



Intramyelinic edema, or white matter spongiosis, has been associated with vigabatrin therapy in various animal models but its role or significance in clinical studies is unknown. We conducted a neuropathological examination on an infant boy with bilateral polymicrogyria and epilepsy. He was initiated on vigabatrin, which controlled infantile spasms and continued as maintenance therapy, at age 4 months but died unexpectedly at 27 months. Autopsy showed a combination of developmental and acquired lesions. Intramyelinic edema was identical to lesions previously demonstrated in animal models on vigabatrin therapy, indicating that vigabatrin toxicity with intramyelinic edema is not restricted to animal models.

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## GRAY MATTERS