

LAMOTRIGINE (LAMICTAL) IN INTRACTABLE EPILEPSIES

The efficacy of lamotrigine (LTG) in an open, add-on, prospective study of 56 children with refractory generalized epilepsies is reported from British Columbia's Children's Hospital, Vancouver, BC, Canada. More than half had a greater than 50% reduction in seizure frequency, six children being seizure-free. Of 15 with Lennox-Gastaut syndrome, 3 were completely controlled and 8 had >50% improvement. Skin rash and an increase in seizure frequency were the most frequent side effects, occurring in 5 and 7 children, respectively. Patients receiving valproate in combination with LTG were most likely to develop rash. LTG was reintroduced alone without recurrence of rash. (Farrell K, Connolly MB, Munn R, Peng S, MacWilliam LM. Prospective, open-label, add-on study of lamotrigine in 56 children with intractable generalized epilepsy. Pediatr Neurol April 1997;16:201-205). (Respond: Dr Farrell, Division of Neurology, Dept Pediatrics, University of British Columbia, 4480 Oak St, Vancouver, BC, Canada V6H 3V4).

COMMENT. Lamotrigine may be of benefit in children with generalized seizures, including Lennox-Gastaut syndrome. Skin rash may be expected in 10%, especially those receiving higher initial doses of LMG and valproate in combination. The reintroduction of an antiepileptic drug after occurrence of a skin rash is generally contraindicated and potentially hazardous. The present and two previous reports of successful reintroduction of LTG after skin rash are exceptions to the rule. Mimms J et al, Minnesota Epilepsy Group, St Paul, MN, report one of 13 children treated with high dose lamotrigine having an allergic rash at 6 weeks, and a recurrence of rash after reintroduction of LTG (J Child Neuro Jan 1997;12:64-67).

Vigabatrin in partial seizures in children decreased seizure frequency by >50% in 70% of patients, and was particularly effective in infants with tuberous sclerosis, in a study at Hopital Saint Vincent de Paul, Paris, France. (Nabbout RC, Chiron C et al. J Child Neuro April 1997;12:172-177).

SEASONAL ONSET CHANGES IN INFANTILE SPASMS

The influence of calendar month, day length (photoperiod), and global solar radiation (GSR) on onset of infantile spasms was reviewed retrospectively using records of 76 infants at the Hospital for Sick Children, University of Toronto, Ontario, Canada. Onset frequency increased as days were shorter, with a 2.2-fold higher frequency in December/January, months with a short photoperiod and low GSR, compared to June/July. Environmental photoperiodic factors (zeitgebers) may have a role in onset of infantile spasms. (Cortez MA, Burnham WM, Hwang PA. Infantile spasms: seasonal onset differences and zeitgebers. Pediatr Neurol April 1997;16:220-224). (Respond: Dr Cortez, Division of Neurology, Hospital for Sick Children, 555 University Ave, Toronto, Ontario, M5G 1X8, Canada).

COMMENT. The frequency of infantile spasm onset is highest in the fall and winter, during months with low global solar radiation and short photoperiods. Possible causal factors suggested include seasonal variations in seizure threshold or ACTH release. Viral infections might also be a seasonal etiology.

Several factors may modify the threshold to seizures in animals and man, and seasonal variations have received little attention. Boldrey EE and Millichap JG, in a laboratory study and report of barometric pressure and