anticonvulsant effect of the ketogenic diet was unrelated to diuresis, independent of acidosis and ketosis, similar to the effects of acetazolamide, and correlated most closely with a negative balance of sodium and potassium.

ANTICONVULSANT SIDE EFFECTS

COGNITIVE EFFECTS OF PHENOBARBITAL

Neurocognitive behavior in 9 children with various epilepsies was evaluated before and at 6 months after discontinuing phenobarbital monotherapy at the Department of Child Neurology, Instituto Nazionale Neurologico "Carlo Besta;" Milano, Italy. The patients had been seizure-free for at least 2 years. All of the scores on the WISC improved and the mean Performance IQ was significantly higher after phenobarbital was withdrawn. Other tests showing significant improvement included the general information subtest on the Verbal IQ, picture arrangement on the Performance IQ, visual spatial memory, and visual-motoric and attentional skills, as measured by coding and the Trail Making test. (Riva D, Devoti M. Discontinuation of phenobarbital in children: Effects on neurocognitive behavior. Pediatr Neurol 1996;14:36-60). (Respond: Dr Riva, Department of Child Neurology, Instituto Neurologico "Carlo Besta;" 11 Via Celorio, 20133 Milano, Italy).

COMMENT. In this small number of children treated, phenobarbital appeared to have impaired attention, spatial memory, and visual/motor skills. The deficits were reversible and disappeared when phenobarbital was discontinued.

Drowsiness secondary to chronic antiepileptic drug therapy was assessed in 30 patients, using an EEG-based Awake Maintenance Task (AMT) measure, and reported from the Portland Veterans Affairs Medical Center, and Oregon Health Sciences University, Portland, Oregon. (Salinsky MC et al. Epilepsia 1996;37:181-187). Ability to maintain wakefulness was determined during a 6-min unstimulated trial. One third of AED-treated patients had >120 s of drowsiness in contrast to only 1 of 63 controls. Objective EEG drowsiness did not correlate with AED levels or performance measures. Untreated seizure patients had more complaints of lack of vigor despite absence of objective drowsiness on the AMT. Subjective reports of AED-related drowsiness may be unreliable.

LAMOTRIGINE-INDUCED SKIN RASH

Five of 68 consecutive children treated for epilepsy with lamotrigine developed a skin rash, one a Stevens-Johnson syndrome, in a report from Dalhousie University, and IWK Children's Hospital, Halifax, Nova Scotia, Canada. Two patients required intensive care. The interval between introduction of lamotrigine and the rash varied from 2 to 8 weeks. One child in whom the drug was reintroduced after 6 months had a recurrence of the rash within 30 minutes of a single small dose. In 4 patients taking concomitant therapy, the AEDs were continued during and after the lamotrigine-induced rash. (Dooley J, Camfield P et al. Lamotrigine-induced rash in children. Neurology Jan 1996;46:240-242). (Respond: Dr Joseph M Dooley, Neurology Division, IWK Children's Hospital, \$850 University Avenue, Halifax, Nova Scotia, Canada B3J 3G9).

COMMENT. Skin rash, especially Stevens-Johnson syndrome, is one of the most disturbing side-effects of AEDs. The introduction of any