

11-point scale for infants, which incorporates ocular responses (ranging from normal pursuit to fixed pupils), verbal responses (ranging from crying to apnea), and motor responses (from flexion/extension to flaccidity). A uniformly tested and accepted coma scale for infants and children would be advantageous. Coma scores as low as 3-4 carry the same prediction of poor outcome at any age; coma scores of 5-8 may carry a less serious significance in young children than in adults.

ALPHA COMA IN THE EEG

Recorded EEG rhythms within the alpha-frequency band, paradoxically resembling waking patterns but in apparently comatose patients, a pattern termed alpha coma, have been reviewed over a 10 yr period in the Division of Electroencephalography, University of Washington School of Medicine, Seattle, WA. Of 50 patients with records showing the alpha-pattern coma, 49 were admitted with cardio-pulmonary arrest and one had developed alpha coma with hyperglycemic, hyperosmolar coma. In addition to the alpha activity, arrhythmic delta waves were present diffusely in 25% and theta waves in 23%. The outcomes of patients with or without alpha coma after cardiac arrest did not differ significantly, the majority not regaining consciousness and dying in hospital. The single patient with hyperglycemic coma regained consciousness and was discharged but did not fully recover cognitive function. A review of the literature did not preclude neurological recovery following alpha coma. (Austin EJ et al. Etiology and prognosis of alpha coma. Neurology May 1988;38:773-777).

COMMENT: Alpha coma usually follows cardiac arrest and can be identified in 25% of patients. It also follows brainstem lesions, sedative drug overdose, respiratory arrest, and severe disturbance of glucose metabolism. Where alpha coma follows a condition other than cardiac arrest or a brain stem lesion the outcome is usually good. The prognosis is especially favorable after drug overdose.

MOVEMENT DISORDERS

DYSTONIA AND BIOPTERIN DEFICIENCY

Five patients with childhood dystonia associated with reduced CSF biopterin, responsive to levodopa, and characterized by diurnal and exertional variation are reported from the Developmental and Metabolic Neurology Branch, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, MD. Of 4 familial cases of dystonia with biopterin deficiency limited to the CNS and of unknown etiology, 2 brothers were more severely affected than 2 sisters, and the dystonia was complicated by hyperreflexia and extensor plantar responses indicative of associated pyramidal tract involvement. The fifth patient had a systemic deficiency of biopterin with hyperphenylalanemia and atypical phenylketonuria, and his dystonic rigidity was purely extrapyramidal and without spasticity. Patients were least symptomatic in the early morning or after a nap and became progressively weak, rigid and dystonic during the day with complete immobility in the afternoon or evening, and often unable to speak or to swallow. Improvement following Sinemet 10/100 began within 36 hours and benefit has been sustained during treatment for 18