

Brain size in autism. Cerebral cortical enlargement is reported in children with ASD examined by MRI at both 2 and 4-5 years of age (Hazlett HC et al. *Arch Gen Psychiatry* May 2011;68(5):467-476). A disproportionate enlargement in temporal lobe white matter was observed in ASD children (n=38) of controls (n=21). No significant difference from controls was observed in the rate of brain growth between 2 and 4 years of age. Brain enlargement observed in children with ASD is a consequence of an increased rate of brain growth with onset postnatally, before age 2 years and probably in the latter part of the first year of life. This early brain enlargement with increased cortical volume, but not cortical thickness, may be associated with increased cortical surface area and a distinct pathogenic mechanism. The early cortical overgrowth in young children with ASD is followed by a period of cortical thinning during adolescence and adulthood. (Wallace GL et al. *Brain* 2010;133:3745-3754).

ARACHNOID CYSTS CAUSING SYMPTOMATIC INCREASED INTRACRANIAL PRESSURE

Four children, ages 12 to 15 years, with intracranial arachnoid cysts complicated by increased intracranial pressure are reported from Children's Hospital of Philadelphia, PA. They presented with recent onset or increasing headaches, exacerbated by the supine position. Visual acuity was normal. Optic discs were swollen. Opening pressures at LP were 37 to 54 cm H₂O. All failed to respond to conservative medical therapies, but symptoms improved after a surgical shunting procedure. The arachnoid cyst was in the left middle temporal fossa and was complicated by a Chiari I malformation in 3 patients; one patient had hydrocephalus diagnosed at 18 months and a posterior fossa cyst. Three patients were previously treated with a cystoperitoneal shunt before age 2 and required shunt revision. (Prasad S, Avery RA, Campomanes A, Sutton LN, Liu GT. Symptomatic increased intracranial pressure due to arachnoid cysts. *Pediatr Neurol* May 2011;44:377-380). (Respond: Dr Prasad, Division of Neuro-Ophthalmology, Brigham and Women's Hospital, 75 Francis St, Boston, MA 02115. E-mail: sprasad2@partners.org).

COMMENT. Usually benign, arachnoid cysts are rarely complicated by increased intracranial pressure that may require a surgical shunt procedure. The association of a Chiari I malformation with an arachnoid cyst in 3 of these patients is noteworthy, but a possible relation to the headaches and increased intracranial pressure is undetermined. Other symptoms sometimes associated with arachnoid cyst include attention deficit hyperactivity disorder, not alluded to in this report.

OUTCOMES OF BILATERAL STURGE-WEBER SYNDROME

Researchers at Wayne State University School of Medicine, Detroit, MI studied 14 children with bilateral Sturge-Weber syndrome, representing 12.7% of a total of 110 patients with the disorder. Glucose positron emission tomography had an asymmetric pattern, one hemisphere was hypometabolic in 3 patients. Signs of cerebral atrophy or vascular abnormalities on MRI were more pronounced on one side. Long-term follow-up data available for 8 of the 14 patients covered 1-16 years (median, 9 years). Age at onset of seizures in 14 patients ranged from 2 weeks to 7.1 years (median, 6 months). Seizure