Research Articles

Association of Epilepsy Surgery With Changes in Imaging-Defined Brain Age

This MRI analysis of brain-predicted and chronological age difference (BrainAGE) showed that BrainAGE is greater in patients with refractory temporal lobe epilepsy (TLE) by at least 7 years compared to healthy controls. This difference is reduced after epilepsy surgery. Earlier surgery may benefit patients with refractory TLE.

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Safety and Efficacy of Coma Induction Following First-Line Treatment in Status Epilepticus: A 2-Center Study

In this 2-center cohort study, early induction of artificial coma after unsuccessful first-line treatment for status epilepticus was associated with shorter status epilepticus duration and in-hospital stay, as compared to treatment escalation (which adheres to guidelines), without increasing complications. These findings may be considered when revising current status epilepticus treatment guidelines.

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Continued
Clinical and Genetic Features in Patients With Reflex Bathing Epilepsy

Reflux seizures precipitated by external stimuli are associated with different genetic and acquired etiologies. Mutations in the X-linked gene SYN1 were identified in 12 individuals with seizures triggered by bathing or showering. Bathing seizures could suggest SYN1 mutations, especially if unprovoked seizures and developmental delay are associated.

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Short- and Long-term Health Care Resource Utilization and Costs Following Intracerebral Hemorrhage

In this study of more than 16,000 patients with intracerebral hemorrhage (ICH) from Ontario, Canada, the median total 1-year cost was $26,886 USD, with higher costs among survivors and those prescribed oral anticoagulation. This study shows the economic burden of ICH and long-term disability, demonstrating the importance of cost-effective therapies that reduce disability.

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Safety and Efficacy of Coma Induction Following First-Line Treatment in Status Epilepticus: A 2-Center Study (see p. 261)

In the first segment, Dr. Halley Alexander talks with Dr. Pia De Stefano about the safety and efficacy of artificial coma induction in the treatment of status epilepticus. In the second part of the podcast, Dr. Teshamae Monteith discusses a case presentation of RCVS and clinical management with Dr. Andy Southerland and his patient Martien Halvorson-Taylor, in the second part of our 4-part series on thunderclap headache.

Disclosures can be found at Neurology.org.

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### Spotlight on the August 10 Issue

José G. Merino  
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