Research Articles

Comparison of the EDSS, Timed 25-Foot Walk, and the 9-Hole Peg Test as Clinical Trial Outcomes in Relapsing-Remitting Multiple Sclerosis

This analysis of disability outcomes in people with relapsing-remitting multiple sclerosis (RRMS) showed that the standard outcome Expanded Disability Status Scale score may not adequately reflect irreversible disability worsening. Kaplan-Meier survival analysis, the current standard statistical method in RRMS trials, yields exaggerated estimates of disability worsening. These findings are important for the design of clinical trials for RRMS. Page 757

Structural MRI Signatures in Genetic Presentations of the Frontotemporal Dementia/Motor Neuron Disease Spectrum

This article provides insights into the neuroanatomical correlates of genetic heterogeneity across the frontotemporal dementia (FTD)/motor neuron disease (MND) spectrum—in particular, C9orf72-related disorders. The findings suggest measures of subcortical and cerebellar atrophy as non-invasive markers of these neurodegenerative presentations. MRI volumetric measures may provide promising candidate outcomes for trials targeting genetic forms of FTD/MND. Page 760

Subjective Sleep Quality and Sleep Architecture in Patients With Migraine: A Meta-analysis

The authors of this meta-analysis investigated the differences of objective sleep architecture and subjective sleep quality measures in patients with migraine. They found that both adults and children with migraine have poorer subjective sleep quality and altered sleep architecture than healthy individuals. Page 762
Clinical/Scientific Note
Neuropathologic Findings in a Patient With Juvenile-Onset Levodopa-Responsive Parkinsonism Due to ATP13A2 Mutation

In this neuropathologic description of Kufor Rakeb syndrome, the main finding was a widespread presence of glial lipofuscinosis. Neither Lewy body nor axonal spheroids, classically seen in neurodegeneration with brain iron accumulation, was observed. This study brings insights into the pathophysiology of ATP13A2 mutation.

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NB: “Clinical Reasoning: An 81-Year-Old Woman Who Insisted the Hospital Was Her Home,” p. e1632. To check out other Resident & Fellow Section Clinical Reasoning articles, point your browser to Neurology.org/N and click on the link to the Resident & Fellow Section. At the end of the issue, check out the Resident & Fellow Section Teaching NeuroImages article discussing the measurement of retinal ganglion cell layer thickness using optical coherence tomography, and another on isolated hypoglossal nerve palsy. This week also includes a NeuroImage titled “Clinical and Neuroimaging Features of Encephalocraniocutaneous Lipomatosis.”

NEW EPISODE

Neurology®
PODCAST
October 19, 2021

Neurologic Safety Monitoring of COVID-19 Vaccines: Lessons From the Past to Inform the Present (see p. 767)

In the first part of the podcast, Dr. Jason Crowell talks with Dr. Kiran Thakur about the importance of monitoring COVID-19 vaccines for neurologic adverse events and learning from past vaccination programs. In the second segment, Dr. Jeff Ratliff interviews Dr. Carles Gaig about the frequency and types of movement disorders in patients with anti-IgLON5 disease.

Disclosures can be found at Neurology.org.

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