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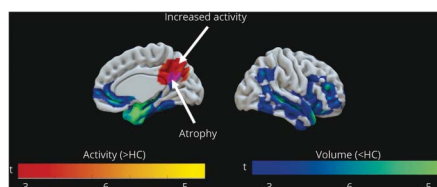


Notable in *Neurology* This week

This issue features an article that investigates the effect of changes in the use of brand name and generic antiseizure medications on total prescription cost among Medicare beneficiaries with epilepsy; another examines the associations between physical and mental activity, disease susceptibility, and the risk of dementia. A featured Research Article examines the implementation of the revised Accreditation Council for Graduate Medical Education requirements for adult neurology training for child neurology residents.

Articles

Novelty-Related fMRI Responses of Precuneus and Medial Temporal Regions in Individuals at Risk for Alzheimer Disease



This study investigates changes in novelty-related fMRI activity in medial temporal lobe regions and the precuneus in patients across the spectrum of Alzheimer disease (AD) risk. fMRI activity followed a nonlinear pattern with increased activity in patients with subjective or mild cognitive impairment that decreased in patients with AD. Precuneus hyperactivity serves as a potential early functional signature of memory impairment.

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Effects of Sex, APOE4, and Lifestyle Activities on Cognitive Reserve in Older Adults

This study sought to inform targeted prevention strategies for mitigating age-associated cognitive decline and delaying dementia onset by examining interactions between sex and physical or cognitive activities on cognitive reserve for speed and memory in older adults. The associations of self-reported lifestyle activities with cognitive reserve were more pronounced in women, with APOE4 attenuating these associations.

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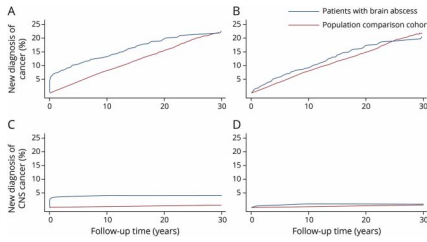
Association of Olfactory Performance With Motor Decline and Age at Onset in People With Parkinson Disease and the *LRRK2* G2019S Variant

Given that there is clinical and phenotypic heterogeneity in *LRRK2* G2019S Parkinson disease (PD), including loss of smell, this study used mixture modeling to determine features associated with olfactory classes and gain further insight into this heterogeneity. Among patients with *LRRK2* PD, those with worse olfaction had earlier onset and faster progression of motor decline.

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Continued

Brain Abscess and Risk of Cancer: A Nationwide Population-Based Cohort Study



Underlying occult cancer may potentially explain some of the observed increased long-term mortality among patients with a brain abscess. This nationwide population-based cohort study explored the association between brain abscess and the subsequent risk of new diagnosis of cancer. Brain abscess was found to be associated with a substantially increased risk of cancer during the first 10 years after diagnosis.

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NB: “First Human In Vivo Neuroelectrophysiology Recordings of Uncrossed Dentatothalamic Cortical White Matter Connections: On the Fast Tract,” p. 332. To check out other Clinical/Scientific Notes, point your browser to [Neurology.org/N](https://www.neurology.org/N). At the end of the issue, check out a NeuroImage depicting reversible dysexecutive syndrome from CSF overshunting in a patient with normal pressure hydrocephalus, and another showing stable leukoencephalopathy in a patient with ACTA2-associated multisystem smooth muscle disorder. This week also includes a Teaching Video NeuroImage titled “Hung-Up Reflex in Stiff Limb Syndrome.”

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Spotlight on the August 23 Issue

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