José G. Merino, MD, MPhil, Editor-in-Chief, *Neurology*[®]

Notable in *Neurology* this week

This issue features an article that determines that reverse dipping on white matter hyperintensity volume and neuropsychological test scores, in the presence of hypertension, is associated with small vessel cerebrovascular disease, which mediates memory function; another evaluates periodic limb movements of sleep in patients with obstructive sleep apnea and the influence of continuous positive airway pressure therapy. A featured Views & Reviews article examines whether there is enough information available to develop diagnostic criteria for the prodromal phase of dementia with Lewy bodies.

Articles

Long-term exposure to air pollution and trajectories of cognitive decline among older adults

The identification of factors associated with cognitive decline, beyond age and cerebrovascular and cardiovascular disease, may help prevent cognitive impairment and dementia. Living in areas with higher air pollution levels may be associated with accelerated cognitive decline and worse brain health.

Page 731

From editorialist Weuve: "The EPA newly integrated this burgeoning research into the evidence that informs [particulate matter] standards. . . . But air pollution exposure remains absent from most lists of dementia risk factors. What do these new findings tell us about interpreting the evidence?"

Page 727; Patient Page, page e1872

Lipids, apolipoproteins, and prognosis of amyotrophic lateral sclerosis

Amyotrophic lateral sclerosis (ALS) is recognized as a systemic disorder and dysregulated energy metabolism may contribute to its etiology. Abnormal levels of lipids and apolipoproteins are associated with mortality in patients with ALS.

Page 737

Meta-analysis of drug efficacy in adult vs pediatric trials of patients with PGTC seizures

Clinical trials of antiepileptic drugs for children with primary generalized tonic-clonic seizures (PGTCS) are challenging. The results of a meta-analysis of trials evaluating 7 drugs for PGTCS concluded that drug response from antiseizure drug clinical trials in adults with PGTCS can predict responses in children aged 2–12 years.

Page 738

MORE ONLINE

COVID-19 Resources

For the latest articles, invited commentaries, and blogs from physicians around the world

[NPub.org/COVID19](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7251000/)

Continued

Cortical superficial siderosis progression in cerebral amyloid angiopathy: Prospective MRI study

Cortical superficial siderosis (cSS) on MRI is a specific biomarker of cerebral amyloid angiopathy. cSS progression over 1 year might be a biomarker for assessing disease severity and future risk of a subsequent lobar intracerebral hemorrhage.

Page 739

From editorialists Lioutas and Gatringer: “Most importantly, given the potential of cSS and its progression as biomarkers of ICH risk, study findings merit further validation in the general population, especially those exposed to antithrombotics.”

Page 729

NB: “Mystery Case: Anti-NMDAR encephalitis with overlapping demyelinating syndrome,” p. e1866. To check out other Resident & Fellow Section Mystery Case 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 Journal Club article discussing a large cohort study that confirmed a relationship between antiepileptic drug treatment and reduced likelihood of epilepsy becoming refractory in older patients with epilepsy and those with poststroke epilepsy. This week also includes a Resident & Fellow Teaching Video NeuroImages article titled “Useful bedside testing for myasthenia gravis: The phenomenon of enhanced ptosis.”

NEW EPISODE

April 28, 2020

CME Opportunity: Listen to this week’s *Neurology* Podcast and earn 0.5 AMA PRA Category 1 CME Credits™ by answering the multiple-choice questions in the online Podcast quiz.

White matter hyperintensities mediate the association of nocturnal blood pressure with cognition (see p. 733)

1. White matter hyperintensities mediate the association of nocturnal blood pressure with cognition
2. What’s Trending: Joining Forces against Delirium — From Organ-System Care to Whole-Human Care

In the first segment, Dr. Adam Brickman talks with Dr. Dan Ackerman about his paper on nocturnal blood pressure and cognition. In the second part of the podcast, Dr. Greg Day speaks with Dr. Sharon Inouye about his *NEJM* article providing an update on delirium. The article is available online at: <https://bit.ly/2UCh2Xo>.

Disclosures can be found at Neurology.org.

Neurology[®]

Spotlight on the April 28 issue

José G. Merino

Neurology 2020;94;725-726

DOI 10.1212/WNL.0000000000009344

This information is current as of April 27, 2020

Updated Information & Services

including high resolution figures, can be found at:
<http://n.neurology.org/content/94/17/725.full>

Permissions & Licensing

Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at:
http://www.neurology.org/about/about_the_journal#permissions

Reprints

Information about ordering reprints can be found online:
<http://n.neurology.org/subscribers/advertise>

Neurology® is the official journal of the American Academy of Neurology. Published continuously since 1951, it is now a weekly with 48 issues per year. Copyright © 2020 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.