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

Notable in *Neurology* This Week

This issue features an article that investigates the effects of changes to multiple sclerosis (MS) diagnostic criteria over time on the treatment and outcome of patients with clinically isolated syndrome; another compares the characteristics of perimenstrual and nonperimenstrual migraine attacks in women with migraine. A review discusses the main epilepsy phenotypes associated with monogenic disorders and treatment options for genetic epilepsies.

Research Articles

Reflexive Eye Closure in Response to Cone and Melanopsin Stimulation: A Study of Implicit Measures of Light Sensitivity in Migraine

Using reflexive eye closure to measure light sensitivity, researchers studied patients with migraine with and without aura. Light stimuli increased discomfort in patients with migraine compared to healthy controls, and greater blinking activity occurred in those with migraine with aura. The findings suggest that intrinsically photosensitive retinal ganglion cells are a source of signals for photophobia.

Page 806

Influence of Cognitive Reserve on Cognitive Trajectories: Role of Brain Pathologies

The findings of this study suggest that accumulative educational and mentally stimulating activities may prevent cognitive decline in old age. A high lifespan cognitive reserve indicator was associated with preserved global cognitive function, episodic memory, and working memory over time, even in the presence of brain pathologies.

Page 808

Association of Prestroke Glycemic Control With Vascular Events During 1-Year Follow-up

In patients with acute ischemic stroke and diabetes mellitus, admission HbA1c was associated with the risk of vascular events. The optimal range of HbA1c associated with a minimum cardiovascular risk differed according to the ischemic stroke subtype, with the small vessel occlusion subtype showing the lowest range.

Page 810

Continued

Association of Elbow Flexor MRI Fat Fraction With Loss of Hand-to-Mouth Movement in Patients With Duchenne Muscular Dystrophy

Among nonambulant patients with Duchenne muscular dystrophy (DMD), quantitative MRI fat fractions (FFs) of elbow flexors predicted a loss of hand-to-mouth movement. Instantaneous risk of loss of hand-to-mouth movement corresponded to higher elbow flexor FF at any age. These findings suggest that elbow flexor FF may have value as a biomarker in DMD.

Page 812

NB: “Pearls & Oysters: POEMS Syndrome: An Eloquent Acronym for a Rare Disease You Don’t Want to Miss,” p. 835. To check out other Resident & Fellow Section Pearls & Oysters 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 a Resident & Fellow Section Teaching Video NeuroImage discussing a family with various movement disorders caused by a STUB1 variant and another on occipital dural arteriovenous malformation. This week also includes a Resident & Fellow Section Clinical Reasoning article titled “A 2-Day-Old Boy With Sudden Cardiac Arrest and Encephalopathy.”

NEW EPISODE

October 26, 2021

Reflexive Eye Closure in Response to Cone and Melanopsin Stimulation: A Study of Implicit Measures of Light Sensitivity in Migraine (see p. 806)

In the first part of the podcast, Dr. Jason Crowell discusses the business of Alzheimer disease and how to approach teaching patients about aducanumab with Dr. Jason Karlawish. In the second segment, Dr. Jennifer Bickel talks with Dr. Eric Kaiser about the contribution of melanopsin and cone signals to light-induced reflexive eye closure in migraine.

Disclosures can be found at Neurology.org.

CME Opportunity: Listen to this week’s Neurology® Podcast and earn 0.5 AMA PRA Category 1 CME Credits™ by completing the online podcast quiz.

Neurology®

Spotlight on the October 26 Issue

José G. Merino

Neurology 2021;97;797-798

DOI 10.1212/WNL.00000000000012742

This information is current as of October 25, 2021

Updated Information & Services

including high resolution figures, can be found at:
<http://n.neurology.org/content/97/17/797.full>

Subspecialty Collections

This article, along with others on similar topics, appears in the following collection(s):

Autonomic diseases

http://n.neurology.org/cgi/collection/autonomic_diseases

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 © 2021 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.