

Robert A. Gross, MD, PhD, FAAN, Editor-in-Chief, *Neurology*[®]



Notable in *Neurology* this week

This issue features an article that investigates the prevalence and outcome of bias and underestimated variability in spinal cord injury studies; another determines the profile that can be expected for children with cerebral palsy spectrum disorder and a normal MRI. A featured Contemporary Issues article examines the compensation received by neurology faculty for their teaching efforts.

Articles

Changes in cerebral autoregulation and blood biomarkers after remote ischemic preconditioning

This article reports a clinically feasible way to improve cerebral autoregulation. Remote ischemic preconditioning improved dynamic cerebral autoregulation in healthy adults and altered various neuroprotective and inflammation-related blood biomarkers, suggesting that remote ischemic preconditioning improves cerebral autoregulation and may help prevent cerebrovascular disease occurrence.

Page 18

From editorialists Nyquist & Georgakis: "The authors have taken an important and ingenious step towards the clinical translation of research findings for RIPC, and the elucidation of potential mechanisms for the preservation of tissue in the face of ischemic injury of the brain."

Page 15

Progression of cognitive decline before and after incident stroke

The temporal pattern of cognitive decline before and after incident stroke is unknown. Linear mixed models revealed acute cognitive decline at the time of incident stroke and accelerated cognitive declines before and after incident stroke. Cognitive function should be considered as an important domain for the rehabilitation of stroke survivors.

Page 19

Cross-sectional associations of tau-PET signal with cognition in cognitively unimpaired adults

Cognitively unimpaired people with subtle cognitive abnormalities likely have pathologic correlates. This study assessed tau-PET signal and cognition and confirmed that tau in the entorhinal cortex associates with the earliest development of memory impairment beyond aging. Tau-PET likely detects very early tau deposition, which is important in the development of dementia.

Page 20

MORE ONLINE

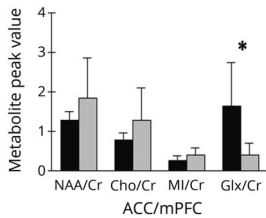
🎧 Editor's Summary

Audio summary of highlighted articles.

[NPub.org/edsum](https://www.neurology.org/edsum)

Continued

Limbic neurochemical changes in patients with functional motor symptoms



Functional neurologic symptoms (FNS) are frequent in clinical practice. In this study, by using magnetic resonance spectroscopy, patients with motor FNS had increased glutamate/glutamine in limbic areas. This finding breaks through psychological hypotheses to show a neurochemical pathophysiologic mechanism that could be targeted for novel pharmacologic treatments of FNS.

Page 22

NB: “Education Research: Flipped classroom in neurology: Principles, practices, and perspectives,” p. e106. To check out other Resident & Fellow Education Research 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’s Pearls & Oysters article discussing Cogan syndrome. This week also includes a NeuroImage titled “Mastoid osteoma with stenosis of transverse and sigmoid sinuses as a cause of pseudotumor cerebri.”

NEW EPISODE



Neurology[®]

PODCAST

July 2, 2019

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.

Current treatment practice of Guillain-Barré syndrome (see p. 23)

1. Current treatment practice of Guillain-Barré syndrome
2. What’s Trending: Somatic expansion of the *C9orf72* hexanucleotide repeat does not occur in ALS spinal cord tissues (April 2019 issue of *Neurology[®] Genetics*)

In the first segment, Dr. Michelle Mauermann talks with Dr. Bart Jacobs about his paper on current treatment practice of Guillain-Barré syndrome. In the second part of the podcast, Dr. Matthew Harms focuses his discussion with Dr. Guy Rouleau on his *Neurology: Genetics* paper looking at how somatic expansion of the *C9orf72* hexanucleotide repeat does not occur in ALS spinal cord tissues.

Disclosures can be found at Neurology.org.

Neurology[®]

Spotlight on the July 2 issue

Robert A. Gross

Neurology 2019;93;1-2

DOI 10.1212/WNL.0000000000007722

This information is current as of July 1, 2019

Updated Information & Services	including high resolution figures, can be found at: http://n.neurology.org/content/93/1/1.full
Citations	This article has been cited by 2 HighWire-hosted articles: http://n.neurology.org/content/93/1/1.full##otherarticles
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 © 2019 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

