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

Notable in *Neurology* this week

This issue features an article that validates a Medical Research Council Centre MRI protocol in type 1A Charcot-Marie-Tooth disease by reproducing outcome measure responsiveness at a second site; another examines the possible correlation between pituitary adenylate cyclase-activating peptide 38 and white matter structure in migraine. A featured Views & Reviews article describes work-related risk factors for lumbosacral radiculopathy syndrome.

Articles

Cerebello-spinal tDCS in ataxia: A randomized, double-blind, sham-controlled, crossover trial

Most neurodegenerative ataxias are unresponsive to pharmacologic treatment. In this study, cerebello-spinal transcranial direct current stimulation (tDCS) improved symptoms in patients with ataxia and restored motor cortex inhibition exerted by cerebellar structures. Cerebello-spinal tDCS might represent a promising future therapeutic and rehabilitative approach in patients with ataxia.

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From editorialists Fujioka et al.: "From this small study, tDCS offers promise as a novel therapeutic approach for ataxic patients."

Page 541

Characteristics of motor vehicle crashes associated with seizure: Car crash semiology

There are important implications for a driver if a car crash is seizure-related. The authors compared characteristics of seizure-related crashes (SRC) with a large population of non-seizure-related crashes and identified unique features of SRC. Collision characteristics can be an important tool in the assessment of a suspected SRC.

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From editorialists Sirven & Payne: "This article should serve as an innovative opening to the type of potential research that crosses the disciplines of health, law policy, and transportation science with real-world clinical applicability, leading resolution of an issue that truly matters to all patients with epilepsy (or any neurologic condition)."

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MORE ONLINE

🎧 Editor's Summary

Audio summary of highlighted articles.

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

Continued

Association between aspirin dose and subarachnoid hemorrhage from saccular aneurysms: A case-control study

The authors examined the effects of aspirin on intracranial aneurysm rupture, as may be a possible noninvasive treatment of intracranial aneurysms. Aspirin use was associated with a lower risk of rupture, but with an increased risk of rerupture in already ruptured aneurysms. Aspirin has contrasting effects on aneurysm rupture.

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APOE ε4 is associated with severity of Lewy body pathology independent of Alzheimer pathology

The APOE genotype in patients with Lewy body disorders may be a likelihood measure for developing dementia as part of the disease course. The APOE ε4 isoform exacerbates α-synuclein-related pathology even when only low levels of Alzheimer-type pathology are present. Large clinical cohort studies are needed to better assess how APOE status clinically influences disease progression.

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NB: "Axonal peripheral neuropathy in propionic acidemia: A severe side effect of long-term metronidazole therapy," p. 565. To check out other Clinical/Scientific Notes, point your browser to Neurology.org/N. At the end of the issue, check out the Resident & Fellow Clinical Reasoning article analyzing the case of a patient initially diagnosed with medulloblastoma experiencing transient aphasia, right arm heaviness, and blurry vision. This week also includes a Visions titled "Of the brain, by the brain, and for the brain."

NEW EPISODE

September 18, 2018

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.

Cerebello-spinal tDCS in ataxia: A randomized, double-blind, sham-controlled, crossover trial (see p. 547)

1. Cerebello-spinal tDCS in ataxia: A randomized, double-blind, sham-controlled, crossover trial
2. What's Trending: Emerging therapies for spinal muscular atrophy and Duchenne muscular dystrophy

Dr. Jeff Ratliff talks with Dr. Alberto Benussi about his paper on cerebellar anodal and spinal cathodal transcranial direct current stimulation as a therapeutic approach for reducing symptoms in patients with neurodegenerative ataxia. In the second part of the podcast, we are featuring a discussion with Dr. Ted Burns and Stat reporter Adam Feuerstein on two emerging therapies for spinal muscular atrophy and Duchenne muscular dystrophy.

Disclosures can be found at Neurology.org.

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Spotlight on the September 18 issue

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