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

Notable in *Neurology* this week

This issue features an article that describes the differences in brain imaging, neuropsychological testing, and sleep findings in type 1 and type 2 narcolepsy; another examines the effect of IV methylprednisolone on duration of symptomatic episodes in Kleine-Levin syndrome. A featured American Academy of Neurology Practice Guideline presents recommendations for disease-modifying therapies in multiple sclerosis.

Articles

Memory decline accompanies subthreshold amyloid accumulation

The authors examined the amyloid and cognitive trajectories of β -amyloid-negative individuals. Older individuals with normal cognition and low, but increasing, amyloid burden experienced concurrent memory decline, even though the majority remained in the amyloid-negative range. Amyloid increases within the negative range may represent the earliest indication of Alzheimer disease-related pathophysiology.

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From editorialists McMillan and Chételat: "The Landau et al. report provides support for the possibility that $A\beta$ accumulators, rather than $A\beta$ -positive individuals, may be the optimal candidates for early stage $A\beta$ -targeted clinical trials."

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Insulin resistance and clinical outcomes after acute ischemic stroke

Hyperglycemia is a known predictor for poor neurologic and functional outcomes after acute ischemic stroke. The authors highlight the implications of insulin resistance, as assessed by the homeostasis model assessment of insulin resistance, in clinical outcomes. Insulin resistance may be considered as an unfavorable factor for poststroke outcomes.

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Biomarker-based analysis of preclinical progression in spinal and bulbar muscular atrophy

Disease processes commence prior to symptom emergence in neurodegenerative diseases. In this study, patients' health examination data revealed that serum creatinine levels start to decrease more than 10 years before the onset of muscle weakness in spinal and bulbar muscular atrophy. Routine health examinations can detect presymptomatic progression of neurodegeneration.

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MORE ONLINE

🎧 Editor's Summary

Audio summary of highlighted articles.

NPub.org/edsum

Continued

Aminophylline for treatment of postdural puncture headache: A randomized clinical trial

This randomized, controlled trial provided Class I evidence that IV aminophylline reduces headache severity in patients with postdural puncture headache. Early application of aminophylline achieved a greater-than-placebo reduction of pain intensity that persisted at all follow-up time-points. IV aminophylline injections are a straightforward, safe, and effective treatment for postdural puncture headache.

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NB: "Palatal tremor as a presenting symptom of amyotrophic lateral sclerosis," p. 801. 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 discussing a patient's presenting symptoms and ultimate diagnosis of encephalitis-led obstructive hydrocephalus. This week also includes a Reflections: Neurology and the Humanities piece titled "Glioblastoma in 140 characters."

NEW EPISODE

April 24, 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.

Practice guideline recommendations summary: Disease-modifying therapies for adults with multiple sclerosis: Report of the Guideline Development, Dissemination, and Implement- ation Subcommittee of the American Academy of Neurology (see p. 777)

1. Featured Article: Practice guideline recommendations summary: Disease-modifying therapies for adults with multiple sclerosis: Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology
2. What's Trending: Global burden of neurologic diseases

This podcast begins and closes with Dr. Robert Gross, Editor-in-Chief, briefly discussing highlighted articles from the April 24, 2018, issue of *Neurology*. In the first segment, Dr. Stacey Clardy talks with Dr. Alexander Rae-Grant about his recent practice guideline recommendations summary regarding disease-modifying therapies for adults with multiple sclerosis. In the second part of the podcast, Dr. Jason Crowell focuses his interview with Dr. Theo Vos on the global burden of neurologic disease.

Disclosures can be found at Neurology.org.

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Spotlight on the April 24 issue

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