

Robert A. Gross, MD, PhD, FAAN, Editor-in-Chief, *Neurology*<sup>®</sup>

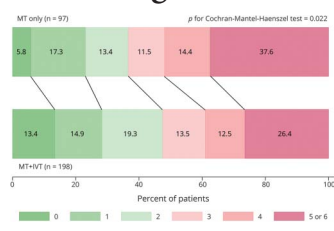


## Notable in *Neurology* this week

This issue features an article that details motor phenomena differences in syncope and convulsive seizures, and another that provides an update on the state of clinical research in neurology in the United States. A featured Views & Reviews article outlines framework and nomenclature for researchers of cognitive impairment.

## Articles

### Comparative safety and efficacy of combined IVT and MT with direct MT in large vessel occlusion



Most patients with emergent large vessel occlusion receive IV thrombolysis (IVT) as a pretreatment to mechanical thrombectomy (MT). The authors evaluated the comparative safety and efficacy of combined IVT and MT. Combination therapy resulted in better outcomes than MT alone. The effect of IVT after MT should be addressed in a randomized controlled trial.

Page 679

*From editorialists Carrera and Strbian: "At present, we cannot fully grasp the real-life consequences of recent EVT trials on our primary and comprehensive stroke centers. Without any doubt, IVT will remain the gold standard for patients without or with distal vessel occlusion."*

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### Elevated trimethylamine N-oxide related to ischemic brain lesions after carotid artery stenting

Patients treated with carotid artery stenting (CAS) are at an increased risk of ischemic brain lesions. The authors explored a proatherosclerotic intestinal microbiota metabolite as possible predictor of ischemic brain injury after CAS. Increased plasma level of trimethylamine N-oxide was associated with increased risk of new lesion development after CAS.

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### Midlife cardiovascular fitness and dementia: A 44-year longitudinal population study in women

With no cure for dementia, a focus on modifiable preventive factors is important. This study investigated the association between midlife cardiovascular fitness and dementia risk in women. Those with high fitness levels showed a decrease in dementia incidence, longer time to onset, and higher age at onset. High cardiovascular fitness levels during midlife might decrease risk of dementia.

Page 683

*From editorialists Spartano and Ngandu: "It is possible that the relation of fitness to dementia observed in Hörder et al. may be independent of the physical activity level of participants, but may be more a result of genetic and other environmental influences on cardiovascular structure and function."*

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## MORE ONLINE

### 🎧 Editor's Summary

Audio summary of highlighted articles.

[NPub.org/edsum](http://NPub.org/edsum)

Continued

## Psychiatric comorbidity is associated with disability progression in multiple sclerosis

In this retrospective study, the authors investigated the relation of psychiatric comorbidity and multiple sclerosis disability progression. Presence of a mood or anxiety disorder corresponded with higher Expanded Disability Status Scale scores. Optimized management of psychiatric comorbidities may mitigate disability progression in multiple sclerosis.

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NB: "Acute amnesia associated with damaged fiber tracts following anterior fornix infarction," p. 706. To check out other NeuroImages, point your browser to [Neurology.org/N](http://Neurology.org/N). At the end of the issue, check out the Resident & Fellow Section Education Research article evaluating the possible issue of a persistent knowledge gap in neurology residents' neurophysiology education. This week also includes a Reflections: Neurology and the Humanities poem titled "Inviolable."

### NEW EPISODE



## Neurology<sup>®</sup>

### PODCAST

April 10, 2018

## Ask a neurologist: What primary care providers ask and reducing referrals through eConsults (see the April 2018 issue of *Neurology<sup>®</sup> Clinical Practice*)

1. Featured Article: Ask a neurologist: What primary care providers ask and reducing referrals through eConsults
2. *Neurology Today*: Top research advances in 2017

This podcast begins and closes with Dr. Robert Gross, Editor-in-Chief, briefly discussing highlighted articles from the April 10, 2018, issue of *Neurology*. In the first segment, Dr. Heather Harle interviews Drs. Ana Bradi and Erin Keely about their paper on implementing an eConsult service between primary care providers and neurologists at the Ottawa Hospital. For the second segment, Dr. Andy Southerland speaks with Dr. Joseph Safdieh on the *Neurology Today<sup>®</sup>* editorial selections for the top research advances in 2017.

Disclosures can be found at [Neurology.org/podcast](http://Neurology.org/podcast).

**No CME this week:** Interviews based on articles from *Neurology: Clinical Practice*, *Neurology<sup>®</sup> Genetics*, and *Neurology<sup>®</sup> Neuroimmunology & Neuroinflammation* are excluded from the CME program.

# Neurology<sup>®</sup>

## Spotlight on the April 10 issue

Robert A. Gross

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