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## Notable in *Neurology* This Week

This issue features an article that describes the neuroprotective and compensatory effects of intellectual activity on brain aging and cognition during amyloid accumulation and another that discusses the brain amyloid pathology in a population at risk of dementia, but with normal cognition. A featured Special Article details an update of the 2001 American Academy of Neurology guideline on mild cognitive impairment.

## Articles

### Comparative effect of statins on the risk of incident Alzheimer disease

This observational study used head-to-head comparison to evaluate the possible neuroprotective effect of statins. Fungus-derived and lipophilic statins did not decrease Alzheimer disease incidence compared to synthetic or hydrophilic statins in this study. Individual statin characteristics should not influence clinical management of patients aged  $\geq 60$  years needing such medication.  
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*From editorialists Yasar & Whitmer: "This study is important since it highlights a new, pharmacologic consideration that may be important for randomized clinical trials, since results may vary by chemical structure and properties of statins used."*

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### Nutrients and bioactives in green leafy vegetables and cognitive decline: Prospective study

Of all vegetables, green leafy vegetables provide the strongest protection against cognitive decline. In this prospective study, the authors investigated the primary nutrients and bioactive ingredients of green leafy vegetables. Consuming one serving of foods rich in phyloquinone, lutein, nitrate, folate,  $\alpha$ -tocopherol, and kaempferol may help slow cognitive decline.

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### Silent cerebral infarct definitions and full-scale IQ loss in children with sickle cell anemia



Definitions of silent cerebral infarct (SCI) differ between pediatric and adult populations. The authors evaluated whether the radiologic adult definition is associated with pediatric-defined SCI (5.2-point decline in full-scale IQ) in children with sickle cell anemia. No association was found, so the pediatric definition of SCI should be maintained.

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*From editorialists Pavlakis & Roach: "Ultimately, treatment of neurologic complications in sickle cell disease needs to lower the risk for stroke, silent cerebral infarction, and cognitive decline with or without normal conventional MRI. Diffusion tensor imaging might be a more sensitive biomarker for subtle brain disease in sickle cell disease."*

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## MORE ONLINE

### 🎧 Editor Summary

Audio summary of highlighted articles.

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

*Continued*

## Ovarian aging is associated with gray matter volume and disability in women with MS

The perimenopausal period may confer a worsening disease course in women with multiple sclerosis (MS). The authors observed that a biomarker of ovarian aging, anti-Müllerian hormone, is associated with clinical and MRI outcomes in women with MS. Biological changes associated with ovarian aging may have an influence on the course of MS.

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NB: "Moyamoya-like cerebrovascular disease in a child with a novel mutation in myosin heavy chain 11," p. 136. To check out other Clinical/Scientific Notes, point your browser to [Neurology.org/N](http://Neurology.org/N). At the end of the issue, check out the Resident & Fellow Teaching NeuroImage discussing Gasperini syndrome, and a Teaching Video NeuroImage on electromyographic variation in stiff-person syndrome. This week also includes a NeuroImage titled "Orolingual and abdominal angioedema post thrombolysis and thrombectomy."

### NEW EPISODE



January 16, 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 update summary: Mild cognitive impairment: Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology (see page 126)

1. Featured Article: Practice guideline update summary: Mild cognitive impairment: Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology
2. Lesson of the Week: Migraine and hormones

This *Neurology*® Podcast begins and closes with Dr. Robert Gross, Editor-in-Chief, briefly discussing highlighted articles from the January 16, 2018, issue of *Neurology*. In the first segment, Dr. Jeff Burns talks with Dr. Ronald Petersen about the updated 2001 AAN guideline on prevalence, prognosis, and treatment of mild cognitive impairment. For the Lesson of the Week, Dr. Tesha Mae Monteith speaks with Dr. Jelena Pavlovic about the association between hormones and migraine.

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

# Neurology®

## Spotlight on the January 16 issue

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