

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



Notable in *Neurology* this week

This issue features an article that illustrates the ability of CSF biomarkers to predict disease progression in progressive supranuclear palsy and another that reports an increased risk of oral clefts associated with maternal use of high-dose topiramate early in pregnancy. A featured Medical Hypothesis article outlines the theory that exposure to low-dose organochlorine pesticides explains the difference in the association of midlife and late-life obesity with dementia risk.

Articles

MicroRNAs in CSF as prodromal biomarkers for Huntington disease in the PREDICT-HD study

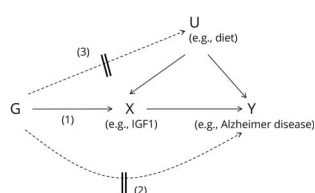
In this study, the authors identified the capability of CSF microRNAs as a prodromal marker in asymptomatic Huntington disease gene-positive individuals. Measurable changes in CSF, detected decades before Huntington disease onset, increased as time to disease onset shortened. MicroRNAs have diagnostic and clinical trial efficacy potential for neurodegenerative diseases.

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From editorialists Claassen and Torres-Russotto: "Never before has there been such strong momentum toward bringing disease-modifying treatments for Huntington disease to clinical practice, and the Huntington disease community at large waits expectantly for these to come to fruition."

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Circulating insulin-like growth factors and Alzheimer disease: A mendelian randomization study



The aging process clearly has some role in Alzheimer etiology. The authors examined whether variation in circulating insulin-like growth factor 1 (IGF1), a key aging pathway, or the binding protein IGFBP3, could be implicated. Using genetic epidemiology models, no suggestion of long-term variation in IGF-axis activity effect on Alzheimer risk was identified.

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Differences in risk factors for 3 types of stroke: UK prospective study and meta-analyses

Through meta-analysis of a 1 million women cohort, the authors identified strong differences for classic vascular risk factors (smoking, adiposity, hypertension, and diabetes) among subarachnoid hemorrhage, intracerebral hemorrhage, and ischemic stroke. The subarachnoid hemorrhage findings are intriguing, since adiposity and diabetes reduce its risk. Mechanisms for these findings are unclear.

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MORE ONLINE

🎧 Editor's Summary

Audio summary of highlighted articles.

NPub.org/edsum

Continued

Neurocognitive functioning and cerebrovascular reactivity after carotid endarterectomy

This study explored a new modality to assess the potential risks of carotid stenosis by evaluating the relationship of cerebral hemodynamics and cognitive performance. Hemodynamic effects of carotid stenosis allow evaluation of cognitive impairment risk. Cerebral hemodynamics may be a reversible determinant of cognitive dysfunction in carotid artery disease.

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NB: "Ophthalmic artery MRI in an arteritis-related central retinal artery occlusion," p. 188. To check out other NeuroImages, point your browser to Neurology.org/N. At the end of the issue, check out the Resident & Fellow Pearls & Oysters article discussing positional vertigo and vertical nystagmus in a patient with medulloblastoma. This week also includes a Reflections: Neurology and the Humanities prose piece titled "A letter to a rat from a medical student."

NEW EPISODE



January 23, 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.

Collateral response modulates the time–penumbra relationship in proximal arterial occlusions (see p. 163)

1. Featured Article: Collateral response modulates the time–penumbra relationship in proximal arterial occlusions
2. Lesson of the Week: Migraine and neuromodulation

This podcast begins and closes with Dr. Robert Gross, Editor-in-Chief, briefly discussing highlighted articles from the January 23, 2018, issue of *Neurology*. In the first segment, Dr. Kevin Barrett talks with Dr. Smriti Agarwal about her paper on collateral circulation in proximal arterial occlusions and extending the scope of thrombolytic therapy. In the second part of the podcast, Dr. Tesha Mae Monteith focuses her Lesson of the Week interview with Dr. Stewart Tepper on acute and preventative neuromodulation treatment for migraine.

Disclosures can be found at Neurology.org/podcast.

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Spotlight on the January 23 issue

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