In Focus

Spotlight on the June 7 Issue

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Notable in *Neurology*

This issue features an article that assesses the utility of the Cincinnati Prehospital Stroke Scale and Recognition of Stroke in the Emergency Room tools in evaluating children presenting to the emergency department with brain attack symptoms. A featured article focuses on the effects of white noise galvanic vestibular stimulation on dynamic walking stability in patients with bilateral vestibulopathy.

ARTICLES

Phenotypic characteristics of Alzheimer patients carrying an *ABCA7* mutation [OPEN](#)

The authors evaluated medical records, including laboratory and CSF analyses; neuroimaging studies; and neuropathology data. They found that patients carrying *ABCA7* loss-of-function mutations exhibited an Alzheimer disease phenotype.

See p. 2126; See also p. 2134

ABCA7 rare variants and Alzheimer disease risk

The authors conducted a whole exome analysis among 484 patients with early-onset Alzheimer disease (AD) and 590 controls, confirming that *ABCA7* loss-of-function variants were enriched in patients with AD.

See p. 2134; See also p. 2126

From editorialist Swerdlow: "These studies advance AD knowledge but interpretive limitations apply. While the overall finding that rare *ABCA7* variants contribute to AD risk appears reliable, because they are so uncommon some variants could ultimately turn out to be incidental findings."

See p. 2118

Prehospital systolic blood pressure is higher in acute stroke compared with stroke mimics

In this analysis of 960 patients transported by emergency medical services (EMS) to an emergency department (ED) with suspected stroke, stroke was diagnosed in 544 patients and 416 were mimics. Prehospital systolic blood pressure was higher in acute stroke than in mimics and highest for those with intracranial hemorrhage. Given the stability of blood pressure between initial EMS and ED measurements, it may be reasonable to test the feasibility and safety of prehospital antihypertensive therapy in patients with suspected stroke.

See p. 2146

Neonatal seizures triple the risk of a remote seizure after perinatal ischemic stroke

The authors examined children with acute or presumed perinatal stroke and found that neonatal seizures were associated with 3-fold increased remote seizure risk. Children with neonatal seizures had a 69% cumulative incidence of remote seizure by age 10. This study helps clinicians counsel families about childhood seizures after perinatal stroke.

See p. 2179

Malignancies after mitoxantrone for multiple sclerosis: A retrospective cohort study [OPEN](#)

The authors assessed the therapy-related risk of malignancies in 677 mitoxantrone-treated patients with multiple sclerosis. While the overall incidence of malignancies was only mildly increased, the risk of leukemia and colorectal cancer was heightened. If these results are confirmed, posttherapy colonoscopy may become advisable. Further studies are needed.

See p. 2203

NB: "Myriad manifestations of a global infectious disease," see p. e234. To check out other Resident & Fellow Clinical Reasoning submissions, point your browser to Neurology.org and click on the link to the Resident & Fellow Section. At the end of the issue, check out the Clinical/Scientific Note discussing absence of Lewy pathology associated with *PINK1* homozygous mutation. This week also includes a *NeuroImage* titled "X-linked adrenoleukodystrophy presenting with positional downbeat nystagmus."

Podcasts can be accessed at Neurology.org

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