Research Articles

Reflexive Eye Closure in Response to Cone and Melanopsin Stimulation: A Study of Implicit Measures of Light Sensitivity in Migraine

Using reflexive eye closure to measure light sensitivity, researchers studied patients with migraine with and without aura. Light stimuli increased discomfort in patients with migraine compared to healthy controls, and greater blinking activity occurred in those with migraine with aura. The findings suggest that intrinsically photosensitive retinal ganglion cells are a source of signals for photophobia.

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Influence of Cognitive Reserve on Cognitive Trajectories: Role of Brain Pathologies

The findings of this study suggest that accumulative educational and mentally stimulating activities may prevent cognitive decline in old age. A high lifespan cognitive reserve indicator was associated with preserved global cognitive function, episodic memory, and working memory over time, even in the presence of brain pathologies.

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Association of Prestroke Glycemic Control With Vascular Events During 1-Year Follow-up

In patients with acute ischemic stroke and diabetes mellitus, admission HbA1c was associated with the risk of vascular events. The optimal range of HbA1c associated with a minimum cardiovascular risk differed according to the ischemic stroke subtype, with the small vessel occlusion subtype showing the lowest range.

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Continued
Association of Elbow Flexor MRI Fat Fraction With Loss of Hand-to-Mouth Movement in Patients With Duchenne Muscular Dystrophy

Among nonambulant patients with Duchenne muscular dystrophy (DMD), quantitative MRI fat fractions (FFs) of elbow flexors predicted a loss of hand-to-mouth movement. Instantaneous risk of loss of hand-to-mouth movement corresponded to higher elbow flexor FF at any age. These findings suggest that elbow flexor FF may have value as a biomarker in DMD.

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NB: “Pearls & Oy-sters: POEMS Syndrome: An Eloquent Acronym for a Rare Disease You Don’t Want to Miss,” p. 835. To check out other Resident & Fellow Section Pearls & Oy-sters articles, point your browser to Neurology.org/N and click on the link to the Resident & Fellow Section. At the end of the issue, check out a Resident & Fellow Section Teaching Video NeuroImage discussing a family with various movement disorders caused by a STUB1 variant and another on occipital dural arteriovenous malformation. This week also includes a Resident & Fellow Section Clinical Reasoning article titled “A 2-Day-Old Boy With Sudden Cardiac Arrest and Encephalopathy.”

Reflexive Eye Closure in Response to Cone and Melanopsin Stimulation: A Study of Implicit Measures of Light Sensitivity in Migraine (see p. 806)

In the first part of the podcast, Dr. Jason Crowell discusses the business of Alzheimer disease and how to approach teaching patients about aducanumab with Dr. Jason Karlawish. In the second segment, Dr. Jennifer Bickel talks with Dr. Eric Kaiser about the contribution of melanopsin and cone signals to light-induced reflexive eye closure in migraine.

Disclosures can be found at Neurology.org.

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