

In This Issue: January 2022

Research

ORIGINAL INVESTIGATION

11 Nicotinamide and Pyruvate for Neuroenhancement in Open-Angle Glaucoma: A Phase 2 Randomized Clinical Trial

CG De Moraes and Coauthors

This phase 2 randomized clinical trial tests the hypothesis that a combination of nicotinamide and pyruvate can improve retinal ganglion cell function in individuals with glaucoma as measured with standard automated perimetry.

Invited Commentary 18

Visual Abstract | CME | Journal Club Slides

20 Safety Outcomes of Brolicizumab in Neovascular Age-Related Macular Degeneration: Results From the IRIS Registry and Komodo Healthcare Map

AM Khanani and Coauthors

This cohort study assesses the real-world incidence of intraocular inflammation, including retinal vasculitis and/or retinal vascular occlusion for patients with neovascular age-related macular degeneration who underwent brolicizumab treatment.

Invited Commentary 28

30 Defining High-risk Retinoblastoma: A Multicenter Global Survey

S Kaliki and Coauthors

This survey study evaluates variations in the definition of high-risk histopathologic features for metastasis of retinoblastoma in different ocular oncology practices around the world.

37 Association Between Pentosan Polysulfate Sodium and Retinal Disorders

G McGwin Jr, P MacLennan, and C Owsley

This analysis of disproportionality used adverse event reports to assess the association of pentosan polysulfate sodium exposure and maculopathy.

43 Association of Public Health Measures During the COVID-19 Pandemic With the Incidence of Infectious Conjunctivitis

JM Lavista Ferres and Coauthors

This comparative effectiveness study evaluates whether internet search interest and emergency department visits for infectious conjunctivitis were associated with public health interventions adopted during the COVID-19 pandemic.

Invited Commentary 50

Available online

jamaophthalmology.com

51 Ocular Sequelae in a Population-Based Cohort of Youth Diagnosed With Diabetes During a 50-Year Period

P Bai and Coauthors

This cohort study describes the risk of developing diabetes-associated ocular complications among children diagnosed with type 1 or type 2 diabetes during a 50-year period.

Invited Commentary 57

59 Effect of Nightly Lower Body Negative Pressure on Choroid Engorgement in a Model of Spaceflight-Associated Neuro-ocular Syndrome: A Randomized Crossover Trial

CM Hearon Jr and Coauthors

This randomized crossover trial tests the hemodynamic stability and efficacy of a specialized sleeping sack capable of delivering nightly lower body negative pressure.

CME

66 Cumulative Mortality and Factors Associated With Outcomes of Mucormycosis After COVID-19 at a Multispecialty Tertiary Care Center in India

T Choksi and Coauthors

This case-control study reports outcomes and cumulative mortality rates among patients with COVID-19-associated rhino-orbitocerebral mucormycosis.

Invited Commentary 73

BRIEF REPORT

75 Auditory Reminder Cues to Promote Proactive Scanning on Approach to Intersections in Drivers With Homonymous Hemianopia: Driving With Hemianopia, IX

J Xu, B Emmermann, and AR Bowers

This cross-sectional study of a driving simulation evaluates whether auditory reminder cues promoted proactive scanning on approach to intersections in individuals with homonymous hemianopia.

79 Incidence of Accommodations for Patients With Significant Vision Limitations in Physicians' Offices in the US

LI Iezzoni and Coauthors

This US physician survey study explores the extent of basic accommodations physicians practicing in the US provide to patients with significant vision limitations in outpatient care.

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Editor in Chief
Neil M. Bressler, MD



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INVITED COMMENTARY

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PY Ramulu

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28 Risk Factors for Intraocular Inflammation After Brolicizumab Treatment

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50 Using the Internet to Detect Emerging Outbreaks—Armchair Epidemiology

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57 The Growing Need to Understand Diabetic Retinopathy Outcomes in Youth

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73 Rhino-Orbital-Cerebral Mucormycosis—Another Deadly Complication of COVID-19 Infection

AA Tooley, EA Bradley, and JJ Woog

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84 Improving Health Care Accessibility for People With Vision Impairment—A Call to Account

J Ramke, BAM Ah Tong, and BK Swenor

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Clinical Review & Education

JAMA OPHTHALMOLOGY CLINICAL CHALLENGE

86 Periorbital Mass in a 44-Year-Old Woman

DH Kim, V Lee, and CA Briceño

This case report describes a 44-year-old woman with a mass on the lateral canthus of her right eye that had grown over 2 months and was tender to palpation. What would you do next?

88 An Atypical Case of Optic Neuropathy

KJ Williams and RC Allen

A 17-year-old girl presented with 3 months of decreased vision in the right eye associated with throbbing pain with eye movement. Magnetic resonance imaging revealed a fusiform expansion of the right optic nerve and enhancement of the orbital, canalicular, and prechiasmatic segments of the right optic nerve. What would you do next?

90 Blurry Vision in a Patient With Leukemia

DA Mammo, AR Rachitskaya, and AD Singh

A patient with chronic myelogenous leukemia presented with blurry vision and peripapillary intraretinal and preretinal hemorrhages obscuring the optic disc margins of both eyes. What would you do next?

92 Homonymous Hemianopia With Normal Neuroimaging

J Ma, A Micieli, and JA Micieli

A 46-year-old man presented with a 2-week history of a persistent blurred area in his right lower visual field of both eyes and colors surrounding the dark area that lasted 2 to 3 minutes at a time and occurred multiple times per day. His medical history was significant for dyslipidemia and he also reported feeling lethargic, with polydipsia and a dull mild holocephalic headache. What would you do next?

OPHTHALMIC IMAGES

A Pigmented Vitreous Cyst Within the Posterior Precortical Vitreous Pocket

X Guo, B Lei, and Y Gao

This case report describes a 48-year-old woman with a ball-like floating cyst near the macula with limited movement when the eyes moved.

Video

Spoke-Wheel-Shaped Deposits Over Intraocular Lens

M Jain and R Kekunnaya

This case report describes a 13-year-old girl with a history of penetrating trauma who developed multiple spokelike deposits over the anterior and posterior surface of an intraocular lens.

Conjunctival Metastasis From Cutaneous Melanoma Demonstrating Complete Regression Following Checkpoint Inhibitor Therapy

JD DeSimone, SE Lally, and CL Shields

This case report describes a 74-year-old woman with cutaneous melanoma and conjunctival metastasis who underwent therapy with checkpoint inhibitors.

Letters

RESEARCH LETTER

94 Prevalence of Psychoactive Substance Use Among Middle-aged and Older Adults With Visual Impairment in the US

BH Han and Coauthors

This cross-sectional study estimates the prevalence of psychoactive substance use among middle-aged and older adults with visual impairment in the US.

COMMENT & RESPONSE

Managing Center-Involved Diabetic Macular Edema With Good Visual Acuity

95 JK Sun, AR Glassman, and LM Jampol

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96 MA Grassi

Broader Implications of Overminus Lens Therapy in Relation to Myopia Management

97 DI Flitcroft, MA Bullimore, and M Jong

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98 AM Chen

The Importance of the Intracranial Compartment in the Development of Spaceflight-Associated Neuro-ocular Syndrome

98 DR Roberts, HR Collins, and S Al Kasab

In Reply

99 K Marshall-Goebel, LA Kramer, and BR Macias