

In This Issue: February 2025

Research

ORIGINAL INVESTIGATION

91 Quantifying Patient Preferences and Expectations About Diabetic Retinopathy Monitoring

JM Gonzalez Sepulveda and Coauthors

This survey study conducted online among US adults with diabetes evaluates how patient preferences and expectations about diabetic retinopathy monitoring are associated with expected monitoring adherence behaviors.

99 Five-Year Outcomes of Lenadogene Nolpharvovec Gene Therapy in Leber Hereditary Optic Neuropathy

P Yu-Wai-Man and Coauthors
for the LHON Study Group

This RESCUE and REVERSE Long-Term follow-up (RESTORE) randomized clinical trial investigates the 5-year outcomes of lenadogene nolpharvovec gene therapy in patients with Leber hereditary optic neuropathy (LHON) due to the *MT-ND4* gene variant.

Invited Commentary 108

110 Efficacy and Safety of Mydriatic Microdrops for Retinopathy of Prematurity Screening: The MyMiROPS Randomized Clinical Trial

AK Seliniotaki and Coauthors

This randomized clinical trial examines the effectiveness of microdrops with phenylephrine and tropicamide for screening for retinopathy of prematurity in preterm infants compared with commercial mydriatics.

Visual Abstract

117 Geographic Distribution of US Ophthalmic Surgical Subspecialists

A Ahmed and Coauthors

This study assesses the geographic distribution of the ophthalmic-subspecialist surgeon workforce and evaluates factors associated with practicing in rural areas.

Invited Commentary 125

126 Safety and Vision Outcomes Following Gene Therapy for Bietti Crystalline Dystrophy: A Nonrandomized Clinical Trial

X Chen and Coauthors

This nonrandomized clinical trial among patients with Bietti crystalline dystrophy at 2 sites in China evaluates safety and vision outcomes following gene therapy with adeno-associated virus encoding CYP4V2.

Available online

jamaophthalmology.com

134 Efficacy and Safety of Different Atropine Regimens for the Treatment of Myopia in Children: Three-Year Results of the MOSAIC Randomized Clinical Trial

J Loughman and Coauthors

This secondary analysis of the 3-year results of the 24-Month Myopia Outcome Study of Atropine in Children (MOSAIC) randomized clinical trial investigates the efficacy and safety of different atropine eye drop regimens, 0.05% and 0.01%, in treating myopia progression in European eyes.

Visual Abstract

145 Representation Quotients to Examine Diversity in Ophthalmology Residency Applicants and Matriculants

SS Paracha and Coauthors

This cross-sectional study evaluates the racial, ethnic, and gender diversity of applicants and matriculants in ophthalmology residency programs relative to medical school graduates and analyzes the intersection of race and gender within this pathway.

Invited Commentary 152

155 Axial Growth and Myopia Progression After Discontinuing Soft Multifocal Contact Lens Wear

DA Berntsen and Coauthors

for the Bifocal Lenses in Nearsighted Kids (BLINK) Study Group

This cohort study examines additional data for children from the Bifocal Lenses in Nearsighted Kids (BLINK) Study to determine whether axial eye growth increases after discontinuing soft multifocal contact lenses for myopia control.

Invited Commentary 163

Online at
JMAAOphthalmology.com

AUDIO
Ultra-Widefield Optical Coherence Tomography Beyond the Ora Serrata in ROP

CME
CME online at
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DEPARTMENTS

Staff Listing 90

Contact Information 190



Editor in Chief
Neil M. Bressler, MD



continued >

In This Issue: February 2025

BRIEF REPORT

165 Ultra-Widefield Optical Coherence Tomography Beyond the Ora Serrata in Retinopathy of Prematurity

EV Roti and Coauthors

This cross-sectional study evaluates whether an investigational handheld ultra-widefield optical coherence tomography device without scleral depression can be used to document high-quality images of the peripheral retina for use in retinopathy of prematurity (ROP) examinations.

Audio

171 Temperature Excursion of Intravitreal Anti-VEGF Agents During Home Storage

I Ben Ghezala and Coauthors

This quality improvement study assesses patient adherence to temperature guidelines for home storage of anti-vascular endothelial growth factor (anti-VEGF) agents in France.

Invited Commentary 174

RESEARCH LETTER

184 Risk Factors for Retinopathy in Young Adults With Type 1 Diabetes

S Seyed Ahmadi and Coauthors

This cohort study investigates whether risk factors other than glucose control are associated with the development of diabetic retinopathy.

Opinion

INVITED COMMENTARY

108 Single-Eye Gene Therapy for Leber Hereditary Optic Neuropathy

HPN Scholl and B György

Related Article 99

125 The Rural Shortage of Ophthalmic Subspecialists

SY Wang

Related Article 117

152 Addressing Representation in Ophthalmology Training

K El-Jack, DA Padovani-Claudio, and BK Williams Jr

Related Article 145

163 Myopia Control—Are We Getting Any Closer?

LAF Kehler and DK Wallace

Related Article 155

174 Temperature Excursion of Patient-Purchased Anti-VEGF Agents—A Cause for Concern?

J Fan, HW Flynn Jr, and NA Yannuzzi

Related article 171

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Clinical Review & Education

JAMA OPHTHALMOLOGY

CLINICAL CHALLENGE

176 Progressive Eyelid Lesions in a Woman With Essential Thrombocythemia

AR Legala, MK Shoji, and DO Kikkawa

A 75-year-old woman with a history of essential thrombocythemia presented with 3 months of progressively enlarging right upper eyelid lesions. Examination revealed a thickened eyelid margin, madarosis, and erythema with some tenderness to palpation but an otherwise normal ocular examination. What would you do next?

CME

178 Bilateral Retinal Nerve Fiber Layer Thickening in a Middle-Aged Woman

I Zhu and AA Fawzi

A middle-aged Hispanic woman presented for evaluation of an asymptomatic epiretinal membrane in the left eye. She had an ocular history of amblyopia in the left eye, a medical history significant for chronic neuropathy, ataxia, and myelopathy of unknown etiology, and nystagmus on examination. Genetic testing revealed variants in the *SACS* and *SLC5A7* genes. What is your diagnosis?

CME

180 Bilateral Acute Optic Neuropathy in a Teenaged Girl

J Wu, Z Wang, and L Lang

A 14-year-old girl presents with sudden painless vision decline in the left eye for 5 days and reports constant fatigue, occasional dizziness, mild pain in the lower limbs, and intermittent claudication over the past 12 months with no history of trauma, surgery, COVID-19 infection, influenza, or other infection. What would you do next?

CME

182 Pediatric Patient Referred for an Optic Nerve Mass

JJ Grassmeyer, AH Skalet, and BK Young

A 13-year-old male patient was referred for evaluation of an optic nerve mass with decreased central vision and occasional pain. Examination revealed an afferent pupillary defect, a few vitreous cells, and an optic nerve lesion associated with a small peripapillary hemorrhage, peripapillary subretinal fluid, and scattered white lesions in the inferior retinal periphery. What would you do next?

CME

OPHTHALMIC IMAGES

Corneal Degeneration Secondary to Vernal Keratoconjunctivitis

H-X Wang, L Cui, and W-J Li

This case report describes a diagnosis of vernal keratoconjunctivitis in a man aged 35 years who presented with redness and itching of both eyes since age 8 years.

CME

Corneal Recovery After Neurotization for Neurotrophic Keratopathy

Y Chang, T Zhang, and X Liu

This case report describes a diagnosis of neurotrophic keratopathy after trigeminal nerve injury and subsequent corneal neurotization using the supraorbital nerve with sural nerve grafts.

Video | CME

Beaded Bubbles in the Eye After Vitrectomy and Gas Fill

Y Zhang, Y Gong, and Q Yi

This case report discusses the appearance of beaded bubbles after C3F8 gas fill in a patient who underwent vitrectomy for proliferative diabetic retinopathy.

CME

Letters

OBSERVATION

186 Fovea-Involved Outer Retinal Abnormality Induced by a Novel RET Inhibitor

L Yuan and Coauthors

This case report describes an outer retinal abnormality associated with taking a RET inhibitor during a clinical trial in a 52-year-old patient with right lung adenocarcinoma and a *RET* gene fusion.