

## In This Issue: June 2023

### Research

#### ORIGINAL INVESTIGATION

**516 Biometric Risk Factors for Angle Closure Progression After Laser Peripheral Iridotomy**  
YK Bao and Coauthors

This cohort study investigates the biometric factors associated with the development of angle closure disease in individuals with eyes at risk of primary angle closure after treatment with laser peripheral iridotomy.

Invited Commentary 524

**525 Association Between Myopia and Primary Open-Angle Glaucoma by Race and Ethnicity in Older Adults in the California Medicare Population**

M Yao and Coauthors

This cross-sectional study investigates the association between myopia and primary open-angle glaucoma in the 2019 California Medicare population and whether there was evidence of effect measure modification of this association by race and ethnicity.

Invited Commentary 532

Journal Club Slides

**534 Validity of Administrative Claims and Electronic Health Registry Data From a Single Practice for Eye Health Surveillance**

JS Wittenborn and Coauthors

This cross-sectional study evaluates the accuracy of data from administrative claims and electronic health records against retrospective medical record review.

Invited Commentary 541

Journal Club Slides

**543 Association of Biomarker-Based Artificial Intelligence With Risk of Racial Bias in Retinal Images**

AS Coyner and Coauthors

for the Imaging and Informatics in Retinopathy of Prematurity Consortium

This diagnostic study investigates whether conversion of fundus photographs to retinal vessel maps removes information relevant to self-reported race to mitigate artificial intelligence bias.

Invited Commentary 552

**554 Cost-Utility Comparison of Bevacizumab and Aflibercept in the Treatment of Central or Hemiretinal Vein Occlusion in the SCORE2 Trial**

SM Kymes and Coauthors

for the SCORE2 Investigator Group

This economic evaluation study evaluates the relative cost-effectiveness of bevacizumab vs aflibercept for treatment of macular edema associated with central or hemiretinal vein occlusion.

Invited Commentary 561

Available online

jamaophthalmology.com

**564 Disparities Associated with Discharge Patterns in Firearm-Associated Ocular Trauma**  
EV Mike and Coauthors

This study describes disposition patterns following admission for firearms-associated ocular trauma.

Invited Commentary 572

**574 Swab Pressing vs Stromal Hydration to Prevent Incision Leakage and Transient Collapse of Anterior Chamber in Phacoemulsification: A Randomized Clinical Trial**

Z Liu and Coauthors

This randomized clinical trial determines if swab pressing is noninferior to stromal hydration in sealing incisions and compares the efficacy of both techniques in preventing transient collapse of the anterior chamber in phacoemulsification for age-related cataract.

Visual Abstract | Video

**582 Efficacy of Smartphone-Based Telescreening for Retinopathy of Prematurity With and Without Artificial Intelligence in India**

BK Young and Coauthors

This cross-sectional study compares 2 smartphone-based fundus imaging systems in screening for retinopathy of prematurity.

#### BRIEF REPORT

**589 Performance of an Artificial Intelligence Chatbot in Ophthalmic Knowledge Assessment**  
A Mihalache, MM Popovic, and RH Muni

This cross-sectional study assesses the performance of the chatbot ChatGPT in answering text-based practice questions for the board certification examination from the OphthoQuestions free trial.

Editorial 514

#### Opinion

#### VIEWPOINT

**511 The Most Urgent Voice in Eye Research—The Patient's**  
J Todd and KN Baldonado

**512 Association of Serious Adverse Effects With the Contamination of Ocular Medications—A Global Perspective**

NV Prajna, N Radhakrishnan, and L Prajna

#### EDITORIAL

**514 What Artificial Intelligence Chatbots Mean for Editors, Authors, and Readers of Peer-Reviewed Ophthalmic Literature**  
NM Bressler

Related article 589

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Editor in Chief  
Neil M. Bressler, MD

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### INVITED COMMENTARY

**524 Use of Biometric Data After Laser Peripheral Iridotomy—Individualized Monitoring Strategy for Angle Closure Progression**

A Azuara-Blanco

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**532 The Myopia Epidemic, Glaucoma Risk, Race, and Ethnicity—Another Piece of the Puzzle**

LG Hyman and L Zangwill

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**541 Assessing the Quality of Big Data Is Critical as the Stakes Increase**

MV Boland

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**552 Artificial Intelligence Bias and Ethics in Retinal Imaging**

TF Tan, ZL Teo, and DSW Ting

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**561 Cost-Efficacy in the Study of Comparative Treatments for Retinal Vein Occlusion 2—Should We Consider Step Therapy for Retinal Vein Occlusion?**

ST Berkowitz and AP Finn

Related Article [554](#)

**572 Challenges Assessing Disparities in Patients Discharged After Firearm-Associated Ocular Injury**

AY Wu and AX-L Nguyen

Related Article [564](#)

### Clinical Review & Education

#### JAMA OPHTHALMOLOGY CLINICAL CHALLENGE

**598 Bilateral Hypopyon in a Young Woman**

SJ Sechrist, YS Zhang, and FL Brodie

A 28-year-old woman presented to the emergency department with a 5-day history of bilateral blurry vision, eye redness, discharge, photophobia, and pain. There were more than 20 cells per high-power field of 1 mm × 1 mm beam, with fibrin bilaterally and 2.5-mm hypopyon in the right eye and 2.7-mm hypopyon in the left eye. What would you do next?

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**600 Abnormal Eye Movements in a Young Girl**

SJ Sechrist, CM Glastonbury, and AG de Alba Campomanes

A 5-year-old girl was referred for nystagmus with a history of esophageal atresia, small bowel obstruction, mild cognitive impairment, low tone, and increased reflexes. Alternating vertical and torsional nystagmus was noted. What would you do next?

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**602 A 72-Year-Old Kidney Transplant Recipient With Visual Changes**

MT Bhatti, AL Gilbert, and TN Hwang

A 72-year-old woman with a history of kidney transplant was referred for an eye examination because of visual changes in the left eye. Both optic discs were anomalous in appearance, with central excavation in the left eye greater than the right eye. What would you do next?

Available online

#### OPHTHALMIC IMAGES

**603 Jellylike Bumps on Scleral Contact Lens of a Child Aged 13 Years**

M Bhagat and D Ghimire

This case report discusses the finding of calculi on the scleral contact lens of a 13-year-old child with a history of keratoconus.

Available online

**604 Pseudoexfoliative Deposits on an Intraocular Lens**

H Bhattacharjee, S Mishra, and M Garg

This case report discusses the finding of pseudoexfoliative material on the intraocular lens implant of a patient with a history of pseudoexfoliation syndrome and secondary glaucoma.

Available online

**605 Unilateral Conjunctivitis With Multifocal Granulomatous Lesions in a Child Aged 10 Years**

SM Arsenault, E Luse, and EJ Kim

This case report discusses a diagnosis of Parinaud oculoglandular syndrome in a child aged 10 years who presented with a granulomatous conjunctivitis in the left eye.

Available online

**606 Rapid Anterior Capsular Phimosis in a Patient Without Risk Factors for Anterior Capsule Contraction Syndrome**

R George, M Jayarajan, and P Chandran

This case report discusses anterior capsular phimosis in a patient without the typical risk factors for anterior capsule contraction syndrome.

Available online

#### Letters

#### RESEARCH LETTER

**604 Incidence of Eye Trauma in Children Associated With Foam Bullets or Foam Darts From Nonpowder Guns**

A Dentel and Coauthors

This case series estimates the annual incidence of pediatric eye injuries associated with recreational use of nonpowder guns at an ophthalmologic emergency department in France.

#### OBSERVATION

**605 Endophthalmitis Secondary to Fish Tank Granuloma**

X Chen and Coauthors

This case report describes an uncommon case of endophthalmitis secondary to fish tank granuloma.

**607 Compound Heterozygous LTBP2 Mutations Associated With Juvenile-Onset Open-Angle Glaucoma and Marfan-Like Phenotype**

Z Bergman, K Anderson, and RW Kuchtey

This case report describes a patient diagnosed at age 13 years with glaucoma who later presented with elevated intraocular pressure, severe cupping, open iridocorneal angle, and lens dislocation.

**609 Chronic Purulent Conjunctivitis Associated With Extensively Drug-Resistant *Pseudomonas aeruginosa***

TE Fowler and Coauthors

This case report describes a patient with a chronic urinary tract infection whose long-term treatment for right eye redness, discharge, pain, and decreased vision ultimately led to hospitalization and *Pseudomonas aeruginosa* resistant to multiple antibiotics.

#### COMMENT & RESPONSE

**Ophthalmological Findings in Youths With a Newly Diagnosed Brain Tumor**

610 JH Peragallo