

In This Issue: October 2025

Research

ORIGINAL INVESTIGATION

803 Optic Nerve Atrophy Conditions Associated With 3D Unsegmented Optical Coherence Tomography Volumes Using Deep Learning

D Szanto and Coauthors

This cross-sectional study uses clinical trial data to test whether a 3-dimensional deep learning model trained on unsegmented optical coherence tomography scans of the optic nerve head can reliably distinguish optic atrophy in both eyes with disease and healthy eyes.

Invited Commentary 811

813 Outcomes of Trabeculectomy With Mitomycin C in Patients of Hispanic vs European Descent

S Besharati and Coauthors

This study compares outcomes of initial trabeculectomy with mitomycin C in patients of Hispanic descent with those in patients of European descent and attempts to identify prognostic factors for failure.

Invited Commentary 821

823 Glucagon-Like Peptide-1 Receptor Agonists and Risk of Uveitis

N Mohan and Coauthors

This cohort study investigates if use of glucagon-like peptide-1 receptor agonists is associated with a reduced risk of developing noninfectious uveitis.

Invited Commentary 832

834 DeepSeek-R1 vs OpenAI o1 for Ophthalmic Diagnoses and Management Plans

D Mikhail and Coauthors

This cross-sectional study evaluates the diagnostic accuracy, management decision-making, and cost of DeepSeek-R1 vs OpenAI o1 across diverse ophthalmic subspecialties.

Invited Commentary 842

844 Metformin and the Development of Age-Related Macular Degeneration

DA Jindal and Coauthors

This cohort study examines whether there is an association between exposure to metformin and the development of any age-related macular degeneration (AMD) and its progression to geographic atrophy or neovascular AMD.

Invited Commentary 853

855 Ocular Risks of Topical Atropine Prescriptions Among Taiwanese Children

Y-L Liu and Coauthors

This cohort study investigates the ocular risks associated with atropine prescription for myopia control in Taiwanese children aged 8 to 15 years.

Invited Commentary 864

866 Smooth Pursuit Velocity After a Season of Repetitive Head Impacts in American Football Players

NG Murray and Coauthors

This study examines the association between repetitive head impacts and oculomotor control across a single division I American football season.

Invited Commentary 873

Audio

RESEARCH LETTER

876 Structural OCT Changes Following Repeated Low-Level Red-Light Therapy for Myopia Prevention

Z Zhang and Coauthors

This randomized clinical trial examines optical coherence tomography (OCT) changes following repeated low-level red-light therapy for myopia prevention to assess the treatment's efficacy and safety.

Online at
[JAMA Ophthalmology.com](https://www.jamaophthalmology.com)

AUDIO
Smooth Pursuit Velocity After a Season of Repetitive Head Impacts in American Football Players

CME
CME online at
[jamacmelookup.com](https://www.jamacmelookup.com)

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Opinion

INVITED COMMENTARY

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821 Glaucoma Surgery in Hispanic Individuals

TS Vajaranant, DP Edward, and CE Joslin

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832 Uveitis Risk and GLP-1RA Use—Signal, Confounding, or Both?

BC Toy and AT Hong

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842 DeepSeek-R1 vs Open-Weight AI in Ophthalmology

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853 Metformin and Age-Related Macular Degeneration—No Causal Evidence Yet

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864 Safety of Long-Term Use of Atropine for Myopia in Children

SS Vedula

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873 Behind the Eyes—Compensation and Complexity in Head Impacts

ZS Bellini and K Kawata

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Clinical Review & Education

OPHTHALMIC IMAGES

Exemestane-Associated Bilateral Maculopathy

M Li, W Yu, and X Zhang

This case report discusses a diagnosis of medication-associated maculopathy in a 44-year-old woman receiving exemestane treatment after breast cancer resection.

CME

Posterior Lenticonus and Intralenticular Cracks on School Visual Screening

T Wakabayashi, K Tsuboi, and K Wakabayashi

This case report discusses a diagnosis of posterior lenticonus with intralenticular cracks found during a school vision screening in a girl aged 8 years referred for decreased visual acuity in the left eye.

CME

Iridolenticular Burns After Panretinal Photocoagulation

S Varma and R Smallwood

This case report describes anterior-segment burns of the nasal pupillary margin with adjacent anterior lenticular opacities in a patient receiving panretinal photocoagulation for proliferative diabetic retinopathy.

CME

Volcanolike Retinal Detachment in High Myopia

J Meinke, FG Holz, and T Ach

This case report describes the grading and effects of myopic traction maculopathy in eyes with high myopia.

CME



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