

In This Issue: August 2025

Research

ORIGINAL INVESTIGATION

623 Generation of Fundus Fluorescein Angiography Videos for Health Care Data Sharing

X Wu and Coauthors

This study evaluates a text-to-video generative artificial intelligence model that converts text from reports into dynamic fundus fluorescein angiography videos, enabling visualization of retinal vascular and structural abnormalities.

Invited Commentary 632

634 Dynamic Risk of Systemic Complement Activation With Time to Progression to Advanced Age-Related Macular Degeneration

AM Lynch and Coauthors

This cohort study analyzes longitudinal measures of 25 systemic complement factors and ratios from patients with intermediate age-related macular degeneration (AMD) to determine their contribution to time to progression to advanced AMD.

643 Capsular Tension Ring Implantation for Intraocular Lens Position: A Systematic Review and Meta-Analysis

H Lin and Coauthors

This systematic review and meta-analysis examines published trials reporting the effect or association of capsular tension ring with postoperative anterior chamber depth and intraocular lens decentration, tilt, or rotation.

652 Predicting Retinal Nerve Fiber Layer Thickness From Ocular Hypertension Treatment Study Optic Disc Photographs

JC Liu and Coauthors

This diagnostic study predicts mean retinal nerve fiber layer (RNFL) thickness from optic disc photographs from the Ocular Hypertension Treatment Study and assesses the utility of predicted RNFL thickness as a risk factor for the development of primary open-angle glaucoma.

Invited Commentary 659

661 Uveal Melanoma and the Lynch Syndrome Tumor Spectrum

A Le Ven and Coauthors

This cohort study evaluates genetic variants predisposing to uveal melanoma.

669 Long-Term Cannabis Use and Risk of Postoperative Proliferative Vitreoretinopathy

AM Alshaihsalama and Coauthors

This cohort study examines data for patients with and without a history of cannabis use who underwent retinal detachment repair to assess the risk of developing proliferative vitreoretinopathy afterward.

Invited Commentary 676

678 Ophthalmic Knowledge Assessment Program Scores and Written Qualifying Examination Performance

C Thanitcul and Coauthors

This cohort study investigates the association between Ophthalmic Knowledge Assessment Program (OKAP) scores and Written Qualifying Examination performance based on a recent national cohort.

684 Diversified Segmental Defocus Optimization Lenses With and Without Atropine for Myopia Prevention: A Randomized Clinical Trial

Y Lu and Coauthors

This randomized clinical trial compares the use of diversified segmental defocus optimization lenses with and without atropine, 0.01%, for the prevention of myopia.

Visual Abstract

692 Founder Homozygous Nonsense CREB3 Variant and Variable-Onset Retinal Degeneration

M Salameh and Coauthors

This cohort study evaluates the association between a homozygous nonsense variant in CREB3 with inherited retinal diseases.

Invited Commentary 701

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BRIEF REPORT

703 Commercial Price Variation in Ophthalmology

AP Philips and C Whaley

This study assesses the variation in commercial insurance payment rates for common ophthalmology procedures across major national insurers and identifies patterns in professional and facility fees.

Invited Commentary 707

RESEARCH LETTER

713 Preflight Myopia and Visual Acuity Changes in Long-Duration Astronauts

JC Buckley, ME Zegans, and M Lan

This cohort study examines the association between preflight refraction and changes in visual acuity among long-duration astronauts.

Opinion

VIEWPOINT

621 Declaration of a Pandemic, 5 Years Later—Lessons Learned

A-M Ervin, AO Eghrari, and SK West

INVITED COMMENTARY

632 Text-to-Video Generation—A Cutting-Edge Generative AI Application

A Akhlaq and TYA Liu

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659 Optic Disc Photographs to RNFL Thickness—From Subjective to Objective

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676 Cannabis Use and Proliferative Vitreoretinopathy Risk Reduction

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701 Founder Homozygous CREB3 Variant Behind Retinal Degeneration

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707 Transparency in Ophthalmology Markets

ST Berkowitz, S Sharma, and KE Talcott

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Clinical Review & Education

JAMA OPHTHALMOLOGY CLINICAL CHALLENGE

709 Intermittent Diplopia Following Resolution of Nasopharyngeal Carcinoma

N Siranart and P Anukoolwittaya

A 37-year-old woman with a history of resolved nasopharyngeal carcinoma presented with transient binocular horizontal diplopia for 2 years. What would you do next?

Video | CME

711 Corneal Clouding in a 74-Year-Old Man

JM Neseemann, MA Nagy, and JM Schallhorn

A man aged 74 years presented with painless blurry vision in the right eye. Examination revealed a granular white opacity and prominent blood vessels in the corneal stroma, with no epithelial defect and no further findings on anterior or posterior examination. Limited workup was positive for herpes simplex virus 1 and 2 immunoglobulin G. The patient was given topical corticosteroids and oral valaciclovir, but the corneal opacity persisted. What would you do next?

CME

OPHTHALMIC IMAGES

Bilateral Intravitreal Injection of Methylprednisolone

T Zhang and X Huang

This case report discusses surgical management of retinal necrosis after unintentional injection of methylprednisolone into the vitreous cavity of a patient with nonarteritic anterior ischemic optic neuropathy.

CME

Leopard Spots in Antiglomerular Basement Membrane Disease

Y Zhou and S Jin

This case report discusses a diagnosis of Goodpasture syndrome in a patient aged 56 years who presented with 4 months of blurred vision and bilateral leopard spots on fundus examination.

CME

Hyphema and Yellow Floaters in a Patient With Hyperlipidemia

Y Yang, N Luo, and J Huang

This case report discusses the management of pain and elevated intraocular pressure in patient with persistent hypercholesterolemia who experienced penetrating ocular trauma 20 years prior.

CME

Retinal Arteriolar Emboli From Facial Triamcinolone Injection

X Sun, J Wang, and Y Li

This case report describes a diagnosis of retinal arteriolar emboli secondary to a facial triamcinolone injection for allergic dermatitis in a male patient aged 45 years.

CME

Letters

COMMENT & RESPONSE Recognizing Variants Prevalent in Particular Ancestries

714 OA Mahroo, S Lin, and AR Webster

Representation Issues in Ophthalmology Prior to Medical School

715 C Xu, MY Hou, and G Yiu

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715 SS Paracha and ME Migliori

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716 DC Klonoff and S Gombor

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717 CX Cai and J Chen

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