

In This Issue: April 2024

Research

ORIGINAL INVESTIGATION

283 Vision Impairment and Psychosocial Function in US Adults

L Almidani and Coauthors

This cross-sectional study evaluates associations between vision impairment and psychosocial outcomes in US adults.

292 Uncorrected Refractive Error in the African American Eye Disease Study

N Dhablania and Coauthors

for the African American Eye Disease Study Group
This cross-sectional study investigates the burden of uncorrected refractive error and unmet refractive need in African American individuals.

Invited Commentary 299

301 ATXN7-Related Cone-Rod Dystrophy: The Integrated Functional Evaluation of the Cerebellum (CERMOI) Study

M Nassisi and Coauthors

This study describes baseline ophthalmological biomarkers in spinocerebellar ataxia type 7 carriers included in the Integrated Functional Evaluation of the Cerebellum (CERMOI) cross-sectional study.

Invited Commentary 308

310 Polarization-Sensitive OCT Imaging of Scleral Abnormalities in Eyes With High Myopia and Dome-Shaped Macula

K Ohno-Matsui and Coauthors

This case series examines the orientation and density of scleral collagen fibers found on polarization-sensitive optical coherence tomography (PS-OCT) of highly myopic eyes with and without dome-shaped macula.

Invited Commentary 319

321 Accuracy of an Artificial Intelligence Chatbot's Interpretation of Clinical Ophthalmic Images

A Mihalache and Coauthors

This study evaluates the performance of the novel release of an artificial intelligence chatbot that is capable of processing imaging data.

327 Multinational External Validation of Autonomous Retinopathy of Prematurity Screening

AS Coyner and Coauthors

This diagnostic study evaluates how well autonomous artificial intelligence-based retinopathy of prematurity screening can detect more-than-mild and type 1 retinopathy of prematurity.

Invited Commentary 335

Available online

jamaophthalmology.com

337 Water-Free Cyclosporine Ophthalmic Solution vs Vehicle for Dry Eye Disease: A Randomized Clinical Trial

R Peng and Coauthors

This randomized clinical trial investigates the safety and effectiveness of a water-free cyclosporine ophthalmic solution, 0.1%, for dry eye disease.

Invited Commentary 343

Visual Abstract

345 Phase 2 Trial Evaluating Minocycline for Geographic Atrophy in Age-Related Macular Degeneration: A Nonrandomized Controlled Trial

TDL Keenan and Coauthors

This nonrandomized controlled trial investigates the safety and efficacy of oral minocycline in the treatment of geographic atrophy in age-related macular degeneration.

356 Polygenic Risk Scores for Glaucoma Onset in the Ocular Hypertension Treatment Study

RK Singh and Coauthors

This post hoc analysis of the Ocular Hypertension Treatment Study assesses whether a polygenic risk score improves prediction of primary open-angle glaucoma onset in patients with ocular hypertension.

Invited Commentary 364

365 Severe Intraocular Inflammation Following Intravitreal Faricimab

L Thangamathesvaran and Coauthors

This case series describes 3 initially culture-negative cases of acute, severe, posterior-segment intraocular inflammation events occurring within the same month following faricimab intravitreal injections at a single institution.

BRIEF REPORT

371 Assessment of a Large Language Model's Responses to Questions and Cases About Glaucoma and Retina Management

AS Huang and Coauthors

This cross-sectional study compares the diagnostic accuracy and comprehensiveness of responses from a large language model chatbot with those of fellowship-trained glaucoma and retina specialists on ophthalmological questions and real patient case management.

Invited Commentary 375



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RESEARCH LETTER

386 Prevalence and Features of Fungal Keratitis Among US Patients With Commercial Health Insurance

K Benedict, JAW Gold, and DJ Smith

This case series estimates fungal keratitis prevalence among US patients with commercial insurance.

Opinion

INVITED COMMENTARY

299 Toward Eliminating Visual Impairment Due to Refractive Error

BL VanderBeek

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308 Retinal End Points for ATXN7-Related Spinocerebellar Ataxia

JL Duncan

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319 Decoding Scleral Structures With Polarized Light

CK Chan and M Henao

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335 Is Artificial Intelligence for Retinopathy of Prematurity Ready to Go?

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343 Unraveling the Potential of Water-Free Cyclosporine in Dry Eye Disease

K Shah and MK Rhee

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F Li and X Zhang

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375 Large Language Models and the Shoreline of Ophthalmology

BK Young and PY Zhao

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EDITOR'S NOTE

377 Safely Viewing a Solar Eclipse

NM Bressler

+ Available online

jamaophthalmology.com

Clinical Review & Education

JAMA OPHTHALMOLOGY
CLINICAL CHALLENGE**378 Bilateral Blurry Vision After a Liver Transplant**

W Cai, X Chen, and X Ding

A 31-year-old woman presented for evaluation of bilateral blurry vision over the past month. She experienced fulminant hepatic failure 3 months ago and underwent a liver transplant 2 weeks later. Postoperative pathological results showed hepatolenticular degeneration. What would you do next?

+ CME

380 Maculopathy in a 52-Year-Old Patient With Diabetes

A Kwok, C Ercanbrack, and S Uwaydat

A 52-year-old woman with severe nonproliferative diabetic retinopathy had decreased vision and macular edema in both eyes that was not responding to treatment. What would you do next?

+ CME

382 A Suspicious Pigmented Lesion of the Conjunctiva

K Murillo, K Acuff, and NL Scott

A 74-year-old woman with a history of breast cancer, now in remission, presented for evaluation of a conjunctival lesion of the right eye. What would you do next?

+ CME

384 A Case of a Bumpy Retina

S Zafar, A Gonzales, and S Cai

A 77-year-old male had 3 months of progressive vision decline in the left eye. Dilated fundus examination revealed diffuse hyperpigmented lesions involving the macula and superior fundus that corresponded to areas of nodular retinal pigment epithelium thickening on optical coherence tomography. What would you do next?

+ CME

OPHTHALMIC IMAGES

+ Leukocoria Due to Persistent Hyperplastic Primary Vitreous

S Liu, L Hao, and X Qin

This case report discusses a diagnosis of persistent hyperplastic primary vitreous presenting as leukocoria in a boy aged 50 days.

+ CME

+ Bilateral Eyelid Polyposis Due to Eccrine Hidrocystoma

CY Teoh, ELM Tai, and WM Wan Md Kasim

This case report discusses a diagnosis of eccrine hidrocystoma in a female patient aged 65 years who presented with bilateral, painless eyelid masses.

+ CME

+ Morning Glory Syndrome in a Newborn Aged 2 Weeks

FP Giuffrida, M Nassisi, and S Osnaghi

This case report describes a diagnosis of morning glory syndrome in a 2-week-old infant who presented with divergent strabismus, cleft lip, and hypertelorism.

+ CME

+ Serpiginous Endothelial Exudates in a 15-Year-Old Boy

S Limbu, S Yangzes, and SR Singh

This case report discusses the accumulation of endothelial exudates in a boy aged 15 years after lensectomy for endophthalmitis.

+ CME

Letters

OBSERVATION

388 Sudden Death in a Child With Ocular Lesions

BE Martin and Coauthors

This case report describes a patient treated for ocular lesions who died suddenly at age 8 years and was diagnosed postmortem with Carney complex.

389 Association of Conjunctival Ulceration With Pembrolizumab

B Kuhar, J Bailey, and J Aeum

This case report describes a patient with conjunctival ulceration following pembrolizumab therapy for breast cancer.

COMMENT & RESPONSE

Uncertain Diagnostic Accuracy of Self-Monitoring Vision at Home

391 EA Gidman and B Reeves

In Reply

392 K Balaskas and G Zhang

Factors Beyond Carbon Footprint of Live vs Virtual Eye Meetings

392 G Quiney