

In This Issue: April 2023

Research

ORIGINAL INVESTIGATION

305 Estimation of Visual Function Using Deep Learning From Ultra-Widefield Fundus Images of Eyes With Retinitis Pigmentosa

D Nagasato and Coauthors

This cross-sectional study investigates whether deep learning can estimate the visual function of eyes with retinitis pigmentosa from ultra-widefield fundus images.

Invited Commentary 313

315 Diagnostic Accuracy of the Amsler Grid Test for Detecting Neovascular Age-Related Macular Degeneration: A Systematic Review and Meta-analysis

J Bjerager and Coauthors

This systematic review and meta-analysis evaluates the diagnostic accuracy of the Amsler grid test in the diagnosis of neovascular age-related macular degeneration.

Journal Club Slides

324 Incidence of Glaucoma-Related Adverse Events in the First 5 Years After Pediatric Lensectomy

ED Bothun and Coauthors

for the Pediatric Eye Disease Investigator Group

This cohort study assesses the cumulative incidence of glaucoma-related adverse events and factors associated with these adverse events in children during the first 5 years after lensectomy.

Invited Commentary 331

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333 Evaluation and Follow-up of Myopia Prevalence Among School-Aged Children Subsequent to the COVID-19 Home Confinement in Feicheng, China

J Wang and Coauthors

This cross-sectional study uses school-based photoscreening data to investigate changes in refractive status and prevalence of myopia in children in China after COVID-19 home confinement.

Invited Commentary 340

342 Factors Associated With Nasolacrimal Duct Probing Failure Among Children in the Intelligent Research in Sight Registry

I Oke and Coauthors

for the IRIS Registry Analytic Center Consortium

This cohort study uses data from the Intelligent Research in Sight (IRIS) Registry to assess factors associated with repeated nasolacrimal duct probing among US children.

Audio

Available online

jamaophthalmology.com

349 Association of Rates of Ganglion Cell and Inner Plexiform Thinning With Development of Glaucoma in Eyes With Suspected Glaucoma

V Mohammadzadeh and Coauthors

This cohort study examines data for patients with suspected glaucoma to gauge the association of rates of thinning in the ganglion cell and inner plexiform layer with development of perimetric glaucoma.

Invited Commentary 357

358 Comparison of Incremental Costs and Medicare Reimbursement for Simple vs Complex Cataract Surgery Using Time-Driven Activity-Based Costing

DS Portney and Coauthors

This economic evaluation examines data from a single academic institution for day-of-surgery costs between simple and complex cataract surgery to determine whether Medicare reimbursement offsets the difference.

Invited Commentary 364

366 Incidence and Progression of Diabetic Retinopathy in American Indian and Alaska Native Individuals Served by the Indian Health Service, 2015-2019

SJ Fonda and Coauthors

This cohort study investigates the rates of incidence and progression for diabetic retinopathy in American Indian and Alaska Native individuals.

Invited Commentary 376

378 Financial Disclosures Reported by Industry Among Authors of the American Academy of Ophthalmology Clinical Practice Guidelines

AX-L Nguyen and Coauthors

This cross-sectional study assesses financial disclosures reported by physician authors of the American Academy of Ophthalmology (AAO) Practice Pattern Guidelines compared with those reported by industry to evaluate the disclosures' accuracy.

Invited Commentary 383

385 Perfluorohexyloctane Eye Drops for Dry Eye Disease Associated With Meibomian Gland Dysfunction in Chinese Patients: A Randomized Clinical Trial

L Tian and Coauthors

This randomized clinical trial investigates the effectiveness and safety of perfluorohexyloctane eye drops for the treatment of dry eye disease associated with meibomian gland dysfunction in Chinese patients.

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Online at
JMAOphthalmology.com

AUDIO

Incidence of Glaucoma-Related Adverse Events Following Pediatric Lensectomy Factors Associated With Nasolacrimal Duct Probing Failure Among Children in the IRIS Registry

CME

CME quizzes online at
jamacmelookup.com

CME Disclosure Statement: Unless noted, all individuals in control of content reported no relevant financial relationships. If applicable, all relevant financial relationships have been mitigated.

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Editor in Chief
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GD Seitzman and TM Lietman

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Clinical Review & Education

JAMA OPHTHALMOLOGY CLINICAL CHALLENGE

394 Acute-Onset Orbital Inflammation in a Patient With Multiple Myeloma

G Villatoro, N Topilow, and CY Liu

A 72-year-old man had right-eye conjunctival injection, chemosis, eyelid edema, and pain with eye movements. Examination showed visual acuity of 20/50, reduced ocular motility in all gazes, proptosis, and chemosis. Treatment with vancomycin and ceftriaxone and ampicillin-sulbactam was followed by symptom worsening. What would you do next?

CME

396 Monocular Vision Loss in a Patient With Earache and Night Sweats

S Schimansky, G Cross, and B Mulhearn

A 62-year-old patient had a history of painless vision loss in her right eye, right ear pain and fullness, sinus discomfort, nasal congestion without discharge, drenching night sweats, cramps in her quadriceps, and weight loss. Examination revealed normal tympanic membranes and a dry but otherwise normal nasal mucosa on flexible endoscopy. What would you do next?

CME

398 A Case of Acute Chest Pain After Acetazolamide to Treat Uncontrolled Increased Intraocular Pressure

O Anibire, H Al-Khersan, and BK Williams Jr

A 61-year-old man with uncontrolled increased intraocular pressure after cataract surgery was treated with acetazolamide. Three days later, he developed acute chest pain requiring emergency treatment. What would you do next?

CME

OPHTHALMIC IMAGES

Retinal Aneurysms in Myopic Traction Maculopathy

M Nguyen and G Yiu

This case report describes retinal telangiectatic vessels and aneurysms in a woman aged 23 years with a history of pathologic myopia.

CME

Primary Iris Stromal Cyst in a Female Patient Aged 26 Years

N Alhalabi, D Alia, and A Alhasan

This case report describes a diagnosis of primary iris stromal cyst in female patient aged 26 years during a routine ophthalmologic examination.

CME

Visualization of Short Posterior Ciliary Artery Insertion Due to Posterior Staphyloma and Myopic Chorioretinal Atrophy

GV Moreira, EF Marback, and RL Leitão Guerra

This case report describes the visualization of a short posterior ciliary artery insertion as a result of posterior staphyloma and chorioretinal atrophy in a patient in their 50s with pathologic myopia.

CME

Morgagnian Cataract With Liquefied Nuclear Cleft

J Fan and BE Goldhagen

This case report discusses a diagnosis of morgagnian cataract with liquefied nuclear cleft in a patient in his 60s who presented with gradually decreasing visual acuity.

CME

Letters

OBSERVATION

400 Structural Changes in Acute Macular Neuroretinopathy Revealed With Adaptive Optics Optical Coherence Tomography

S Kadomoto and Coauthors

This case report discusses using adaptive optics imaging in a patient with acute macular neuroretinopathy with retinal structural changes.

402 Severe Corneal Involvement Associated With Mpox Infection

S Doan and Coauthors

This article discusses 2 cases of severe corneal involvement during mpox.

COMMENT & RESPONSE Optical Coherence Tomography Angiography and Corresponding Histology

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404 A Berlin, KB Freund, and CA Curcio

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406 TS Raghuvver, RE Zackula, and H Okut

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