

In This Issue: September 2021

Research

ORIGINAL INVESTIGATION

937 Ophthalmic Injuries After the Port of Beirut Blast—One of Largest Nonnuclear Explosions in History

WJ Kheir and Coauthors

This study reports the ocular injuries sustained by survivors of the Port of Beirut blast in Beirut, Lebanon, on August 4, 2020.

Invited Commentary 943

946 Evaluation of Intravitreal Aflibercept for the Treatment of Severe Nonproliferative Diabetic Retinopathy: Results From the PANORAMA Randomized Clinical Trial

DM Brown and Coauthors

This randomized clinical trial evaluates whether treatment with intravitreal aflibercept vs sham injections results in anatomic improvement from baseline through 100 weeks in eyes with moderately severe to severe nonproliferative diabetic retinopathy and no diabetic macular edema.

Visual Abstract | Journal Club Slides

956 SARS-CoV-2 on Ocular Surfaces in a Cohort of Patients With COVID-19 From the Lombardy Region, Italy

C Azzolini and Coauthors

This cohort study investigates the presence of SARS-CoV-2 in tears collected from patients with COVID-19 by means of a reverse transcription-polymerase chain reaction assay and assesses the association of virus presence with concomitant clinical conditions.

964 Validation and Clinical Applicability of Whole-Volume Automated Segmentation of Optical Coherence Tomography in Retinal Disease Using Deep Learning

M Wilson and Coauthors

This diagnostic study evaluates a deep learning model for whole-volume segmentation of 4 clinically important pathological features as well as clinical applicability.

Invited Commentary 973

Video

975 Application of 5G Technology to Conduct Real-Time Teleretinal Laser Photocoagulation for the Treatment of Diabetic Retinopathy

H Chen and Coauthors

This study assesses the feasibility of real-time telephotocoagulation treatment for diabetic retinopathy.

Video

Available online

jamaophthalmology.com

983 Minimally Invasive Glaucoma Surgical Techniques for Open-Angle Glaucoma: An Overview of Cochrane Systematic Reviews and Network Meta-analysis

AK Bicket and Coauthors

This meta-analysis examines systematic reviews conducted by Cochrane Eyes and Vision to evaluate techniques and devices used in minimally invasive glaucoma surgeries alone or with cataract extraction.

990 Effect of Combined Atropine and Patching vs Patching Alone for Treatment of Severe Amblyopia in Children Aged 3 to 12 Years: A Randomized Clinical Trial

S Wang and Coauthors

This randomized clinical trial compares the efficacy of combined atropine and patching therapy vs patching alone in children with severe amblyopia.

Invited Commentary 996

Visual Abstract

998 Home-Use Evaluation of a Wearable Collision Warning Device for Individuals With Severe Vision Impairments: A Randomized Clinical Trial

S Pundlik and Coauthors

This randomized clinical trial evaluates the effect of a collision warning device on the number of contacts experienced by blind and visually impaired people in their daily mobility.

Invited Commentary 1005

Visual Abstract | CME

1007 Efficacy of a Web App–Based Music Intervention During Cataract Surgery: A Randomized Clinical Trial

G Guerrier and Coauthors

This randomized clinical trial describes the effects of a web app–based music intervention on the incidence of hypertension in patients during cataract surgery performed under local anesthesia.

Invited Commentary 1013

Visual Abstract | CME

1015 Presumed SARS-CoV-2 Viral Particles in the Human Retina of Patients With COVID-19

CA Araujo-Silva and Coauthors

This case series describes the presence of presumed SARS-CoV-2 viral particles in the retina of individuals who died of COVID-19.

Invited Commentary 1021

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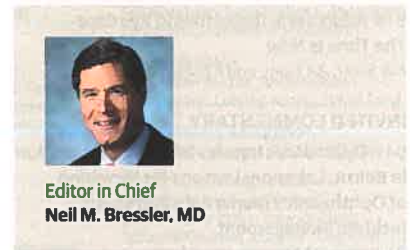
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Neil M. Bressler, MD



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BRIEF REPORT

1023 Association of Monogenic and Polygenic Risk With the Prevalence of Open-Angle Glaucoma

OM Siggs and Coauthors

This cross-sectional study compares polygenic and monogenic variants associated with risk of glaucoma.

1029 Clinical and Histopathologic Correlates of Asymmetric Retinitis Pigmentosa

T Lal and Coauthors

This case report evaluates whether additional information can be obtained about asymmetric RP from studying clinical imaging and pathology correlates, including pathology samples from autopsied eyes.

Opinion

VIEWPOINT

935 Addressing Disparities in Eye Care—The Time Is Now

AW Scott, AR Elam, and K Nwanyanwu

INVITED COMMENTARY

943 Ophthalmic Injuries in the Port Explosion in Beirut, Lebanon: Lessons for Provision of Ophthalmic Trauma Care and Major Incident Management

RJ Blanch, RA Mazzoli, and K Porter

Related Article 937

973 Deep Learning–Based Automated Optical Coherence Tomography Segmentation in Clinical Routine: Getting Closer

BS Gerendas, H Bogunović, and U Schmidt-Erfurth

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996 Patching and Atropine for Severe Amblyopia: Are Both Better Than Patching Alone?

DC Musch and JD Baker

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1005 The Complexity of Integrating Observations Into Observational Research

G McGwin Jr and C Owsley

Related Article 998

1013 Masking Is Not Just for COVID-19

JM Schallhorn and J Rose-Nussbaumer

Related Article 1007

1021 Identification of COVID-19 Virus in Human Intraocular Tissues

NA Syed and C Grose

Related Article 1015

Clinical Review & Education

JAMA OPHTHALMOLOGY CLINICAL CHALLENGE

1033 Subacute Vision Loss in a 37-Year-Old Man With a Rash

AT Melson and AD Patel

A 37-year-old man presents with subacute vision loss after experiencing malaise, low-grade fever, and a rash 2 weeks earlier. The rash persists on his scalp and extremities. What would you do next?

1035 Bilateral Visual Acuity Loss in a 28-Year-Old Man With Duchenne Muscular Dystrophy

M Kecik, A Stangos, and A Malclès

A 28-year-old man with Duchenne muscular dystrophy but no ophthalmic history presents with recent visual acuity loss. What would you do next?

1037 Split Down the Middle of the Fovea

MP Breazzano and S Chang

A woman presents with blurred vision with slight metamorphopsia in the right eye. Imaging showed hyperreflective layering on the foveal surface and splitting of the outer plexiform layer. What would you do next?

1039 Metamorphopsia in a Middle-aged Man

BJ Fowler, JL Nguyen, and J Sridhar

A 47-year-old man with a history of hypertension, obesity, left adrenalectomy, and pterygium excision surgery presents with gradual onset of blurry vision in both eyes for several months. What would you do next?

OPHTHALMIC IMAGES

▣ Hypoplastic Vitreous in Stickler Syndrome

M Ortiz-Salvador, J Montero-Hernández, and R Freiria-Barreiro

This case report describes a 9-year-old patient with a presumed ocular-only variant of Stickler syndrome.

▣ Polycoria Due to Extensive Persistent Pupillary Membranes

S Mohan and S Mohan

This case report describes a man in his 40s with best-corrected visual acuity of 20/20 OU who had extensive iris strands in the anterior segment of the right eye, causing multiple pupillary openings in the iris.

Letters

COMMENT & RESPONSE

Live and Replication-Competent SARS-CoV-2 in Ocular Fluids

1041 F Colavita and Coauthors

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In Reply

1041 C Azzolini, S Donati, and E Premi

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▣ Available online