Editorial: Alphabet Soup: Clinical Pearls for the Retina Specialist—Ocular Toxicity of Advanced Antineoplastic Agents in Systemic Cancer Care
Victor M. Villegas, MD, Timothy G. Murray, MD, MBA

Original Articles

Clinical and Morphologic Characteristics of Extracellular Signal-Regulated Kinase Inhibitor-Associated Retinopathy
Jasmine H. Francis, MD, Julia Canestraro, OD, Dianna Haggag-Lindgren, BS, James J. Harding, MD, Eli L. Diamond, MD, M. Phil, Alexander Drilon, MD, Bob T. Li, MD, Gopa Iyer, MD, Alison M. Schram, MD, David H. Abramson, MD
Extracellular signal-regulated kinase inhibitors are associated with self-limited serous detachments of the neuroretina. The morphologic and clinical characteristics are similar to, but also distinct from, the retinopathy associated with mitogen-activated protein kinase kinase inhibitors.

Subthreshold Nanosecond Laser in Age-Related Macular Degeneration: Observational Extension Study of the LEAD Clinical Trial
Robyn H. Guymer, MBBS, PhD, Fred K. Chen, MBBS(Hons), PhD, Lauren A.B. Hodgson, MPH, Emily Caruso, BOrth, Colin A. Harper, MBBS, Samjeewa S. Wickremasinghe, DMedSc, Amy C. Cohn, MBBS, MMed, Pryna Raj Sivarajah, BOrth, Nicole Tindill, BBus(BIS), Chi D. Luu, PhD, Zhichao Wu, BAppSc(Optom), PhD, for the LEAD Study Group
The long-term effects of a subthreshold nanosecond laser treatment for slowing the development of late age-related macular degeneration were examined through an additional 24-month observational extension study of the LEAD Study.

On the cover: “Oguchi disease” by Thoguluva Prabhakaran Vignesh, MS, Kim Ramasamy, DNB, Bharathi Singaravel, BSc. (Photographer) (Aravind Eye Care System, Anna Nagar, Madurai, Tamil Nadu, India). Equipment: Clarus™500 (Carl Zeiss Meditech Inc).
Longitudinal Assessment of Ellipsoid Zone Integrity, Subretinal Hyperreflective Material, and Subretinal Pigment Epithelium Disease in Neovascular Age-Related Macular Degeneration
Justis P. Ehlers, MD, Robert Zahid, PharmD, MBA, Peter K. Kaiser, MD, Jeffrey S. Heier, MD, David M. Brown, MD, Xiangyi Meng, PhD, Jamie Reese, BSN, Thy K. Le, BA, Leina Lunasco, Ming Hu, PhD, Sunil K. Srivastava, MD
Ellipsoid zone integrity and subretinal hyperreflective material (SHRM) improved with anti–vascular endothelial growth factor treatment in eyes with neovascular age-related macular degeneration. Ellipsoid zone integrity and SHRM volume were predictors of visual acuity.

Persistent Hypertransmission Defects on En Face OCT Imaging as a Stand-Alone Precursor for the Future Formation of Geographic Atrophy
Yingying Shi, MD, Jin Yang, MD, PhD, William Feuer, MS, Giovanni Gregori, PhD, Philip J. Rosenfeld, MD, PhD
The presence of persistent choroidal hypertransmission defects on custom en face OCT images can be used as a stand-alone precursor for the progression of drusen to geographic atrophy in age-related macular degeneration.

A Novel Method to Detect and Monitor Retinal Vasculitis Using Swept-Source OCT Angiography
Jila Noori, MD, Yingying Shi, MD, Jin Yang, MD, Giovanni Gregori, PhD, Thomas A. Albini, MD, Philip J. Rosenfeld, MD, PhD, Janet L. Davis, MD
OCT angiography detects perivascular retinal thickening secondary to retinal vasculitis, and it may serve as an alternative to fluorescein angiography to diagnose and monitor retinal vasculitis in the posterior pole.

Deep Learning Approach for Automated Detection of Myopic Maculopathy and Pathologic Myopia in Fundus Images
Ran Du, MD, Shiqi Xie, MD, Yuxin Fang, PhD, Tae Igarashi-Yokoi, MD, Muka Moriyama, MD, Satoko Ogata, MS, Tatsuhiko Tsunoda, PhD, Takashi Kamatani, MD, Shinji Yamamoto, BS, Ching-Yu Cheng, MD, Seang-Mei Saw, MD, Daniel Ting, MD, Tien Y. Wong, PhD, Kyoko Ohno-Matsui, PhD
Deep learning algorithms and Meta-analysis for Pathologic Myopia study categorizing systems can be used to assist in the screening of pathologic myopia and categorizing myopic maculopathy. This system has high sensitivity and specificity.
Patterns and Characteristics of a Clinical Implementation of a Self-Monitoring Program for Retina Diseases during the COVID-19 Pandemic
Kelvin Yi Chong Teo, MBBS, Lucas M. Bachmann, PhD, Dawn Sim, PhD, Shu Yen Lee, FRCS(Ed), Anna Tan, MBBS, Tien Y. Wong, PhD, Chui Ming Gemmy Cheung, FRCOphth, Gavin Siew Wei Tan, PhD

The authors describe the large-scale recruitment for a self-monitoring initiative for retina disease. These findings can help us to devise strategies to encourage participation and compliance.

Epiretinal Membrane Surgery Using Intraoperative OCT-Guided Membrane Removal in the DISCOVER Study versus Conventional Membrane Removal
Tisileli S. Tuifua, BSc, Arjun B. Sood, MD, Joseph R. Abraham, MD, Sunil K. Srivastava, MD, Peter K. Kaiser, MD, Sumit Sharma, MD, Aleksandra Rachitskaya, MD, Rishi P. Singh, MD, Jamie Reese, BSN, Justis P. Ehlers, MD

Intraoperative OCT use in pars plana vitrectomy for epiretinal membrane provides similar clinical and anatomic outcomes to conventional pars plana vitrectomy with compulsory internal limiting membrane peel.

Vitreous and Chorioretinal Lesions in People Who Inject Drugs and Are Hospitalized with Bloodstream and Related Infections
Margaret A. Greven, MD, Jessica E. Weinstein, MD, Katherine A. Tsamis, MD, Scott A. Vadala, MD, Erin W. Barnes, MD, James E. Peacock Jr., MD

Patients with systemic infections related to injection drug use may have vitreous and chorioretinal findings even in the absence of ocular symptoms.

Genotype and Long-term Clinical Course of Bietti Crystalline Dystrophy in Korean and Japanese Patients
Yusuke Miurakami, MD, PhD, Yoshito Koyanagi, MD, PhD, Masatoshi Fukushima, MD, Marika Yoshimura, MD, Koba Fujitama, MD, PhD, Makito Akiyama, MD, PhD, Yukihide Momoizawa, MD, Shintji Ueno, MD, PhD, Hiroko Terasaki, MD, PhD, Akio Oishi, MD, PhD, Manabu Miyata, MD, PhD, Hanako Iida, MD, PhD, Akitaka Tsukitama, MD, PhD, Kei Mizobuchi, MD, PhD, Takaaki Hayashi, MD, PhD, Kaoru Fujinami, MD, PhD, Kazushige Tsubinoda, MD, PhD, Jun Young Park, MD, Jin Han, MD, Min Kim, MD, PhD, Christopher Seungleyu Lee, MD, PhD, Sang Jin Kim, MD, PhD, Tae Kwann Park, MD, Kyoungsoo Joo, MD, PhD, Se Joon Woo, MD, PhD, Yasuhito Ikeda, MD, PhD, Koh-Hei Sonoda, MD, PhD

Bietti crystalline dystrophy with c.802-8_810del17insGC homozygote, the most frequent genotype in the East Asian population, showed comparable visual decline and progression with other genotypes in the spectrum of CYP4V2 retinopathy.
Cost-Utility Analysis of Mycophenolate Mofetil versus Methotrexate for Noninfectious Uveitis

Hasenin Al-khersan, MD, Benjamin J. Fowler, MD, PhD, Kevin D. Clauss, MD, Anne L. Kunkler, MD, Nicolas A. Yannuzzi, MD, Nimesh A. Patel, MD, Jayanth Sridhar, MD, Thomas A. Albini, MD, William E. Smiddy, MD

Resident Participation and Patient Outcomes in Vitreoretinal Surgery

Robert G. Tauscher, MD, Jeremy A. Lavine, MD, PhD

The Impact of Frailty on Outcomes of Open-Globe Injury in the Geriatric Population

Roger K. Henry, BS, MBS, Aditya Uppuluri, MD, Paul D. Langer, MD, Marco A. Zarbin, MD, PhD, Neelakshi Bhagat, MD

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Reply

Gregg T. Kokame, MD, MMM

Mantle Cell Lymphoma with Bilateral Intraocular Involvement

Alexander Zeleny, BA, Rahul Lakhota, MD, Shilpa Kodati, MD

Outer Retinal Disruption in Spinocerebellar Ataxia Type 1

Benjamin W. Botsford, MD, Cristiano Oliveira, MD, Thamos D. Papakostas, MD