DIABETIC RETINOPATHY

POSTER #T1 The Relationship Between Diabetic Macular Edema and Proliferative Diabetic Retinopathy  
John O’Fee, BS

POSTER #T2 Retinal Neovascularization as Self-Organized Criticality on Ultra-Widefield Fluorescein Angiography Imaging of Diabetic Retinopathy  
Benjamin Young, MD, MS

SURGERY

POSTER #T3 Surgical Techniques in Secondary IOL Surgery: ACIOL Explanation, Pars Plana Vitrectomy, and Akreos IOL Implantation  
Noy Ashkenazy, MD

POSTER #T4 Clinical Versus Optical Coherence Tomography (OCT) Based Reattachment Following Pneumatic Retinopexy for Rhegmatogenous Retinal Detachment  
William Carrera, MD, MS

POSTER #T5 Comparison of Surgical Techniques for Dislocated Intraocular Lenses (IOLs)  
Jonathan Chang, MD

POSTER #T6 Retinal Displacement Following Incisional Rhegmatogenous Retinal Detachment Repair  
Michael Cohen, MD

POSTER #T7 Impact of Preoperative EIFL and DRIL on Visual Outcomes in Pseudophakic Eyes with Epiretinal Membranes  
Omar Dajani, MD

POSTER #T8 Risk Factors for Retinal Detachment Following Open Globe Injury and Outcomes of Retinal Detachment Repair Following Ocular Trauma  
Asad Durrani, MD

POSTER #T9 Outcomes of Subretinal Fluid Drainage Methods in Pars Plana Vitrectomy for Primary Retinal Detachment  
Jose Echegaray, MD

POSTER #T10 Pars Plan Vitrectomy for Idiopathc Epiretinal Membrane: Optical Coherence Tomography Biomarkers of Visual Outcomes in 322 Eyes  
Ali Khan, MD

POSTER #T11 Single Cell Transcriptomic Profiling of Patient-Derived Membranes in Proliferative Vitreoretinopathy  
Leo Kim, MD, PhD

POSTER #T12 Amniotic Membrane Patching to Assist Closure of Recalcitrant Macular Holes  
Jessica Lee, MD
OTHER

POSTER #13 The Relationship Between Stopper Position and Injection Volume in Ranibizumab and Aflibercept Prefilled Syringes
John Hinkle, MD

SURGERY

POSTER #14 Greenhouse Gas Emissions Related to Intraocular Gas Usage in Vitreoretinal Surgery
William Mieler, MD

POSTER #15 Intravitreal Methotrexate for Proliferative Vitreoretinopathy (PVR) Prevention in Patients Undergoing Primary Retinal Detachment Repair (RRD) and a History of Contralateral PVR
Carl Noble, DO, MBA

POSTER #16 Incidence, Management and Surgical Outcomes of Macular Splitting Rhegmatogenous Retinal Detachment
Patrick Oellers, MD

POSTER #17 Evolution in the Management of Uncomplicated Rhegmatogenous Retinal Detachments over a Ten-Year Period at the Wilmer Eye Institute
Sally Ong, MD

POSTER #18 Pars Plana Vitrectomy without Intravenous Anesthesia: Technique, Safety, and Outcomes
Erica Podesto, BA

POSTER #19 A Comparison of Junior and Senior Vitreoretinal Surgeon Performance on a Surgical Simulator Following Caffeine, β-blockers, or Both
Mitchell Wolf, MD

POSTER #20 Surgical Failures After Primary Scleral Buckling for Rhegmatogenous Retinal Detachment: Comparison of Eyes with and without Proliferative Vitreoretinopathy
Miratollah Salabati, MD

POSTER #21 Minimizing Sclerotomy Suture Rates in 23-Gauge Vitrectomy
Asheesh Tewari, MD

POSTER #22 Outcomes Following Rhegmatogenous Retinal Detachment Repair with Scleral Buckle Surgery
Sushant Wagley, MD

POSTER #23 Modulation of Pyruvate Kinase M2 Activity as a Therapeutic Strategy in Proliferative Vitreoretinopathy
Thomas Wubben, MD, PhD

AGE-RELATED MACULAR DEGENERATION

POSTER #24 Cuticular Drusen: Analysis of Genetics with Clinical Features and Complications
Mark Breazzano, MD

POSTER #25 Anterior Chamber Paracentesis Before Intravitreal Injection in Eyes with Advanced Glaucoma Does Not Reduce Risk of Glaucoma Progression Based on Ganglion Cell Layer Attenuation: A Case-Control Study
Adam Chin, MD

POSTER #26 Plasma Metabolomic Profiles Associated with Three-Year Progression of Age-Related Macular Degeneration
Inês Laíns, MD, PhD
Poster Sessions

**Predictors of Disease Activity Post Treatment of Neovascular Age-Related Macular Degeneration**
Louis Lim, MBBS, MMed (Ophth)

**Correlation Between Change in Central Subfield Thickness and Change in Visual Acuity in Eyes with Neovascular Age-Related Macular Degeneration: Post hoc Analysis of VIEW 1 and VIEW 2**
Onnisa Nanegrungsunk, MD

**Predictors of Chronic Pain Following Plaque Brachytherapy**
Anthony Daniels, MD, MSc

**Efficacy of STEP (Satellite Clinic Treat and Extend Protocol) Strategy for Neovascular Age-Related Macular Degeneration**
Nicole Scripsema, MD

**Impact of Intravitreal Anti-VEGF Injections on Development and Progression of Glaucomaticous Disease in Patients with Exudative Age-Related Macular Degeneration**
Saumya Shah, MD

**Impact of Changes in Optical Coherence Tomography Metrics on Refractive Error in Patients with Neovascular Age-Related Macular Degeneration in the Comparison of Age-Related Macular Degeneration Treatments Trials (CATT)**
Matthew Starr, MD

**Macular Atrophy Incidence and Progression in 5-Year Treatment of Neovascular Age-Related Macular Degeneration**
Youning Zhang, MD

**Proof of Concept Validation of an Artificial Intelligence Model to Conduct Automated Segmentation of Swept-Source Optical Coherence Tomography Images for Macular Hole Volume**
Austin Pereira, MD

**Deep Learning for Automatic Segmentation of Autofluorescence Lesions in Stargardt Disease**
Peter Zhao, MD

**Investigation of the Role of TUBGCP4 and TUBGCP6 in the Development of the Retinal Vasculature**
Lesley Everett, MD, PhD

**Subretinal Versus Intravitreal Administration of Human CD34+ Bone Marrow-Derived Stem Cells in a Rat Model of Inherited Retinal Degeneration**
Susanna Park, MD

**Best Vitelliform Macular Dystrophy (BVMD) is a Phenocopy of North Carolina Macular Dystrophy (NCMD/MCDR1)**
Kent Small, MD
**OTHER**

**POSTER #T39**  Trends in Intravitreal Injection Administration Among Retina Specialists and Non-retina Ophthalmologists in the U.S. In Medicare Beneficiaries  
**Aditya Uppuluri**

**FRIDAY, OCTOBER 1, 2021 — 1:17 – 2:02 PM**

**AGE-RELATED MACULAR DEGENERATION**

**POSTER #F1**  The Common Antidiabetic Drug Metformin Reduces Odds of Developing Age-Related Macular Degeneration  
**Ramya Singireddy, MD**

**IMAGING**

**POSTER #F2**  Volumetric Characterization of Deep Vascular Plexus Connectivity Using High Resolution OCT and Confocal Microscopy  
**Diogo Cabral, MD**

**POSTER #F3**  Analysis of Sex-Specific Changes in Choroidal Vasculature Among Patients with Schizophrenia and Bipolar Disorder  
**Itika Garg, MD**

**POSTER #F4**  OCT Biomarkers in Neuronal Cereoid Lipofuscinosis Type 2  
**Brandon Lujan, MD**

**POSTER #F5**  Outcomes of Epiretinal Membrane Surgery in Eyes with Concurrent Glaucoma: Clinical Significance of Micocystoid Macular Changes on OCT  
**Travis Peck, MD**

**POSTER #F6**  Insights into Human Macular Ultrastructure by 3D Connectomics Relevant for OCT Signal Sources and Pathophysiology  
**Andreas Pollreisz, MD**

**POSTER #F7**  Three-Dimensional Quantification of Intraretinal Cystoid Spaces Associated with Full Thickness Macular Hole  
**Kotaro Tsuboi, MD**

**POSTER #F8**  Application of a Digital Green Filter for Improved Visualization of Retinal Breaks on Ultra-Widefield Fundus Imaging  
**Karen Wai, MD**

**INFLAMMATION**

**POSTER #F9**  Acute Retinal Necrosis: Clinical Characteristics, Viral Etiology, and Risk Factors Associated with Retinal Detachment  
**James Bavinger, BA**

**POSTER #F10**  Acute Retinal Necrosis: Difference in Outcome by Viral Type and Options for Antiviral Therapy  
**Benjamin Botsford, MD**

**POSTER #F11**  Clinical Outcomes for Intravenous Immunoglobulin Treatment in Autoimmune Retinopathy with Comparison to Natural History Controls  
**Jacob Cox, MD**
**Poster Sessions**

**POSTER #F12** Real World Outcomes of the 0.18 mg Fluocinolone Insert in the Treatment of Uveitis with Cystoid Macular Edema  
Jordan Deaner, MD

**POSTER #F13** Visual Function and Anatomic Outcomes Stratified by Baseline Visual Acuity in Patients Undergoing Suprachoroidal Injections for Macular Edema Associated with Noninfectious Uveitis  
Christopher Henry, MD

**POSTER #F14** Acute-Onset Postoperative Endophthalmitis After Cataract Surgery Performed by Resident and Attending Physicians at a University Teaching Hospital (2015-2020)  
Anne Kunkler, MD

**POSTER #F15** CALM: Real-World Registry Studying the Fluocinolone Acetonide Intravitreal Implant 0.18 mg in Noninfectious Uveitis  
Annal Meleth, MD, MS

**POSTER #F16** Risk of Systemic Medical Comorbidities in the Development of Injection Associated Endophthalmitis  
Kenneth Price, MD

**POSTER #F17** Use of Adjunctive Steroids with Anti-VEGF Agents in Treatment of Choroidal Neovascular Membrane Associated with Ocular Histoplasmosis  
Gautam Vangipuram

**OTHER**

**POSTER #F18** Racial Disparities in Enrollment and Participation in Diabetic Macular Edema Clinical Trials in the United States  
Theodore Bowe, MD

**POSTER #F19** High-Fat Diet Alters the Retinal Transcriptome in the Absence of Gut Microbiota  
David Dao, MD

**POSTER #F20** Acronym App for Ophthalmic Professionals: OE Acronyms  
Yale Fisher, MD

**SURGERY**

**POSTER #F21** Clinical Characteristics and Management Outcomes of Rhegmatogenous Retinal Detachments from Retinal Dialysis  
Raziyeh Mahmoudzadeh, MD

**OTHER**

**POSTER #F22** Impact of COVID-19 on Intravitreal Injection Clinic Decision Making During and After Lockdown  
Terry Hsieh, MD, PhD

**POSTER #F23** Trends in Resident Vitreoretinal Surgical Numbers: Effect of Region, Program Size, and Vitreoretinal Fellowship and Veterans Affairs Affiliation  
Grant Justin, MD

**POSTER #F24** Barriers to Follow-up Retinal Care During the COVID-19 Pandemic: A Survey Study  
Michael Klufas, MD

**POSTER #F25** Dopaminergic Prodrug Safety for Prevention of Pathologic Myopia  
Cassie Ludwig, MD, MS
**POSTER #F26** Five-Year Assessment of Clinical Trial Registration Patterns in the Ophthalmologic Literature  
*Murtaza Mandviwala, MD*

**POSTER #F27** Impact of Shelter-in-Place on Common Ophthalmic Procedures Volumes During the Early Phase of the COVID-19 Pandemic: A U.S. Claims-Based Analysis  
*Ravi Parikh, MD, MPH*

**POSTER #F28** Ocular Penetration of Dopaminergic Prodrugs for the Management of Myopia  
*Stephen Smith, MD*

**OTHER MACULAR DISEASE**

**POSTER #F29** Characterization of Choroidal Thickness in Acquired Macular and Peripheral Retinoschisis Using Spectral Domain Optical Coherence Tomography  
*Rohan Jalalizadeh, MD*

**POSTER #F30** Topical dexamethasone (DEX) as an Adjuvant to Mineralocorticoid Receptor Antagonists (MRA) for the Treatment of Recalcitrant Central Serous Chorioretinopathy (CSC)  
*Albert Li, MD*

**PEDIATRICS**

**POSTER #F31** Variability in Plus Disease Diagnosis Using Single and Serial Retinal Images  
*Emily Cole, MD, MPH*

**RETINAL VASCULAR DISEASE**

**POSTER #F32** Impact of COVID-19 Quarantine Mandates on Patients Requiring Intravitreal Injections for Vision Threatening Retinal Diseases  
*Jonathan Alhalel*

**POSTER #F33** Retinal Vessel Density and the Need for Ongoing Treatment in Retinal Vein Occlusion: A Swept-Source Optical Coherence Tomography Angiography Study  
*Shubhendu Mishra, MS*

**POSTER #F34** Feasibility of Therapeutic Ultrasound Application in Topical Scleral Delivery of Avastin  
*Fadi Nasrallah, MD*

**AGE-RELATED MACULAR DEGENERATION**

**POSTER #F35** Novel Age-Related Macular Degeneration Remote Monitoring Device and Clinical Validation  
*Yannis Paulus, MD*

**TUMORS**

**POSTER #F36** Description and Characteristics of Ocular Tumor Lysis Syndrome  
*Talisa De Carlo, MD*

**POSTER #F37** Regression of Large Retinal Astrocytic Hamartoma in Response to Oral mTOR Inhibitors  
*Frances Wu, MD*