Meeting At A Glance
July 20 — 25

American Society of Retina Specialists
36th Annual Meeting
Vancouver, BC, Canada
**EVENT LOCATIONS**

**Instructional Courses**

- **Friday, July 20**
  - Rooms 109-110 Level 1
  - 118-120 Level 1
  - 212-214 Level 2

- **Sunday, July 22**
  - Rooms 109-110 Level 1
  - 118-120 Level 1
  - West Ballroom AB Level 1

- **Monday, July 23**:
  - Rooms 109-110 Level 1
  - 118-120 Level 1
  - West Ballroom AB Level 1

**Welcome Reception**
- Friday, July 20, 7 PM
- Vancouver Aquarium

**Women in Retina (WinR) Lunch**
- Saturday, July 21, 11:55 AM – 1:10 PM
- Room 211 Level 2

**Retina Case Conference**
- Saturday, July 21, 3:05-5:35 PM
- West Ballroom AB Level 1

**Fellows-in-Training (FIT) Section Reception**
- Saturday, July 21, 5:45-7:15 PM
- Room 201 Level 2

**Early Career Section (ECS) Lunch**
- Sunday, July 22, 12:25-1:40 PM
- Room 211 Level 2

**Early Career Section (ECS) Member and Mentoring Reception**
- Sunday, July 22, 6:15-7:15 PM
- Ocean Foyer Level 1

**International Members and Delegates Breakfast**
- Monday, July 23, 7:00-8:00 AM
- Rooms 116-117 Level 1

**Fellowship Directors’ Section Lunch**
- Monday, July 23, 12:00-1:15 PM
- Room 116-117 Level 1

**Women in Retina (WinR) Case Conference**
- Monday, July 23, 5:15-7:15 PM
- Room 211 Level 2

**Gala in the Wild**
- Tuesday, July 24, 7:00 PM
- Grouse Mountain

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**ONGOING FRIDAY, JULY 20 – WEDNESDAY, JULY 25**

**Speaker-Ready Room**
- West Room 101-102 Level 1

**Continental Breakfasts & Breaks**
- West Exhibition Hall B Exhibition Level

**General Sessions**
- West Ballroom AB Level 1

**Lunches**
- West Exhibition Hall B Exhibition Level

**Posters**
- West Ballroom CD Level 1

**PAT Survey Posters**
- West Ballroom CD Level 1

**Exhibits**
- West Exhibition Hall B Exhibition Level

**On Demand Kiosks**
- West Ballroom AB Foyer Level 1
  - (papers, courses, and cases)

**3D Videos**
- West Exhibition Hall B Exhibition Level

**Film Festival**
- West Exhibition Hall B Lobby Exhibition Level

**Wellness Center**
- West Exhibition Hall B Exhibition Level
FRIDAY, JULY 20

1:00-5:15 PM  Instructional Courses

1:00-2:15 PM  Challenge the Masters, Calvin Mein, MD
   Rooms 109-110
   Faculty: Virgilio Morales-Canton, MD; Hugo Quiroz-Mercado, MD; Paul Tornambe, MD

1:00-2:15 PM  Online and Social Media Content for Continuing Education and Marketing for the Retina Specialist, Jayanth Sridhar, MD
   Rooms 212-214
   Faculty: Sunir Garg, MD; Rahul Khurana, MD; Ajay Kuriyan, MD, MS; Charles Wykoff, MD, PhD

1:00-2:15 PM  Uveitis for the Retina Specialist: What Do I Do Now?, Sumit Sharma, MD
   Rooms 118-120
   Faculty: Thomas Albini, MD; Dilraj Grewal, MD; Glenn Jaffe, MD; Ashleigh Levison, MD; Sunil Srivastava, MD; Eduardo Uchiyama, MD

2:30-3:45 PM  Techniques and Tips for Vitrectomy for Complications of Proliferative Diabetic Retinopathy Surgeries (PDR), Dharmesh Kar, MD, FVRS and Petros Carvounis, MD, FRCS
   Faculty: Alay Banker, MD; Andrew Barkmeier, MD; Jorge Fortun, MD; Nora Khatib, MD; Aniruddha Mahindrakar, MS; Annal Meleth, MD; S. Natarajan, MD

2:30-3:45 PM  Cell Therapies for Vitreoretinal Diseases: Distinguishing Legitimate Research From Unproven “Cell Therapy” Clinics, Ajay Kuriyan, MD
   Rooms 212-214
   Faculty: Thomas Albini, MD; Elliott Sohn, MD

2:30-3:45 PM  Introduction to Imaging With OCT Angiography and En Face Imaging, Caroline Baumal, MD; Mark Nelson, MD; Nadia Waheed, MD, MPH; Andre Witkin, MD
   Rooms 109-110

4:00-5:15 PM  Pediatric Vitreoretinal Surgical Techniques: An Interactive Video Panel, Lejla Vajzovic, MD
   Rooms 118-120
   Faculty: Caroline Baumal, MD; Audina Berrocal, MD; Philip Ferrone, MD; Mary Elizabeth Hartnett, MD; Cynthia Ann Toth, MD; Michael Trese, MD; Yoshihiro Yonekawa, MD

4:00-5:15 PM  Code Red in VR surgery, Aniruddha Maiti, MBBS, DO, DNB, FRVS, FICO
   Faculty: Nishkhant Borse, MS, FMRF; Carl Claes; Arnab Das, MD; Pravin Dugel, MD; Subhendu Kumar Boral, MBBS, MD(AIIMS), DNB(OPHTHALMOLOGY); Aditya Kelkar, MS, DNB, FRCS; Manish Nagpal, MD, FRCS (UK)

4:00-5:15 PM  Controversies in Vitreoretinal Diseases Management, Malhar Soni, MD, MS, DNB, FRCS
   Rooms 212-214
   Faculty: Robert Avery, MD; Maria Berrocal, MD; Abdhish Bhavsar, MD; Ehab El-Rayes, MD, PhD; Kazuaki Kadonosono, MD; Jerzy Nawrocki, MD, PhD; John Pollack, MD

7:00 PM  Welcome Reception, Vancouver Aquarium Lobby
7:30-8:30 AM  Continental Breakfast

8:00-8:15 AM  Opening Comments, Timothy G. Murray, MD, MBA

8:15-10:15 AM  AMD Neovascular Symposium
Moderators: David Brown, MD and David Williams, MD, MBA

8:15 AM  Predictive Analysis of the 12-Week Dosing Status at Week 48 for Patients Receiving Brolucizumab in the HAWK and HARRIER Studies, David Brown, MD

8:23 AM  A Comparison of the Anatomical Efficacy of Brolucizumab Versus Aflibercept in nAMD Patients: Matched 16-Week Results From the HAWK and HARRIER Studies, Pravin Dugel, MD

8:31 AM  Phase 3 Randomized, Double-Masked Studies of Brolucizumab Versus Aflibercept in nAMD: Expanded Primary and Secondary Outcomes From HAWK/ HARRIER, Arshad Khanani, MD

8:39 AM  Discussion

8:46 AM  Canadian Treat-and-Extend Analysis Trial With Ranibizumab in Patients With Neovascular AMD: CANTREAT Study 1-Year Results, Peter Kertes, MD, FRCS(C)

8:54 AM  Outcomes of Antivascular Endothelial Growth Factor (VEGF) Therapy for Neovascular Age-Related Macular Degeneration in Routine Clinical Practice, Andrew Moshfeghi, MD, MBA

8:59 AM  Percentage of Patients Maintained on Quarterly Anti-VEGF Dosing for the Treatment of Neovascular Age-Related Macular Degeneration Across Key Clinical Trials, David Eichenbaum, MD

9:04 AM  A Real-World Analysis in 49,485 Eyes of Visual Acuity Outcomes and Anti-VEGF Therapy Intensity in Neovascular AMD Patients, David Williams, MD, MBA

9:09 AM  Discussion

9:16 AM  CFH and ARMS2 Genetic Risk Determines Progression to Neovascular Age-Related Macular Degeneration After Antioxidant and Zinc Supplementation, Demetrios Vavvas, MD, PhD

9:21 AM  Do Anti-VEGF Injections Affect the Development of Neovascular AMD in Fellow Eyes? A Meta-analysis of Clinical Trials, Robert Avery, MD

9:26 AM  The Cilioretinal Artery is Protective Against Choroidal Neovascularization in Age-Related Macular Degeneration, Glenn Yiu, MD, PhD

9:31 AM  Comparing Outcomes of Standard and Reduced-Fluence Photodynamic Therapy in the Treatment of Polypoidal Choroidal Vasculopathy, Colin Tan, MBBS, MMed (Ophth), FRCSEd (Ophth)

9:39 AM  Discussion

9:46 AM  OCT Angiography (OCTA) Monitors the Influence of Different VEGF-I Drugs on a Specific CNVM, Paul Tornambe, MD

9:51 AM  Inflammation After Aflibercept Injection in Association With a Specific Brand of Syringe That Releases Silicone Oil Droplets: A Case-Control Study, Gustavo Melo, MD, PhD
9:59 AM  Prophylactic Ranibizumab for Exudative AMD in Vulnerable Eyes With Nonexudative AMD Trial (PREVENT): A Prospective Controlled Clinical Trial, Maziar Lalezary, MD

10:04 AM  Endophthalmitis Rates After Bilateral Same Day Intravitreal Anti-VEGF Injections, Durga Borkar, MD

10:09 AM  Discussion

10:15-10:55 AM  Break

10:55-11:15 AM  AMD Non-neeovascular Symposium
   Moderators: Neil Bressler, MD and Karl Csaky, MD, PhD
   10:55 AM  Learnings From the Lampalizumab Chroma and Spectri Phase 3 Trials: Effect of Baseline Characteristics on Geographic Atrophy Progression, Carl Regillo, MD, FACS
   11:03 AM  Common Age-Related Macular Degeneration Genetic Risk Variants and Geographic Atrophy Lesion Growth in the Chroma and Spectri Phase 3 Lampalizumab Trials, Karl Csaky, MD, PhD
   11:11 AM  Discussion
   11:16 AM  APL-2, a Complement C3 Inhibitor, Slows the Growth of Geographic Atrophy Secondary to AMD: 18-Month Results of a Phase 2 Trial (FILLY), Nathan Steinle, MD
   11:24 AM  Subretinal Implantation of a Bioengineered Embryonic Stem Cell-Derived Retinal Pigment Epithelium Monolayer in Dry Age-Related Macular Degeneration, Amir Kashani, MD PhD
   11:32 AM  Discussion
   11:37 AM  Direct-to-Consumer Marketing by U.S. “Cell Therapy” Clinics for Retinal Conditions, Ajay Kuriyan, MD, MS
   11:42 AM  Progression of Visual Function Endpoints in Early and Intermediate Age-Related Macular Degeneration, Eleonora Lad, MD, PhD
   11:50 AM  Discussion

11:55 AM-1:10 PM  General Lunch & Women in Retina (WinR) Section Lunch

1:10-2:25 PM  Macular Holes Symposium
   Moderators: David Boyer, MD and Calvin Mein, MD
   1:10 PM  Multilayered Inverse Internal Limiting Membrane Peeling – Is ILM the Culprit or Savior in the Treatment of Large Macular Holes and Macular Hole R.D.?, Srinivas Joshi, MD
   1:18 PM  Structural Outcomes of Autologous Neurosensory Retinal Flap for Large and Refractory Macular Holes: International Collaborative Study Group, Dilraj Grewal, MD
   1:23 PM  Functional Outcome of Autologous Neurosensory Retinal Flap for Large and Refractory Macular Holes: Multicenter International Collaborative Study Group, Kazuaki Kadonosono, MD
   1:28 PM  Comparative Study of Inverted ILM Flap and PRP as an Adjunct in Large Macular Holes, Naresh Kannan, MS, FNB, MBA
   1:36 PM  Discussion
   1:42 PM  Surgical Repair of Chronic Macular Holes: Functional and Anatomic Outcomes Using No Facedown Positioning, Raymond Iezzi, MD, MS
1:47 PM  Radial Retinal Incisions for the Treatment of Persistent Macula Holes, Christian Pruente, MD
1:52 PM  Retinal Function Assessment by Microperimetry-3 After Internal Limiting Membrane Peeling in Macular Hole Patients, Wu Liu, MD
1:57 PM  Discussion
2:02 PM  Effect of Baseline Ocular Characteristics on Vitreomacular Adhesion/Vitreomacular Traction Resolution With Ocriplasmin: ORBIT Study Subanalysis, David Boyer, MD
2:07 PM  Visual Outcomes of Primary Versus Secondary Epiretinal Membrane Following Vitrectomy and Cataract Surgery, Mohamed Soliman, MD, MSc
2:15 PM  Treatment of Focal Vitreomacular Traction With Pneumatic Vitreolysis, an Emerging Surgical Technique, Calvin Mein, MD
2:20 PM  Discussion

2:25-3:05 PM  Break

3:05-4:30 PM  Medical Case Conference
Moderators: Sophie Bakri, MD and Judy Kim, MD
Presenters:
  J. Fernando Arevalo, MD, FACS
  Sophie Bakri, MD
  Andrew Barkmeier, MD
  Paul Bernstein, MD, PhD
  Bartlett Hayes, MD
  Rehan Hussain, MD
  Srinivas Joshi, MD
  Jaclyn Kovach, MD
  Ashleigh Levison, MD
  Tara McCannel, MD, PhD
  Quan Nguyen, MD, MSc
  Omar Punjabi, MD
  Sumit Sharma, MD
  Lejla Vajzovic, MD
  Jiong Yan, MD
  Glenn Yiu, MD, PhD
  Yoshihiro Yonekawa, MD

4:35-5:35 PM  Surgical Case Conference
Moderators: Carl Awh, MD and Carl Regillo, MD, FACS
Presenters:
  Mohamed AlBahiti, MBBS, FRCSC
  Mohsin Ali, MD
  Nishikant Borse, MS, FMRF
  Jonathan Chang, MD
  Albert Li, MD
  Zofia Michalewska, MD, PhD
  Manish Nagpal, MD, FRCS (UK)
  Berna Ozkan, MD
  Uriel Rubin, MD
  Jayanth Sridhar, MD
  Victor Villegas, MD
  Christina Weng, MD, MBA

5:45-7:15 PM  Fellows-in-Training (FIT) Section Reception
SUNDAY, JULY 22

7:30-8:30 AM  Continental Breakfast

8:00-9:00 AM  Ocular Oncology Symposium
Moderators: Zelia Correa, MD, PhD and Tara McCannel, MD, PhD

8:00 AM  Uveal Melanoma Fine Needle Aspiration Biopsy (FNAB) for Molecular Genomic Classification: Evaluation of Transscleral Versus Transvitreal Biopsy, Timothy Murray, MD, MBA

8:08 AM  Long-term Outcomes of 27-Gauge Vitrectomy-Assisted Biopsy for Molecular Prognostication in Very Small Uveal Melanoma, Tara McCannel, MD, PhD

8:16 AM  Comparative Survival of Patients With Posterior Uveal Melanoma Presenting Class 1A Versus Class 1B Gene Expression Profile, Zelia Correa, MD, PhD

8:24 AM  6-Month Results of a Phase 1b-2 Prospective Multicenter Clinical Trial of a Novel Targeted Therapy (AU-011) for the Treatment of Choroidal Melanoma, Amy Scheffler, MD

8:32 AM  Discussion

8:39 AM  Ranibizumab for Radiation Retinopathy (RRR) A Prospective, Multicenter Trial of Monthly Versus PRN Dosing for Radiation Retinopathy-Related Macular Edema, Rajiv Anand, MD, FRCS

8:44 AM  Optical Coherence Tomography Angiographic (OCTA) Changes in Retinal Vasculature After Episcleral Plaque Brachytherapy (EPB) for Choroidal Melanoma, Brian Toy, MD

8:49 AM  3D Dosimetry Simulation for Plaque Selection in Uveal Melanoma: Comparison of COMS Versus Eye Physics Plaques, Scott Walter, MD, MSc

8:54 AM  Discussion

9:00-10:15 AM  Awards Ceremony
Moderators: Mark Humayun, MD, PhD and Timothy Murray, MD, MBA

9:00 AM  Pyron Award Introduction, Timothy Murray, MD

9:05 AM  Pyron Award, “Treating AMD: Back to the Future”, Joan W. Miller, MD

9:25 AM  Discussion

9:30 AM  Founders Award Introduction, Mark Humayun, MD, PhD

9:35 AM  Founders Award, Playing Your Part in Drug Development, Wiley A. Chambers, MD

9:55 AM  Discussion

10:00 AM  Early Career Section (ECS), Crystal Apple Award Presentation, Audina M. Berrocal, MD

10:05 AM  ASRS Presidents’ Retina Young Investigators Award Introduction

10:07 AM  ASRS Presidents’ Retina Young Investigators Award, Advancing Insights Into Diabetic Eye Disease, Rishi P. Singh, MD
10:15-10:55 AM  Break

10:55 AM-12:25 PM Surgical Symposium

Moderators: Stanislao Rizzo, MD and Gaurav Shah, MD

10:55 AM Heads-Free!: 3D Head-Mounted Display System for Vitreoretinal Surgery, Murat Oncel, MD

11:00 AM Can We Enhance 3D Visualization With Optical Coherence Tomography to Improve a Surgeon’s Capabilities?, Cynthia Toth, MD

11:05 AM Scleral Transillumination With Digital Heads-up Display: A Novel Technique for Visualization During Vitrectomy Surgery, Bozho Todorich, MD, PhD

11:10 AM Intraoperative Use of Microscope-Integrated OCT for Subretinal Gene Therapy, Ninel Gregori, MD

11:15 AM Subretinal Transplantation of Biodegradable Photoreceptor Cell Delivery Scaffolds: Surgical Tools, Procedures and Outcomes, Elliott Sohn, MD

11:20 AM Discussion

11:29 AM Utility of Hypersonic Vitrector Settings During Vitreoretinal Surgery, Sunir Garg, MD


11:39 AM Single Intraoperative Subconjunctival Triamcinolone Acetonide Injection Versus 4-6-Week Topical Steroid Taper Following Vitreoretinal Surgery, Elizabeth Atchison, MD

11:44 AM A Novel Biocompatible Film to Promote Retinal Breaks Repair and Macular Hole Closure, Stanislao Rizzo, MD

11:49 AM Discussion

11:56 AM Argus II Retinal Prosthesis Complication Profile Pre- and Post-FDA Approval, Aleksandra Rachitskaya, MD

12:01 PM Comparison of Visual and Anatomic Results After Combined Boston Keratoprosthesis, Vitrectomy and Glaucoma Surgery (as Needed) to Keratoprosthesis Alone, Jennifer Lim, MD

12:06 PM Vitreous Biomarkers for Alzheimer’s Disease in Patients Undergoing Vitrectomy and Cognitive Function Assessment, Manju Subramanian, MD

12:11 PM Orbital Emphysema as a Complication of Vitrectomy: Report of 12 Consecutive Cases, Virgilio Morales-Canton, MD

12:16 PM Discussion

12:25-1:40 PM General Lunch & Early Career Section (ECS) Lunch

1:40-2:25 PM Surgical Expert Panel

Moderators: Philip Ferrone, MD and Jonathan Prenner, MD

1:40 PM No Glue Sutureless Scleral Fixation of IOL: A New, Simple, Reproducible Technique, Subhendu Boral, MBBS, MD(AIIMS), DNB(OPHTHALMOLOGY)

1:43 PM Modified Flanged Scleral-Fixation for Intraocular Lens Insertion, Richard Johnston, MD
1:46 PM Outcomes of Scleral Tunnel Fixation Techniques, Gareth Lema, MD, PhD
1:49 PM Comparison of 2 Modified Sutureless Techniques of Scleral Fixation of Intraocular Lens, Aditya Kelkar, MS, DNB, FRCS
1:52 PM Long-term Outcome of Pars Plana Vitrectomy and Sutured Scleral-Fixed Posterior Chamber Intraocular Lens Implantation or Repositioning, Gregg Kokame, MD, MMM
1:55 PM Safety and Efficacy of Retropupillary Iris Claw Intraocular Lens Implant in Aphakia With Inadequate Capsular Support, Aniruddha Maiti, MBBS, DO, DNB, FRVS, FICO
1:58 PM 1-Year Outcomes of a Surgical Technique for Sutureless Intrascleral Fixation of a 3-Piece Intraocular Lens Using a 30-Gauge Needle, Jonathan Prenner, MD
2:01 PM 27-Gauge Sutureless Intrascleral Fixation of Intraocular Lenses with Haptic Flanging: Clinical Outcomes and a Disinsertion Force Study, Maxwell Stem, MD
2:06 PM Discussion

2:25-2:50 PM Instrumentation Symposium
Moderators: Carl Awh, MD and Raymond Iezzi, MD
2:25 PM Initial Experience With a Novel Hypersonic Vitrectomy Device for Vitreoretinal Surgery, Kevin Blinder, MD
2:33 PM Clinical Feasibility of Ultra-rapid, Non-pharmacologic Anesthesia for Intravitreal Injection in Patients Receiving Anti-VEGF Treatment, Cagri Besirli, MD, PhD
2:38 PM Evolving Trends in Practice Patterns of North American Vitreoretinal Surgery Fellows From 2010-2016, Robert Gizicki, MD, FRCSC, DABO
2:43 PM Discussion

2:50-3:30 PM Break

3:30-4:45 PM Instructional Courses
3:30-4:45 PM Rooms 109-110 The Winning Pitch Challenge: The Retina Version of “Shark Tank”...Without the Bite (no CME)
Moderators: John Pollack, MD and David Williams, MD, MBA
Judges: Matthew Chapin; Paul Hallen; William Link, PhD; and Angela Macfarlane
3:30-4:45 PM Rooms 118-120 Retinal Gene Therapy: Clinical Trial Updates and Surgical Considerations, Christine Kay, MD
Faculty: Benjamin Bakall, MD, PhD; Ninel Gregori, MD; Elliott Sohn, MD; Kimberly Stepien, MD; Karmen Trzupek, MS
3:30-4:45 PM West Ballroom AB Clinical Trials “Unplugged”: Real, Practical Questions and Answers, Pravin Dugel, MD and Geoffrey Emerson, MD, PhD
Faculty: Sophie Bakri, MD; Jeffrey Heier, MD; J. Michael Jumper, MD; Arshad Khanani, MD; Yasha Modi, MD; Jonathan Prenner, MD; Nadia Waheed, MD, MPH; Christina Weng, MD, MBA; Charles Wykoff, MD, PhD; Yoshihiro Yonekawa, MD

5:00-6:00 PM Scientific Poster Q&A and Reception

6:15-7:15 PM Early Career Section (ECS) Member and Mentoring Reception
MONDAY, JULY 23

7:00-8:00 AM: International Members and Delegates Breakfast

7:30-8:30 AM: Continental Breakfast

8:00-9:10 AM: Imaging, Digital, Angiography Symposium
Moderators: Manish Nagpal, MD, FRCS (UK) and John Pollack, MD

8:00 AM: Clinical and OCT Findings in Chronic Solar Retinopathy, Shaileen Parikh, MS, DO, FMRF

8:05 AM: Misdiagnosis and Mistreatment of Optic Disc Pit Maculopathy – SD-OCT Features for Accurate Diagnosis: Multicenter International Study, Matias Iglicki, MD

8:10 AM: Correlation of Active and Healing Features of Serpiginous-like Choroiditis (SC) on Optical Coherence Tomography Angiography (OCTA) With Indocyanine Green Angiography (ICGA), Manish Nagpal, MD, FRCS (UK)

8:18 AM: Short-term Oral Mifepristone for the Treatment of Central Serous Retinopathy (STOMP-CSC): A Placebo-Controlled Clinical Trial, Roger Goldberg, MD, MBA

8:23 AM: Discussion

8:27 AM: Nonexudative Choroidal Neovascularization Identified by Optical Coherence Tomographic Angiography Is a Precursor to Exudation, David Huang, MD, PhD

8:35 AM: The Use of Swept Source Optical Coherence Tomography Angiography (SS-OCTA) in Patients With Uveitis and Retinal Vasculitis, Sumit Sharma, MD

8:43 AM: Acute Macular and Peripapillary Angiographic Changes With Intravitreal Injections, Alexander Barash, MD

8:51 AM: Discussion

8:55 AM: Correlation of Peripheral Nonperfusion on Ultra-widefield Fluorescein Angiography with Macular Flow Loss on OCT Angiography in Sickle Cell Retinopathy, Adrienne Scott, MD

9:00 AM: Ultra-widefield OCTA for Evaluation of Vascular Perfusion, Kasra Rezaei, MD

9:05 AM: Discussion

9:10-9:40 AM: “Complications” or Are They?: Why We Can NEVER Get Enough Rest
Moderator: Jeffrey Heier, MD
Panelists: Peter Kaiser, MD, Geoffrey Emerson, MD, PhD; J. Michael Jumper, MD; Ehab El Rayes, MD, PhD

9:10 AM: Assessing the Level of Evidence for Commercially Available Cell Therapy Treatments for Retinal Diseases at U.S. Cell Therapy Clinics, Daniel Simhaee, MD

9:13 AM: Nd: YAG Capsulotomy is Associated With Sustained IOP Elevation in Patients Treated With Anti-VEGF Injections, Assaf Dotan, MD

9:16 AM: Complications Following Laser Vitreolysis for Symptomatic Floaters, Paul Hahn, MD, PhD

9:19 AM: Aflibercept-Related Sterile Intraocular Inflammation, Philip J. Ferrone, MD

9:22 AM: Discussion

9:40-10:20 AM: Break
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<th>Time</th>
<th>Session</th>
<th>Details</th>
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<tbody>
<tr>
<td>10:20-10:42 AM</td>
<td>Retinal Vascular Disease Symposium</td>
<td>Moderators: Alay Banker, MD and Linda Lam, MD, MBA</td>
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<td>10:20 AM</td>
<td>Association of Disorganization of Retinal Inner Layers With Clinical Outcomes and Fluorescein Angiographic Features in Central Retinal Vein Occlusion, Akshay Thomas, MD, MS</td>
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<tr>
<td>10:25 AM</td>
<td>Disorganization of Retinal Inner Layers Predicts Visual Acuity Response to Anti-VEGF Therapy for Macular Edema Secondary to Retinal Vein Occlusion, Amy Babiuch, MD</td>
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<td>10:30 AM</td>
<td>Peripheral Findings in Macular Telangiectasis Type 2, Stavros Moysidis, MD</td>
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<td>10:35 AM</td>
<td>Discussion</td>
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<td>10:42 AM</td>
<td>Comparison of Visual Outcome in Neovascular Glaucoma to Anterior Segment Neovascularization Without Glaucoma, Hossein Ameri, MD, PhD, FRCSI, MRCophth</td>
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<td>10:50 AM</td>
<td>New Biosimilar Bevacizumab and Ranibizumab for Retinal Diseases, Alay Banker, MD</td>
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<td>10:58 AM</td>
<td>Discussion</td>
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<td>11:05 AM-12:00 PM</td>
<td>All That’s Worth KNOWING: How to Assess the VALUE of a Retinal Specialist With and Without “Big Data”</td>
<td>Moderator: Timothy Murray, MD, MBA; Panelist: John Pollack, MD</td>
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<td>11:05 AM</td>
<td>EHR Errors in Documenting and Billing Procedures, Leonard H. Ginsburg, MD</td>
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<td>11:08 AM</td>
<td>Relativity, Time, and the Devaluation of Retinal Procedures During the Past Decade, John T. Thompson, MD</td>
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<td>11:11 AM</td>
<td>Return to the Operating Room After Vitrectomy for Vitreous Opacities: IRIS Registry Analysis, D. Wilkin Parke, MD</td>
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<td>11:14 AM</td>
<td>Discussion</td>
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<td>12:00-1:15 PM</td>
<td>General Lunch &amp; Fellowship Directors’ Section Lunch</td>
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<td>1:15-1:35 PM</td>
<td>Business Meeting—ASRS Members Only</td>
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<td>1:35-1:40 PM</td>
<td>PAT Survey, Paul Hahn, MD, PhD</td>
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<td>1:40-1:45 PM</td>
<td>Global Trends, Rishi Singh, MD</td>
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<td>1:45-3:00 PM</td>
<td>Instructional Courses</td>
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<td>1:45-3:00 PM</td>
<td>RETINAWS: When the Going Gets Tough, the Tough Get Going-Challenging Cases in Vitreoretinal Surgery, Kourous Rezaei, MD</td>
<td>Faculty: J. Fernando Arevalo, MD, FACS; Ehab El-Rayes, MD, PhD; Geoffrey Emerson, MD, PhD; Jose Garcia Arumi, MD, PhD; Stratos Gotzaridis, MBB, MD; Timothy Murray, MD, MBA; Manish Nagpal, MD, FRCS (UK); Kirk Packo, MD, FACS; Stanislaw Rizzo, MD; Homayoun Tabandeh, MD; Charles Wykoff, MD, PhD</td>
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<td>1:45-3:00 PM</td>
<td>Women in the Retina: How to Succeed in Different Practice Environments, From Academia to Private Practice, Audina Berrocal, MD</td>
<td>Faculty: Kristen Hartley, MD; Geeta Lalwani, MD; Lisa Olmos de Koo, MD, MBA; Aleksandra Rachitskaya, MD; Krista Rosenberg, MD; Stephanie Vanderveldt, MD; Christina Weng, MD, MBA</td>
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<td>1:45-3:00 PM</td>
<td>Visualization in Vitreoretinal Surgery: Optimization, Technology, and Pearls, Andrew Barkmeier, MD and Alan Franklin, MD, PhD</td>
<td>Rooms 109-110</td>
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<td>3:00-3:45 PM</td>
<td>Break</td>
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<td>3:45-5:00 PM</td>
<td>Instructional Courses</td>
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<tr>
<td>3:45-5:00 PM</td>
<td>Vitreoretinal Surgery Rounds: The ARC Experience, Jeremy Wolfe, MD, MS</td>
<td>Rooms 118-120</td>
</tr>
<tr>
<td>3:45-5:00 PM</td>
<td>Vitreoretinal Surgical Techniques: (How Do I Do It?) 3D Video Panel, Ehab El-Rayes, MD, PhD</td>
<td>Rooms 109-110</td>
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<td>3:45-5:00 PM</td>
<td>Vitreoretinal Surgical Rounds: the Duke Approach, Dilraj Grewal, MD</td>
<td>West Ballroom AB</td>
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<tr>
<td>5:15-7:15 PM</td>
<td>WinR Case Conference</td>
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**Tuesday, July 24**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30-8:30 AM</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00-9:40 AM</td>
<td>Diabetic Retinopathy 1 Symposium</td>
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<td></td>
<td>Moderators: Nancy Holekamp, MD and Peter Kaiser, MD</td>
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<tr>
<td>8:00 AM</td>
<td>Treat-and-Extend Versus Bimonthly Dosing With Aflibercept for the Treatment of Diabetic Macular Edema, 1-Year Outcomes (EVADE Study), Dilsher Dhoot, MD</td>
</tr>
<tr>
<td>8:08 AM</td>
<td>2-Year Outcomes From Randomized Trials of Anti-VEGF Treatments for Diabetic Retinopathy (DR) and Diabetic Macular Edema (DME), Geeta Lalwani, MD</td>
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<tr>
<td>8:16 AM</td>
<td>Effect of Adding Dexamethasone to Continued Ranibizumab Treatment in Patients With Persistent Diabetic Macular Edema, Raj Maturi, MD</td>
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<tr>
<td>8:24 AM</td>
<td>Prospective Evaluation of Pain and Inflammation Following Injection of Aflibercept or Ranibizumab in Patients With Diabetic Macular Edema: SOLAR Study, Nikolas London, MD</td>
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<tr>
<td>8:29 AM</td>
<td>Discussion</td>
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<tr>
<td>8:36 AM</td>
<td>Randomized, Prospective, Double-Masked, Controlled Phase 2b Trial to Evaluate the Safety and Efficacy of ALG-1001 (Luminate®) in Diabetic Macular Edema, Peter Kaiser, MD</td>
</tr>
<tr>
<td>8:44 AM</td>
<td>Combination Therapy With Intravitreal Nesvacumab+Aflibercept in Diabetic Macular Edema: The Phase 2 RUBY Trial, Jeffrey Heier, MD</td>
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<tr>
<td>8:52 AM</td>
<td>Anti-VEGF/Anti-Angiopoietin-2 Bispecific Antibody RG7716 in Diabetic Macular Edema: 36-Week Results from the Phase 2 BOULEVARD Clinical Trial, Rishi Singh, MD</td>
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<tr>
<td>9:00 AM</td>
<td>Discussion</td>
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<tr>
<td>9:06 AM</td>
<td>Reduction in the Frequency of Diabetic Macular Edema (DME) Therapies Post-0.2 µg/Day Fluocinolone Acetonide (FAc) Implant Treatment Results, Sam Mansour, MD, MSc,FACS, FRCS(C)</td>
</tr>
<tr>
<td>9:14 AM</td>
<td>Advanced Image Analysis and Machine-Learning Assessment of the Impact of Aflibercept on Anatomic Feature and Flow Dynamics in the PERMEATE Study, Justis Ehlers, MD</td>
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<tr>
<td>9:19 AM</td>
<td>A Model to Predict the 3-Year Risk of Needing Treatment for Diabetic Macular Edema, Bobeck Modjtahedi, MD</td>
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<tr>
<td>9:24 AM</td>
<td>Outcomes of Intravitreal Antivascular Endothelial Growth Factor (VEGF) Therapy for Diabetic Macular Edema in Routine Clinical Practice, John Pitcher, MD</td>
</tr>
<tr>
<td>9:29 AM</td>
<td>2 Real-World Analyses of Treatment Burden Associated With Intravitreal Injections for DME Prior to 0.2 µg/Day Fluocinolone Acetonide (FAc), Nancy Holekamp, MD</td>
</tr>
<tr>
<td>9:34 AM</td>
<td>Discussion</td>
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<tr>
<td>9:40-10:20 AM</td>
<td>Break</td>
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10:20 AM-12:00 PM Diabetic Retinopathy 2 Symposium

Moderator: Susan Bressler, MD and Charles Wykoff, MD, PhD

10:20 AM Panretinal Photocoagulation Versus Ranibizumab for Proliferative Diabetic Retinopathy: Should Baseline Characteristics Affect Choice of Treatment?, Susan Bressler, MD

10:28 AM Analysis of Vitreous Biomarkers Associated With Diabetic Macular Edema in the Setting of Proliferative Diabetic Retinopathy- A Multicohort Study, Kameran Lashkari, MD

10:33 AM To Treat or Not to Treat: Are We Sacrificing Treatment Outcomes by Allowing Diabetic Retinopathy (DR) to Enter the Proliferative Stage?, Michael Elman, MD

10:38 AM Earliest Diabetic Retinopathy Detection Using Optical Coherence Tomography Angiography (OCTA) Perfused Capillary Density, Richard Rosen, MD, DSc(Hon)

10:43 AM Intravitreal Aflibercept for Moderately Severe to Severe Nonproliferative Diabetic Retinopathy (NPDR): the Phase 3 PANORAMA Study, Charles Wykoff, MD, PhD

10:51 AM Randomized Trial of Panretinal Photocoagulation Versus Ranibizumab for Proliferative Diabetic Retinopathy: 5-Year Outcomes, Jeffrey Gross, MD

10:56 AM Discussion

11:07 AM Applying the DRCR.net Anti-VEGF Treatment Algorithm for Proliferative Diabetic Retinopathy: Neovascular Outcomes Over 2 Years, Christina Flaxel, MD

11:15 AM Outcomes in Proliferative Diabetic Retinopathy Patients Lost to Follow-up After Panretinal Photocoagulation Versus Antivascular Endothelial Growth Factor, Daniel Su, MD

11:23 AM Quantitative Ultra-widefield Angiography: Correlation of Microaneurysm Burden With Anatomic and Angiographic Features in Diabetic Retinopathy, Joseph Boss, MD

11:28 AM Discussion

11:34 AM Effect on Treatment Burden Post- Versus Pre-Iluvien Based on Prior DME Treatments, Caesar Luo, MD

11:39 AM Best Corrected Visual Acuity (BCVA) and Central Macular Thickness (MAT) Outcomes After Fluocinolone Acetonide Intravitreal Implant Injection, Dana Deupree, MD

11:44 AM Preoperative Intravitreal Bevacizumab for TRD Secondary to PDR: A Prospective Randomized Clinical Trial of the PACORES Group, J, Fernando Arevalo, MD, FACS

11:49 AM Does the Presence of Diabetic Retinopathy Influence the Visual Outcome After Cataract Surgery?, Ahmed Sallam, MD, PhD, FRCOphth

11:54 AM Discussion

12:00-1:15 PM Lunch
1:15-1:45 PM  Diabetic Retinopathy 3 Symposium  
Moderators: Michael Singer, MD and Christina Weng, MD, MBA 

1:15 PM  
The Translation of CST to Visual Function: Persistent DME and QOL Measures With FAc Implants in the FAME Study, Michael Singer, MD 

1:20 PM  
Correlation Between Changes in Segments of Topographic Map of Multifocal ERG and OCT Map Segments and Visual Acuity in Diabetic Macular Edema, Mohammad Riazi, MD 

1:25 PM  
Discussion 

1:30 PM  
Patient-Centric Assessment of the Quality of Care Delivered in a Diabetic Retinopathy Teleretinal Screening Program, Christina Weng, MD, MBA 

1:35 PM  
Determining Epidemiological Factors for Improved Telemedicine Screening Efficacy for Diabetic Retinopathy, Ankoor Shah, MD 

1:40 PM  
Discussion 

1:45-3:05 PM  Pediatric Retina, ROP Symposium  
Moderators: Audina Berrocal, MD and Linda Cernichiaro Espinosa, MD 

1:45 PM  
Parameters Affecting Postoperative Success of Surgery for Stage 4a/4b ROP, Sengul Ozdek, MD 

1:53 PM  
ROP Screening With Ultra-widefield Imaging, Guillermo Salcedo-Villanueva, MD 

2:01 PM  
Evaluation of an Automated Severity Score in Retinopathy of Prematurity, J. Peter Campbell, MD, MPH 

2:06 PM  
Discussion 

2:14 PM  
Fluorescein Angiography Findings Post-intravitreal Bevacizumab for ROP: Can It Predict the Late-Onset Risk of Recurrence?, Swati Agarwal-Sinha, MD 

2:22 PM  
Optical Coherence Tomography Angiography in Pediatric Patients, Lejla Vajzovic, MD 

2:27 PM  
High Magnification Photography and Fluorescein Angiography in Infants With Congenital Zika Syndrome, Camila Ventura, MD, PhD 

2:32 PM  

2:37 PM  
Surgical Indications, Outcomes, and Complications of Pediatric Endoscopic Vitrectomy in 285 Consecutive Cases, Aaron Nagiel, MD, PhD 

2:45 PM  
Retinoschisis in Coats’ Disease: Clinical Picture, Therapeutic Considerations, Management Outcomes and Histopathological Correlation, Audina Berrocal, MD 

2:53 PM  
Discussion 

3:05 PM  
Break
3:50-4:20 PM  Hereditary Retinal Disease & Genetics Symposium
Moderators: Julia Haller, MD and Baruch Kuppermann, MD, PhD

3:50 PM  Safety and Activity of a Single, Intravitreal Injection of Human Retinal Progenitor Cells for Treatment of Retinitis Pigmentosa (RP), Baruch Kuppermann, MD, PhD

3:58 PM  Year 1 Time to Mobility Test Completion in a Voretigene Neparvovec-rzyl Trial in Subjects With RPE65 Mutation-Associated Inherited Retinal Disease, Julia Haller, MD

4:03 PM  3-Year Update for the Phase 3 Voretigene Neparvovec-rzyl Study in Biallelic RPE65 Mutation-Associated Inherited Retinal Disease, Stephen Russell, MD

4:11 PM  Discussion

4:20-5:00 PM  The ETHICS of Retina: Also Known as DARN I Cannot Believe My Colleague Did (Said) THAT
Moderator: Tarek Hassan, MD
Panelists: Dean Elliott, MD; Jonathan Prenner, MD

5:00-5:15 PM  Film Festival Awards
Brett Foxman, MD and Timothy Murray, MD, MBA

7:00 PM  Gala in the Wild, Grouse Mountain
WEDNESDAY, JULY 25

7:30-8:30 AM  Continental Breakfast

8:00-8:50 AM  Retinal Detachment Symposium
Moderators: Prithvi Mruthyunjaya, MD, MHS and Edwin Ryan, MD, MSc

8:00 AM  Vision-Related Functioning in Patients Undergoing Pneumatic Retinopexy Versus Vitrectomy for Primary Retinal Detachment: Subanalysis of the PIVOT Trial, Carolina Francisconi, MD

8:05 AM  How Scleral Buckling Alters Vitreous Fluidics: Computer Modeling, Tommaso Rossi, MD, MSc, EBOD

8:10 AM  Efficacy of Preoperative Intravitreal Injection of Gas as an Adjunct to Pars Plana Vitrectomy for Rhegmatogenous Retinal Detachment Repair, Rachel Trussart, MD

8:15 AM  Discussion

8:20 AM  Outcomes of Repair of Moderately Complex Phakic Rhegmatogenous Retinal Detachment (RRD): The PRO Study (Primary Retinal Detachment Outcomes), Edwin Ryan, MD

8:25 AM  Differences in Metamorphopsia and OCT Changes After Retinal Detachment Repair: RCT Comparing Pneumatic Retinopexy to Vitrectomy at 1 Year (PIVOT Trial), Rajeev Muni, MD, MSC, FRCS(C)

8:30 AM  Discussion

8:35 AM  Endoscopy-Assisted Vitrectomy in Complex Rhegmatogenous Retinal Detachment: Is It an Advantage?, Flavio Rezende, MD, PhD

8:40 AM  Structural Outcomes and Imaging Observations Following Scleral Window to Treat Exudative Detachment in Uveal Effusion Syndrome, Prithvi Mruthyunjaya, MD, MHS

8:45 AM  Discussion

8:50-9:45 AM  Inflammatory & Infectious Disease Symposium
Moderators: Glenn Jaffe, MD and Quan Nguyen, MD, MSc

8:50 AM  Confirmatory 1-Year Study Results of an Injectable Fluocinolone Acetonide Intravitreal Insert to Treat Noninfectious Posterior Segment Uveitis, Glenn Jaffe, MD

8:58 AM  Controlling Uveitic Recurrences: Results From a Phase 3 Study of 0.18 mg Fluocinolone Acetonide Insert (FAi) in Noninfectious Posterior Uveitis, Quan Nguyen, MD, MSc

9:06 AM  Injectable Fluocinolone Acetonide Intravitreal Insert Reduces the Need for Adjunctive Treatment in Noninfectious Posterior Segment Uveitis, Sunil Srivastava, MD

9:11 AM  Discussion


9:20 AM  Endophthalmitis After Intravitreal Injection of Vascular Endothelial Growth Factor (VEGF) Inhibitors: Management and Visual Outcomes, Kunyong Xu, MD, MHSc
9:25 AM  Endophthalmitis Rates of Prefilled Ranibizumab Syringes Compared to Conventional Ranibizumab Vials: An International Multicenter Study, Yoshihiro Yonekawa, MD

9:30 AM  Long-term Anti-VEGF Treatment Following Vitrectomy for Endophthalmitis in Patients With Neovascular AMD, Zofia Michalewska, MD, PhD

9:35 AM  Clinical Course and Outcomes at 3 Years After Severe Fungal Endophthalmitis in 14 Eyes Following Contaminated Bevacizumab Intravitreal Injection, Mallika Goyal, MD

9:40 AM  Discussion

9:45-10:00 AM  Break

10:00-10:30 AM  My Practice Is Worth WHAT?: Equity Acquisition in the Retina World

Moderator: Robert Avery, MD
Panelists: Carl Baker, MD; Michael Jacobson, MD; Reginald Sanders, MD

Why the Retina Business Model Is Changing Right in Front of You, and Are You Ready?, Michael Jacobson, MD

10:30-11:00 AM  Late Breaking Abstracts

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