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Dear Fellows and Guest Faculty,

On behalf of the entire Duke Eye Center Retina Faculty, I am pleased to welcome you to the 21st Duke Advanced Surgery Course at the Durham Convention Center.

The Duke AVS Course occurs biennially and was initiated about 42 years ago by the late Robert Machemer, MD when he came to Duke as Chairman of Ophthalmology. We are continuing the tradition of innovation and education and are excited to host world-renowned speakers at this meeting. This year, we have about 100 fellow participants and an exceptional group of faculty. The course provides a unique blend of lectures, interactive panels and hands-on experience.

We are excited that you could join us and we hope that you will find this educational experience worthwhile.

Sincerely,

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Duke fAVS and AVS Course Director
and the Duke Eye Center Retina Faculty
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8:00 AM-5:30 PM
Registration

7:00 AM-5:30 PM
Exhibits

7:00-7:45 AM
Breakfast

7:45-8:00 AM
Welcome Remarks
Lejla Vajzovic, MD

8:00-9:32 AM
SESSION 1:
Gene Therapy, Stem Cells, Retinal Prosthesis and Cavitary Optic Disc Maculopathy

Chairs: Sophie J. Bakri, MD and Lejla Vajzovic, MD

8:00
Retinal Degenerations: Update on Clinical Trials
Alessandro Iannaccone, MD, MS, FARVO

8:07
Surgical Considerations in Gene Therapy
Janet L. Davis, MD

8:14
Subretinal Cellular Delivery: Microscope Integrated OCT Approach
Lejla Vajzovic, MD

8:21
Instrumentation for Subretinal Surgery: Gene and Stem Cell Treatments
Elliott H. Sohn, MD

8:28
Imaging and Treatment Options for Optic Pit Maculopathy
Barbara Parolini, MD

8:35
Management of Optic Pits
Rishi P. Singh, MD

8:42
Discussion
Janet L. Davis, MD; Alessandro Iannaccone, MD, MS, FARVO; Barbara Parolini, MD; Rishi P. Singh, MD; Elliott H. Sohn, MD; Lejla Vajzovic, MD

9:02 AM-9:32 PM
Panel: Gene Therapy
Moderator: Cynthia A. Toth, MD
Panelists: Janet L. Davis, MD; Alessandro Iannaccone, MD, MS, FARVO; Rishi P. Singh, MD; Elliott H. Sohn, MD; Lejla Vajzovic, MD

9:32-10:00 AM
Break

10:00 AM-12:15 PM
SESSION 2:
Retinal Detachment Repair and Trauma

Chairs: Glenn J. Jaffe, MD and Andrew A. Moshfeghi MD, MBA

10:00
Retinal Detachment Repair in Young Adults
Harry W. Flynn, Jr., MD

10:06
A Non-Hysterical Look at the Scleral Buckle Versus Vitrectomy Controversy for Primary RD
Donald J. D’Amico, MD
10:12
The Minimalist View of Vitrectomy for RD
Demetrios G. Vavvas, MD, PhD

10:18
Discussion
Donald J. D’Amico, MD; Harry W. Flynn, Jr., MD; Demetrios G. Vavvas, MD, PhD

10:33
There’s More to Retinal History than Meets the Books
Kirk H. Packo, MD

10:43
Rhegmatogenous Retinal Detachment – Treatment Options and Outcomes
Edmund Y.M. Wong, MMed, FRCS

10:49
Tips and Tricks and Use of Adjuncts in Surgery for Proliferative Vitreoretinopathy
Sophie J. Bakri, MD

10:45
Discussion
Sophie J. Bakri, MD; Kirk H. Packo, MD; Edmund Y.M. Wong, MMed, FRCS

11:05
There’s More to Playing Sports When It Meets the Eye
Kirk H. Packo MD

11:15
Management of Intraocular Foreign Bodies
Glenn J. Jaffe, MD

11:21
Discussion
Glenn J. Jaffe, MD and Kirk H. Packo MD

11:42 AM-12:15 PM
Panel:
Repair of Retinal Detachment: A Global Perspective
Moderator: Glenn J. Jaffe, MD
Panelists: Xi Chen, MD, PhD; Donald J. D’Amico, MD; Janet L. Davis, MD; Kazuaki Kadonosono, MD, PhD; Barbara Parolini, MD; Ramin Tadayoni, MD, PhD; Cynthia A. Toth, MD; Edmund Y.M. Wong, MMed, FRCS

12:15-1:30 PM
Lunch with Industry Presentations
(A non-CME event)

12:30-12:54 PM
Alcon Laboratories, Inc.
Dutch Ophthalmic USA
Allergan, Inc.
Bausch + Lomb
Clearside Biomedical
Heidelberg Engineering
Mallinckrodt Pharmaceuticals
MedOne Surgical, Inc.
Notal Vision

1:30-3:30 PM
SESSION 3: Macular Holes Unplugged
Chairs: Andrew A. Moshfeghi, MD, MBA and Elliott H. Sohn, MD

1:30
Spectrum of Myopic Macular Schisis and Current Management Options
Edmund Y.M. Wong, MMed, FRCS
1:37
New Staging of Myopic Tractive Tional Maculopathy and Guidelines for Treatment
Barbara Parolini, MD

1:44
Myopic Foveoschisis: Who and When to Operate?
Ramin Tadayoni, MD, PhD

1:51
There’s More to Dying the Retina That Colors the Eye
Kirk H. Packo, MD

1:58
Discussion
Kirk H. Packo, MD; Barbara Parolini, MD; Ramin Tadayoni, MD, PhD; Edmund Y.M. Wong MMed, FRCS

2:18
Macular Holes Surgery: How the Surgery Works and Implications for Surgical Strategy
Ramin Tadayoni, MD, PhD

2:25
Surgical Results of Buckle Versus Combined Buckle Vitrectomy for Myopic Tractive Tional Maculopathy
Barbara Parolini, MD

2:32
Flaps for Full Thickness Macular Hole: New Treatment Option with New Complications
Barbara Parolini, MD

2:39
Autologous Retinal Transplant for Primary Large Macular Holes
Kazuaki Kadonosono, MD, PhD

2:46
Discussion
Kazuaki Kadonosono, MD, PhD; Barbara Parolini, MD; Ramin Tadayoni, MD, PhD

3:00-3:30 PM
Panel: Macular Surgery
Moderator: Sophie J. Bakri, MD
Panelists: Harry W. Flynn, Jr., MD; Dilraj S. Grewal, MD; Kazuaki Kadonosono, MD, PhD; Kirk H. Packo, MD; Barbara Parolini, MD; Ramin Tadayoni, MD, PhD

3:30-4:00 PM
Break

4:00-5:25 PM
SESSION 4: ERM and Lamellar Macular Holes

4:00
There’s More to Epiretinal Membranes Than Meets the Eye
Kirk H. Packo, MD

4:07
Lamellar Macular Holes: Double or Single Flap to Avoid the Opening and Improve the Function
Barbara Parolini, MD

4:14
Surgical Decision Making in Patients With Epiretinal Membranes
Andrew A. Moshfeghi, MD, MBA

4:21
Cystoid Macular Edema Following Vitrectomy for Epiretinal Membrane
Kazuaki Kadonosono, MD, PhD
4:28
Discussion
Kazuaki Kadonosono, MD, PhD; Andrew A. Moshfeghi, MD, MBA; Kirk H. Packo, MD; Barbara Parolini, MD

4:48
The Case for the ILM that Never Harmed You
Demetrios G. Vavvas, MD, PhD

4:55
Lamellar Macular Holes and Differential Diagnosis: New Classification, Indications and Surgery
Ramin Tadayoni, MD, PhD

5:02
Quantitative Assessment of Metamorphopsia in Patients Considering Surgery for Macular Disorders
Andrew A. Moshfeghi, MD, MBA

5:09
Discussion
Andrew A. Moshfeghi, MD, MBA; Ramin Tadayoni, MD, PhD; Demetrios G. Vavvas, MD, PhD

5:25
Wrap Up
Lejla Vajzovic, MD

5:30
Adjourn

6:45
Meet in Marriott Lobby to walk to Angus Barn Bay 7

7:00-10:00 PM
Dinner at Angus Barn Bay 7
8:24 Discussion
Rishi P. Singh, MD; Elliott H. Sohn, MD; Demetrios G. Vavvas, MD, PhD; Edmund Y.M. Wong, MMed, FRCS

8:40 Surgery for DME: Failure is the Only Option
Donald J. D’Amico, MD

8:46 Update on Diabetic Retinopathy: Should We Intervene Earlier?
Sophie J. Bakri, MD

8:52 Results of Cannulation for Eyes with Retinal Artery Occlusion
Kazuaki Kadonosono, MD, PhD

8:58 CRAO and Vitreoretinal Surgery
Harry W. Flynn, Jr., MD

9:04 Discussion
Sophie J. Bakri, MD; Donald J. D’Amico, MD; Harry W. Flynn, Jr., MD; Kazuaki Kadonosono, MD, PhD

9:25-10:00 AM Panel: Diabetic Surgery
Moderator: Andrew A. Moshfeghi, MD, MBA
Panelists: Sophie J. Bakri, MD; Donald J. D’Amico, MD; Janet L. Davis, MD; Glenn J. Jaffe, MD; Kazuaki Kadonosono, MD, PhD; Kirk H. Packo, MD; Elliott H. Sohn, MD; Demetrios G. Vavvas, MD, PhD; Edmund Y.M. Wong, MMed, FRCS

10:00-10:30 AM Break

10:30-11:40 AM Session 6: Technology: Old and New
Chairs: Glenn J. Jaffe MD and Ramin Tadayoni, MD, PhD

10:30 The Changing Role of Relaxing Retinotomy in Complex RD Repair
Donald J. D’Amico, MD

10:36 Visualization of Vitreous Base
Elliott H. Sohn, MD

10:42 Combined Phacovitrectomy: Tips and Tricks
Edmund Y.M. Wong, MMed, FRCS

10:48 Discussion
Donald J. D’Amico, MD; Elliott H. Sohn, MD; Edmund Y.M. Wong, MMed, FRCS

11:00 How to Approach Vitreoretinal Surgery in an Eye with a Keratoprosthesis
Donald J. D’Amico, MD

11:06 Intraoperative OCT: European Experience
Ramin Tadayoni, MD, PhD

11:12 Intraoperative OCT: The Real World and the Future
Cynthia A. Toth, MD
Deep Learning Applied to Visualization of Internal Limiting Membranes
Kazuaki Kadonosono, MD, PhD

Discussion
Donald J. D’Amico, MD; Kazuaki Kadonosono, MD, PhD; Ramin Tadayoni, MD, PhD; Cynthia A. Toth, MD

Lunch with Industry Presentations
(A non-CME event)

12:00-12:26 PM
Santen, Inc.
Genentech, Inc.
Retina Today
Novartis
OCULUS Surgical, Inc.
RXQ Compounding, LLC
Second Sight Medical Products
Topcon Medical Systems
ZEISS

SESSION 7:
Tumors, Uveitis, and Endophthalmitis
Chairs: Harry W. Flynn, Jr., MD and Miguel A. Materin, MD

Intraocular Drug Delivery: What is New in 2019
Glenn J. Jaffe, MD

SESSION 8:
Lensectomy and IOL Gymnastics
Chairs: Sharon J. Fekrat, MD, FACS and Rishi P. Singh, MD

Small Gauge to Large Gauge Lensectomies
Demetrios G. Vavvas, MD, PhD
Management of Posteriorly Dislocated Lenses
Edmund Y.M. Wong, MMed, FRCS

The Forward Thinking of Anterior Lenses
Demetrios G. Vavvas, MD, PhD

Secondary IOL Placement
Rishi P. Singh, MD

Discussion
Rishi P. Singh, MD; Demetrios G. Vavvas, MD, PhD; Edmund Y.M. Wong, MMed, FRCS

Multimodal Imaging in Pediatric VR Surgery
Cynthia A. Toth, MD

Gene Therapy Techniques for Injection
Elliott H. Sohn, MD

Advances in Pediatric Retinal Imaging
Xi Chen, MD, PhD

Discussion
Xi Chen, MD, PhD; Elliott H. Sohn, MD; Cynthia A. Toth, MD

North Carolina Retina Club Potpourri Panel
Moderator: Omar S. Punjabi, MD and Rajiv E. Shah, MD
Panelists: Sophie J. Bakri, MD; Donald J. D’Amico, MD; Janet L. Davis, MD; Harry W. Flynn, Jr., MD; Kauaki Kadonosono, MD, PhD; Andrew A. Moshfeghi, MD, MBA; Kirk H. Packo, MD; Rishi P. Singh, MD; Elliott H. Sohn, MD; Ramin Tadayoni, MD, PhD; Demetrios G. Vavvas, MD, PhD; Edmund Y.M. Wong, MMed, FRCS

There’s More to 3D Surgical Viewing Than Meets the Eye(s)
Kirk H. Packo, MD

Management of Digital Images During Heads-Up Vitrectomy
Kauaki Kadonosono, MD, PhD
4:52
3D Surgery: Tips for Enhancing Your Experience
Rishi P. Singh, MD

4:58
Intraoperative OCT and 3D Surgery
Lejla Vajzovic, MD

5:04
Discussion
Kazuaki Kadonosono, MD, PhD;
Kirk H. Packo, MD; Rishi P. Singh, MD;
Lejla Vajzovic, MD

5:20
Wrap Up
Lejla Vajzovic, MD

5:25
Adjourn

6:15
Meet in Marriott Lobby to Walk to Tobacco Road Sports Café

6:30-10:00 PM
Closing Dinner at Tobacco Road Sports Café
EDUCATIONAL GRANTS
This course is supported by educational grants from:

Alcon Laboratories, Inc.
Regeneron Pharmaceuticals, Inc.

EXHIBITORS
Duke Eye Center gratefully acknowledges the following companies for their generous support:

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