



**Connecticut Society of Eye Physicians
NY State Ophthalmological Society
Virtual Scientific CME Regional Meeting
January 13 & 15, 2022**

- World Class Faculty
- Dynamic & Relevant Lecture Topics
- Innovation
- Artificial Intelligence



EDWARD LIM, MD
MODERATOR

Over 500 Ophthalmologists attending

Program Agenda & Evaluation



VINCENT DELUISE, MD
MODERATOR



Register Today

THURSDAY, JANUARY 13, 2022

VIRTUAL SESSION SCHEDULE

5:25 pm Vincent deLuise, MD, Moderator



5:30 pm With an Artistic Vision: Creativity and Visual Loss – Vincent P. deLuise, MD

Objectives: 1. To better understand how visual loss affects artistic creativity 2. To better understand the artistic genius of several great artists in the western Canon, how they dealt with their loss of vision, and how it affected their paintings.



6:00 pm Covid Vaccination, Treatment, Prevention of Transmission in the Office Setting

– Richard Martinello, MD & Mark Russi, MD

Objectives: 1. To review current treatments and preventions for Covid-19 2. To review vaccination requirement policies for employees and describe prevention methods of Transmission in the Office.



6:30 pm State of the Art Ocular Surface Disease Management to Enhance Surgical Outcomes – John D. Sheppard, MD

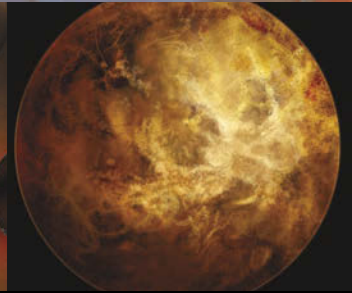
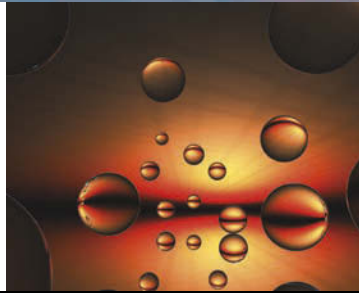
Objectives: 1. Familiarize surgeons with multi-factorial drivers of ocular surface disease 2. Describe diagnostics utilized in the characterization of ocular surface conditions. 3. Analyze peer review publications confirming the efficacy of ocular surface treatment regimes

EXHIBIT HALL WILL BE OPEN UNTIL 10 PM



7:00 pm David Parke, Sr. Lecture Five Compelling Lessons Learned from the Greatest Team of Cataract Surgeons – David F. Chang, MD

Objectives: 1. To understand the rationale and evidence for intraocular antibiotic prophylaxis. 2. To understand alternatives to phaco for advanced, mature cataracts. 3. To understand how OR waste can be reduced.



7:45 pm Molecular Diagnostics for Infectious Eye Diseases: New Techniques and New Insights – Russell Van Gelder, MD, PhD

Objectives: 1. Understand the conceptual basis of molecular diagnostics of infectious eye disease 2. Understand indications for molecular diagnostics in ophthalmology 3. Understand limitations of these techniques in practice.



8:15 pm What I have Learned in 45 years of Studying Intermittent Exotropia – Burton J. Kushner, MD

Objectives: 1. After this presentation you will understand the new classification system for intermittent exotropia and accompanying treatment recommendations. 2. After this presentation you will know how to diagnose and treat the uncommon patient with a true high AC/A ratio intermittent exotropia and how to distinguish it from the more common pseudo-high AC/A.

8:45 pm Adjournment of CME Programs and Door Prizes

The Connecticut Society of Eye Physicians designates this educational activity Thursday, January 13, 2022 for a maximum of 2.5 AMA PRA Category I Credit(s)[™].

Physicians should only claim credit commensurate with the extent of their participation in the activity.

The Connecticut Society of Eye Physicians is accredited by the Connecticut State Medical Society to sponsor continuing medical education for physicians.

Mission Statement

The Connecticut Society of Eye Physicians (CSEP) is committed to advancing the highest standards of eye care, and to improving and protecting the eye health and vision of our communities, through its continuing education programs. The semi-annual scientific education programs of CSEP are designed for ophthalmologists and their staff to learn about recent advances in the diagnosis and management of eye diseases and conditions, through symposia, scientific papers, posters and videos. CSEP programs are designed to meet the educational needs of its members and the objectives set forth by the CSEP Education Committee. The target audience of CSEP includes ophthalmologists, ophthalmic technicians, practice managers, and physicians-in-training. CSEP activities range from didactic lectures to participatory activities, which are approved for CME credit when appropriate. CSEP recommends that its target audience will incorporate the best practices presented into their daily practice. Specific competency, performance, and patient outcome goals from the program will be proposed by the presenters and evaluated by the participants.

Vincent deLuise MD, CSEP Education Committee Co-Chair
Reviewed February 11, 2021



REGENERON

Sponsored Speaker Bios

Dr. Bauma is available for consultation in all areas of medical and surgical retinal diseases. Her surgical interests include the management of complicated retinal detachment, proliferative vitreoretinopathy, diabetic retinopathy, retinopathy of prematurity, and ocular trauma.

She has a special interest in macular degeneration, diabetes, uveitis, ocular manifestations of systemic disorders, ocular imaging, retinovascular diseases, and pediatric retinal disorders. She is an investigator in several multi-center studies evaluating new therapies for macular degeneration and edema.

Lecture Thursday 1-13-22 at 9:15 pm



Alcon A Novartis Division

Bennett Walton, MD, MBA attended Vanderbilt University as an Honors Scholar and graduated summa cum laude and Phi Beta Kappa. Dr. Walton received a Master of Business Administration from Rice University and a Doctor At Rice, he received distinction as a Jones Scholar, the highest academic award given from the business school. He completed an internship at Houston Methodist Hospital and residency at the Cullen Eye Institute at Baylor College of Medicine. During his years at the Cullen Eye Institute, Dr. Walton received Everett L. Goar Research Awards in back-to-back years for his work in leveraging telemedicine to improve ophthalmic care delivery. Following residency, he completed an additional fellowship in cornea, refractive and anterior segment surgery.

Dr. Walton sits on the Editorial Advisory Boards for the publications *Cataract & Refractive Surgery Today* & *Millennial Eye*.

Lecture Saturday 1-15-22 at 2:30 pm

7:30 am Breakfast in Exhibit Hall

8:25 pm Introductions and Welcome - Ed Lim, MD



8:30 am Visual Axis Centration of Capsulotomy and IOL Using Automated Capsulotomy Devices – Richard Packard, MD DO FRCS FRCOphth FEBOS-CR

Objectives: 1. To demonstrate the importance of achieving accuracy of positioning of the capsulotomy and IOL in cataract and RLE surgery.



9:00 am Cataract Surgery in the Setting of Ocular Inflammation – Guillermo Amescua, MD

Objectives: 1. To understand the importance of a careful and detailed pre operative evaluation and control of inflammation 2. To review different techniques to avoid intra operative complications 3. To establish a medical treatment plan for the post operative management of uveitic cataracts.

Stretch



9:45 am Pediatric Eye Injury in Sports & Recreation: Trends & Pandemic Effect – Jean E. Ramsey, MD, MPH

Objectives: 1. To demonstrate the varied clinical presentations of ocular trauma in children 2. To review trends in pediatric eye trauma, before and during COVID pandemic 3. To understand the importance of prevention strategies.





10:15 am Neuroprotection & Neuroenhancement for the Treatment of Retinal Diseases & The Role of Inflammation in DME & Impact on Clinical Management– Baruch Kuppermann, MD Objectives: 1. Describe the underlying concepts of apoptosis, neuroprotection, and neuroenhancement 2. Present scientific background and clinical trial data on emerging new agents neuro-protective potential in retinal diseases 3. Discuss potential future uses of neuroprotection and neuroenhancement for retinal diseases 4. Describe the pathophysiology of diabetic macular edema and the role of inflammation 5. Present scientific rationale and clinical trial data for both anti-VEGF and steroid based therapeutic approaches 3. Discuss management of diabetic macular edema and review clinical decision making for switching between therapeutic classes



11:00 am IOL Calculations 2022: Progress & Limits – Douglas D. Koch MD Objectives: 1. Describe the variety of methods used to calculate IOL power 2. Discuss the sources of error and methods to minimize them 3. Describe new approaches such as postoperative modification of IOL power.



11:30 am What Went Wrong? – Warren Hill, MD Objectives: The attendee will develop an increased awareness of how a seemingly small lack of attention can lead to an unpleasant refractive outcomes following cataract surgery.



12:00 pm 1. 21st Century Threats to Glaucoma Care: Epidemics/Pandemics Objectives: 1. Learn about the impact of COVID-19 on glaucoma care 2. Strategies to tackle COVID-19 and any potential future epidemics obstacles to glaucoma care
2. Lifestyle Factors and Glaucoma 1. Learn about different lifestyle factors that may be associated with glaucoma 2. Strategies to manage different lifestyle choices in a way that may benefit an individual's health – Anne L. Coleman, MD, PhD



12:45 pm Advances in Corneal Transplantation Surgery and Fuchs Dystrophy – Natalie Afshari, MD Objectives: 1. To familiarize attendees with the recent advances in the field of corneal transplantation with a focus on endothelial keratoplasty (DSEK, DMEK) 2. To become more familiar with advances in the science behind Fuchs corneal dystrophy, corneal endothelium, and regeneration of cornea

1:15 pm Conclusion of the CME Program & Door Prizes

The Connecticut Society of Eye Physicians designates this educational activity Saturday, January 15, 2022 for a maximum of 5.25 AMA PRA Category I Credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity. The Connecticut Society of Eye Physicians is accredited by the Connecticut State Medical Society to sponsor continuing medical education for physicians.
For questions contact Debbie Osborn at: debbieosborn36@yahoo.com

**12:00 SPONSORED LUNCH - Patient Opportunities with Presbyopia - Mitigating IOLs's
– Bennett Walton, MD (in Vendor Hall)**



Speaker Bios

NATALIE AFSHARI, MD

Natalie Afshari is Stuart Brown MD Chair in Ophthalmology in Memory of Donald P. Shiley, Chief of Cornea and Refractive Surgery, Director of Education, and Professor of Ophthalmology at the Shiley Eye Institute, University of California San Diego. Prior to this, she was Professor of Ophthalmology and Director of Centers of Excellence at the Duke University Eye Center. She received her medical degree from Stanford University and her residency and fellowship training at Harvard University, Massachusetts Eye and Ear Infirmary.

Dr. Afshari is the recipient of the Senior Achievement Award and the Secretariat Award by the American Academy of Ophthalmology and has been named a Gold Fellow of the Association for Research in Vision and Ophthalmology. She has received the inaugural Top Ten Women in Medicine award by Triangle News, Women Who Mean Business award by San Diego Business Journal, and the Teacher of the Year award from the Duke University Eye Center. She has also been recognized in the Best Doctors in America in each listing for the past decade, and was named in the U.S. News & World Report's Top Doctors List.

Dr. Afshari is the co-editor of a new two-volume cornea book called "Principles and Practice of Cornea". She is also on the editorial board of American Journal of Ophthalmology, and Investigative Ophthalmology and Visual Science. She has previously served on the EyeNet editorial board, BCSC Cornea text book committee, and the American Academy of Ophthalmology council representing the American Society of Cataract and Refractive Surgery. She was co-chair of the cornea program committee for the Association for Research in Vision and Ophthalmology and co-director of Cornea Subspecialty Day for the American Academy of Ophthalmology. She is currently the chair of the American Society of Cataract and Refractive Surgery FDA Committee. Her NIH research grant is on the study of Fuchs dystrophy, and she investigates the intricacies of endothelial keratoplasty and regeneration of cornea.

GUILLERMO AMESCUA, MD

Dr. Amescua is an associate professor of clinical ophthalmology, cornea/ocular surface/uveitis service, at the Bascom Palmer Eye Institute (BPEI) of the University of Miami Miller School of Medicine, where he directs the ocular surface service and is medical co-director of the ocular biophysics laboratory at the McKnight Research Building of the Miller School of Medicine.

Dr. Amescua received his Doctor of Medicine degree from the I.A. Santos School of Medicine in Monterrey, Mexico, and completed his residency training in ophthalmology at the University of Pittsburgh. He performed a cornea/refractive surgery fellowship and a uveitis and ocular surface disease fellowship at BPEI.

An internationally recognized expert in limbal stem cell deficiency and in corneal and ocular surface infectious diseases, Dr. Amescua is president-elect of the Ocular Microbiology Interest Group (OMIG).

Dr. Amescua is a frequently invited speaker and visiting professor. He is a principal investigator for the national ZEDS trial (Zoster Eye Disease Study) and the UV light/riboflavin cross-linking trial of bacterial keratitis.

DAVID F. CHANG, MD

Dr. David F. Chang is a Summa Cum Laude graduate of Harvard College and Harvard Medical School. He completed his ophthalmology residency at the University of California, San Francisco where he is now a clinical professor. Having chaired the ASCRS Cataract Clinical Committee, Dr. Chang has been on the ASCRS Board and Executive Committee since 2009 and served as the 2012-2013 president. He is a past chair of the AAO Cataract Preferred Practice Pattern Panel and the AAO Annual Meeting Program Committee. In addition to the Lifetime AAO Achievement award, Dr. Chang is a 6-time AAO Secretariat Award recipient. He currently co-chairs the ASCRS Foundation and is the recipient of the 2019 AAO Humanitarian Service Award, and the 2020 Aravind Venkataswamy Award.

Dr. Chang has been honored by the following international societies: AAO (Kelman Lecture), ASCRS (Binkhorst Medal), ESCRS (Ridley Medal), Asia Pacific Association of Cataract & Refractive Surgery (Lim Medal), United Kingdom and Ireland Society of Cataract & Refractive Surgery (Rayner Medal), Canadian Society of Cataract and Refractive Surgery (Award of Excellence/Stein Lecture), All India Ophthalmology Society (President's Lecture), Indian Intraocular Implant & Refractive Society (Gold Medal), Italian Ophthalmological Society (Strampelli Medal), International Intraocular Implant Club (IIIC Medal), American-European Congress of Ophthalmic Surgery (Visionary Award), DOC-German Ophthalmic Surgeons (DOC Innovator Lecture), Chinese American Ophthalmological Society (Pioneer Award), International Society of Refractive Surgery (Presidential Award), Royal Australia and New Zealand College of Ophthalmologists (Gregg Medal), Asia-Pacific Academy of Ophthalmology (Jose Rizal International Medal), Middle East Africa Council of Ophthalmology (El-Maghraby International Award), and the International Council of Ophthalmology (T. Krwawicz Gold Medal). Including these, he has delivered more than 40 named lectures.

Dr. Chang previously served as chief medical editor of EyeWorld, and Cataract and Refractive Surgery Today. He was chief editor for Curbside Consultation in Cataract Surgery (Slack 2007), Mastering Refractive IOLs – the Art and Science (Slack 2008), Phaco Chop and Advanced Phaco Techniques (Slack 2004, 2012), and Advanced IOL Fixation Techniques (Slack 2019).

ANNE L. COLEMAN, MD, PhD

Dr. Coleman is currently the immediate past President of the American Academy of Ophthalmology. She has served as an at-large member for the Board of Trustees, Knowledge Base Development/Glaucoma Chair, Secretary of Quality of Care, and Pyott Glaucoma Center Co-Chair. She is currently the Academy H. Dunbar Hoskins, Jr., MD Center for Quality of Eye Care Director.

Dr. Coleman is the Fran and Ray Stark Foundation Professor of Ophthalmology in the David Geffen School of Medicine at UCLA as well as Professor of Epidemiology in the UCLA Jonathan Karin Fielding School of Public Health. She is Vice-Chair for Academic Affairs for the Department of Ophthalmology and Director of the Stein Eye Institute Center for Community Outreach and Policy, overseeing both the UCLA

Mobile Eye Clinic and the UCLA Center for Eye Epidemiology.

Dr. Coleman received her medical degree from the Medical College of Virginia, completed her residency training at the University of Illinois in Chicago and her fellowship training in glaucoma at the Wilmer Eye Institute, Johns Hopkins University, and received a PhD in Epidemiology from UCLA. Dr. Coleman's research is focused on the diagnosis, treatment, genetic-environment interactions, and societal impact of glaucoma, cataracts, and age-related macular degeneration, including the study of lifestyle limitations imposed on patients with these eye diseases. With contributions to numerous studies and peer-reviewed journal articles and other publications, Dr. Coleman continues to serve as an investigator for a number of ongoing studies and clinical trials. She is currently a member of the Scientific Advisory Panel for Research to Prevent Blindness and is previous Executive Editor of Glaucoma for the American Journal of Ophthalmology and currently is an Associate Editor.

Dr. Coleman has been actively involved in national outreach programs in ophthalmology. She was elected to the National Academy of Science, Engineering, and Medicine in 2016, was a member of the National Academy of Medicine (formerly Institute of Medicine) Committee on Public Health Approaches to Reduce Vision and Promote Eye Health, and Chair of the National Eye Institute National Eye Health Educational Program. She is former president of Women in Ophthalmology and of the Los Angeles Society of Ophthalmology. She is recipient of the Academy's Life Achievement Award and Secretariat Awards and gave the LXXII Edward Jackson Memorial Lecture at the annual Academy meeting in 2015. She was a member of the St. John of Jerusalem Eye Hospital Group Board of Trustees and the Helen Keller International Board of Trustees, and a former member of the U.S. Food and Drug Administration Ophthalmic Devices Panel. She is past Chair of the Council for the American Ophthalmological Society (AOS) and is currently the President of AOS

VINCENT deLUISE, MD

Vincent P. deLuise MD is an assistant clinical professor of ophthalmology at Yale University School of Medicine and a distinguished visiting scholar in medical humanities and bioethics at Stony Brook University Renaissance School of Medicine.

Dr. deLuise is a phi beta kappa graduate of Princeton University and Weill Cornell Medical College. He performed his ophthalmology residency at the Bascom Palmer Eye Institute of the University of Miami School of Medicine and fellowship training in corneal disease and surgery at the Proctor Foundation of the University of California, San Francisco School of Medicine.

Dr. deLuise is a diplomate of the American Board of Ophthalmology, a fellow of the American Academy of Ophthalmology, an honor award and senior achievement award recipient of the AAO, and a Fellow of the American College of Surgeons.

Dr. deLuise is on the editorial boards of the journals Cornea and Eye World. He has served on numerous committees of the AAO evaluating LASIK and PRK, and was a member of the AAO BCSC text book committee for Corneal and External Disease. He serves as a manuscript reviewer for Archives of Ophthalmology, American Journal of Ophthalmology, British Journal of Ophthalmology and Cornea. He has published thirty articles in the peer-reviewed ophthalmic literature and has edited a textbook on peripheral corneal diseases.

Dr. deLuise has maintained a lifelong passion for classical music and the fine arts. He co-founded, with Dr. Jonathan Lass of Case Western University, the noontime classical music concert at the annual meeting of the AAO, and organized the Connecticut Mozart Festival in the bicentenary year of the composer's death. He is on the Music and Medicine Initiative Advisory Board at Weill Cornell Medical College where he serves as program annotator for the MMI Orchestra.

WARREN HILL, MD

Warren Hill has been in private practice in Mesa, Arizona for 35 years. He is best known for his work helping physicians obtain the best possible accuracy for IOL power selection. His many web sites are some of the most popular IOL power calculation resources in ophthalmology, with a combined total of 1.4 million visits each year.

Dr. Hill has published extensively, is an Adjunct Professor of Ophthalmology at Case Western Reserve University. He has delivered 32 named lectureships and presented 880 clinical papers in 46 countries. He has performed live surgery at ophthalmology meetings in North America, South America and Europe and is a member of the International Intra-Ocular Implant Club limited to 250 master surgeons worldwide. In 2014 Dr. Hill gave the American Society of Cataract and Refractive Surgery Innovator's Lecture and in 2015 he gave the American Academy of Ophthalmology's Charles Kelman Lecture. In 2016 he received the Rayner Medal in Ophthalmology of the United Kingdom & Ireland Society of Cataract and Refractive Surgeons. In 2017 he received the Presidential Recognition Award of the International Society of Refractive Surgery.

Aside from the practice of ophthalmology, Dr. Hill's other passion is flying military airplanes in air shows as a member of a close formation demonstration team for which is licensed as a multi-engine commercial pilot.

DOUGLAS D. KOCH, MD

Douglas D. Koch, MD, was born and raised in Port Huron, Michigan. He graduated summa cum laude from Amherst College (PBK) and the Harvard Medical School (AOA). He completed residency training in ophthalmology at the Cullen Eye Institute, Baylor College of Medicine and fellowship training in refractive and cataract surgery at Moorfields Eye Hospital in the United Kingdom and in the U.S. under Drs. David McIntyre, James Rowsey, and Clifford Terry, after which he joined the department of ophthalmology at The Cullen Eye Institute, Baylor College of Medicine. In 1999, he received The Allen, Mosbacher, and Law Chair in Ophthalmology. Dr. Koch's clinical and research interests are in cataract and refractive surgery, including astigmatism, corneal topography, wavefront technology, surgical techniques and prevention of complications, intraocular lens calculations, and surgical instrument design. He has authored over 200 articles and book chapters on the topics of cataract and refractive surgery.

Dr. Koch has given over twenty named lectures, including the Kelman, Binkhorst, and Barraquer Lectures at the American Academy of Ophthalmology Annual Meeting; the Charles Kelman Innovators Lecture at the annual meeting of the American Society of Cataract and Refractive Surgeons; the Binkhorst Medal Lecture at the annual meeting of the European Society of Cataract and Refractive Surgeons; the Lans Lecture at the International Society of Refractive Surgery Annual Meeting, the Ronald G. Michels Memorial Lecture at Johns Hopkins University; the Jules Stein Lecture at UCLA; the Arthur Lim Lecture at the Asia-Pacific Society of Cataract and Refractive Surgery; and the First Gold Medal Lecture at the Australian Society of Cataract and Refractive Surgery in Queensland, Australia, and the Leslie Dana Gold Medal from the St. Louis Society for the Blind and Visually Impaired. Dr. Koch has served as associate editor and co-chief editor of the Journal of Cataract and Refractive Surgery. He is the past President of the American Society of Cataract and Refractive Surgery, the American Ophthalmological Society, and the International Intraocular Implant Club.

Dr. Koch is married to Marcia Donlea Murphey, and they have one son, Malcolm, who resides in New York City with daughter Violette. Dr. Koch's hobbies are trumpet playing, photography, and hiking. Dr. Koch is the president of the Bach Society Houston and a member of the advisory board of the Holocaust Museum Houston.

BARUCH KUPPERMANN, MD, PhD

Dr. Kuppermann is the Roger F. Steinert Professor, Chair of the Department of Ophthalmology, and Director of the Gavin Herbert Eye Institute at the University of California, Irvine. He also holds a joint appointment with the Department of Biomedical Engineering at UC Irvine. After completing his Ph.D. in neuroscience at the California Institute of Technology, Dr. Kuppermann went on to earn an M.D. at the University of Miami, and completed fellowships in Retina at both St. Joseph's in Baltimore, Maryland under Drs Ron Michels and Bert Glaser, and at the University of California, San Diego. Dr. Kuppermann's laboratory research focuses on assessing the toxicity of drugs on retinal cells in culture, including various vital stains, steroids, and anti-VEGF compounds. More recently his lab has modified its focus to study the effect of mitochondrial genetics on retinal diseases such as age related macular degeneration and diabetic macular edema. He is active in the development of drug delivery systems for the posterior segment through collaborative work with the Department of Biomedical Engineering at UC Irvine, for which he holds several patents. Dr. Kuppermann is also co-director of the Center for Translational Vision Research at UC Irvine, which is focused on developing new treatments for blinding retinal conditions. Dr. Kuppermann is a well-known teacher and lecturer, having given numerous named lectures and been an invited visiting professor at many academic institutions. He has published over 200 peer-reviewed articles in the medical literature, and over 50 book chapters. He is also strongly involved in clinical research, having served as Principal Investigator in many trials evaluating new drugs and technologies for the treatment of age related macular degeneration, diabetic retinopathy, retinal vein occlusion, retinitis pigmentosa, and other diseases of the posterior segment.

BURTON J. KUSHNER, MD

Burton Kushner graduated from Northwestern University School of Medicine in 1969. He subsequently did a residency in Ophthalmology at the University of Wisconsin, Madison, followed by a fellowship in pediatric ophthalmology at the Bascom Palmer Eye Institute. Afterwards he returned to Madison where he became the John W. and Helen Doolittle Professor of Ophthalmology, and was director of the pediatric eye and adult strabismus clinic. Dr Kushner is currently Professor Emeritus in the Department of Ophthalmology and Visual Sciences at the university of Wisconsin, Madison. He has been the Secretary for the Program of the AAOPOS, Editor in Chief of the Journal of Pediatric Ophthalmology, Founding Editor of the Journal of AAOPOS, and Co-Editor in Chief of the journal Binocular Vision and Ocular Motility. He has published over 200 peer reviewed manuscripts, authored 41 textbook chapters, edited 3 textbooks, and was sole author of another 2 textbooks. Dr. Kushner has given over 25 named lectures including the Scobee Lecture, the Costenbader Lecture, and the Bielschowsky Lecture. The many awards he received include the Heed Award, the Bressler Prize and the Senior Honor Award from both the AAO and the AAOPOS. He has been listed in every annual edition of Best Physicians in America since its first publication in 1993 and was listed in 20 most innovative pediatric surgeons alive by Top Masters in Health Care Administration. The vast majority of these publications have dealt with strabismus and disorders of binocular vision including improvement of visual fields after strabismus surgery, a hypothesis on the mechanism of "overacting" muscles, mechanisms of ocular torsion, and a body of work on intermittent exotropia.

RICHARD MARTINELLO, MD

Richard Martinello, MD, is a Yale Medicine infectious disease expert who is passionate about the prevention of healthcare-associated infections and respiratory viruses, especially influenza. He is also the medical director of the Infection Prevention department at Yale New Haven Health.

"The world of bacteria, virus, and fungi is fascinating," says Dr. Martinello. "Each microbe is its own character with its own personality and behavior. Improving our understanding of these microbes helps us to better prevent infections and identify and treat infections when they occur."

This is of particular importance for infections that can be acquired in the hospital and other healthcare settings, he says.

"Our patients come to our offices, labs, and our hospitals for the care they need to improve their health and well-being," Dr. Martinello says.

"Unfortunately, healthcare settings are intrinsically risky for acquiring infections—patients who may be sick come together to receive care and many of the lifesaving aspects of care received, such as surgery and even antibiotics, can place patients at risk for acquiring infections. I truly enjoy partnering with my team and colleagues to work together to create safer ways to care for our patients."

Dr. Martinello is an associate professor of medicine and pediatrics (infectious disease) at Yale School of Medicine. He researches the prevention of healthcare-associated infections and the epidemiology of respiratory viruses.

RICHARD PACKARD, MD DO FRCS FRCOPHTH FEBOS-CR

Richard Packard is an ophthalmic consultant. He qualified as a doctor in 1970. He was a consultant at the Prince Charles Eye Unit in Windsor England from 1982-2016. He started using phacoemulsification in 1979 and in that year inserted the world's first folded soft IOL during a rabbit study. In 1990 he implanted the very first Acrysof IOL; to date 140 million lenses of this material have now been implanted worldwide. He has lectured and operated in 61 countries on all aspects of cataract surgery and written many peer reviewed papers and book chapters. A past Board Member of ESCRS from 1999-2007 and since 2000 has been chairman of the judges for the ESCRS Video Competition. His latest interest is in laser capsulotomy which stimulated the subject for his Binkhorst Lecture at ESCRS in 2015. He has received many other awards and was an honoured guest of ASCRS in 2018. He published with Lucio Buratto "The history and evolution of modern cataract surgery" in 2018 and in 2020 also with Lucio Buratto "The history of refractive surgery".

JEAN E. RAMSEY, MD, MPH

Dr. Jean E. Ramsey is an Emerita Associate Professor of Ophthalmology and Pediatrics at Boston University School of Medicine. She worked as a pediatric ophthalmologist at Tufts, Massachusetts Eye and Ear, and Boston University Medical Center where she was also Vice-Chair of Education, Residency Program Director and Associate Dean at Boston University School of Medicine.

Dr. Ramsey is a magna cum laude graduate of Boston University School of Medicine. She has been active locally and nationally in the legislative and regulatory arena for over twenty-five years, focusing on developing systems to ensure that all children have the opportunity to develop optimal vision health and development. She spearheaded the successful passage of the landmark preschool vision screening legislation in Massachusetts.

Dr. Ramsey was elected as Council Chair for the American Academy of Ophthalmology and served as a member of the Academy's Board of Trustees. She has served in leadership positions in multiple organizations including the Massachusetts Medical Society, Massachusetts Society of Eye Physicians and Surgeons, and American Association for Pediatric Ophthalmology and Strabismus. She currently serves in leadership positions at the National Center for Children's Vision and Eye Health and is the children's vision expert for the Office of Head Start's National Center on Health, Behavioral Health, and Safety, where she advocates for children's eye safety.

MARK RUSSI, MD

Dr. Russi is a professor of medicine at the Yale Medical School. He graduated summa cum laude from Dartmouth College in 1984, was a Fulbright Scholar, earned his medical degree from the University of California San Francisco, and his public health degree from Yale. He completed both internal medicine residency and occupational and environmental medicine fellowship at Yale, joining the faculty in 1993. He is interested in the occupational medicine of healthcare workers and is active nationally in both guidance development and educational programs to enhance the safety of medical centers. Dr. Russi teaches in several courses at Yale, attends on the internal medicine inpatient service, and directs Occupational Health Services at Yale New Haven Hospital.

JOHN D. SHEPPARD, MD, MMSc

Dr. Sheppard is the President and Senior Partner of Virginia Eye Consultants; COO of EyeRx Research, Inc., a pharmaceutical development company; and founder of ProVision-Network.com, a major buying group for Ophthalmologists and Optometrists.

As an internationally recognized expert in the diagnosis and treatment of ophthalmologic disease coupled with training in immunology and preclinical science, his background provides a broad base for development of ophthalmologic drugs and devices. He received the American Academy of Ophthalmology (AAO) Senior Honor Award. By peer review he has been named one of the Best Doctors in America, in Virginia and in Norfolk since 2003. Dr. Sheppard serves as an Associate and Mentor Examiner for the American Board of Ophthalmology. Virginia Eye Consultants has received the Roaring Twenty Award for three consecutive years as one of the 20 fastest growing businesses in Eastern Virginia, as well as the U.S. Chamber of Commerce National Finalist Award as the best business in Norfolk, Hampton Roads, Virginia and the Southeastern United States.

He has participated as principal investigator in over 104 clinical research trials for major pharmaceutical companies and the FDA. Dr. Sheppard has served on the medical advisory board for 67 pharmaceutical and medical device companies. He has authored over 120 peer review abstracts, journal articles, and chapters. An acclaimed speaker, he has presented over 700 invited lectures and visiting professorships worldwide. As a Chief Medical Editor for Medscape Ophthalmology, uveitis section editor for eMedicine.com, an editorial board member for EyeNet, the AAO online uveitis committee, editorial board member of Clinical Ophthalmology and Eye & Contact Lens, and a reviewer for dozens of peer review journals, he works at the forefront of the electronic publishing age.

Dr. Sheppard joined the Eastern Virginia Medical School (EVMS) faculty in 1989 and is now Professor of Ophthalmology, Microbiology, and Molecular Biology. He also serves as Research Director of the Ophthalmology Residency Program at EVMS. As Clinical Director of the Thomas R. Lee Center for Ocular Pharmacology, he not only coordinates clinical trials, but is also instrumental in translational research bringing preclinical studies into practice. He holds a patent for photodynamic therapy of the ocular surface. During a period of major sociopolitical changes in transplantation reimbursement, he was Chairman of the Board of the Lions Eye Bank of Eastern Virginia and now serves as a Medical Director.

Dr. Sheppard received a Masters degree in Medical Science and an MD from Brown University on a full Armed Forces Health Professions Scholarship. After an internship in pediatrics at the University of Virginia, he spent four years with the U.S. Navy as 6th Fleet Medical Officer and Chief of Family Practice. He completed Ophthalmology residency at the University of Pittsburgh Eye and Ear Institute and a 30 month fellowship in corneal diseases, uveitis, third world blindness, and ocular immunology at the Proctor Research Foundation at the University of California, San Francisco. He has been funded as principal investigator for 3 major peer reviewed competitive grants from the NEI for uveitis, corneal immunology and dry eye. Dr. Sheppard has enjoyed serving on the EVMS Development Committee, the College of William & Mary Steering Committee, the Knights of Columbus, the American Legion and as Founder of the Virginia Eye Foundation.

RUSSELL N. VAN GELDER, MD, PhD

Dr. Van Gelder grew up in and around New York City. He earned his BS, MD, and PhD degrees from Stanford University. Dr. Van Gelder completed his ophthalmology residency and uveitis and medical retina fellowship at Washington University in St. Louis. He remained on faculty at Washington University from 1999 until 2007, serving as Residency Program Director, Director of Education, and Director of the Uveitis Service.

Dr. Van Gelder is an active clinician-scientist and teacher. In the area of uveitis, his laboratory pioneered application of multiplex and real-time PCR to ocular pathogen detection, and has been at the lead in employing next-generation sequencing technologies to characterization of ocular infections.

He has published over 180 papers and book chapters, and holds five patents. Dr. Van Gelder has won numerous awards for his research, including the Research to Prevent Blindness Career Development Award, the Translational Scientist Award of the Burroughs-Wellcome Foundation, the Heed-Gutman award of the Heed Foundation, and an 'Audacious Goals' award of the National Eye Institute. He was the 2017 recipient of the Bressler Prize of the Lighthouse Guild. He has been named a 'Seattle Metropolitan Magazine Best Doctor' in each of the past 10 years. He has given over 20 named lectures and over 100 invited talks, and was the 2021 Jackson Memorial Lecturer at AAO.

Dr. Van Gelder is past Associate Editor of IOVS and serves on the editorial board of Ophthalmology. Nationally, he served in 2015 as President of the American Academy of Ophthalmology. He is also past president of the American Uveitis Society and was 2018 President of the Association of University Professors of Ophthalmology. He currently serves on the Council of Councils of the NIH Director.

Prior to moving to University of Washington, he held the Bernard Becker Professorship at Washington University. Since 2008, Dr. Van Gelder has been the Boyd K. Bucey Memorial Chair, professor and chairman of the Department of Ophthalmology at University of Washington in Seattle, where he also serves as founding director of both the UW Medicine Eye Institute and the University of Washington Vision Science Center. He lives near Seattle Washington with his wife Suzy, a professor of pathology at UW. They have two adult children, Rachel (a PhD graduate student in immunology) and Max (a computer scientist)

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Financial Disclosures

Speaker	Financial Interest Received
Natalie Afshari, MD	NIN R0 1EY029166 Patent 17-30408 & 62329467-Grant; Trefoil, Aercula Tech, Alpine Biotherapeutic, Clans Biotech - <i>Consultant</i>
Guillermo Amescua, MD	None
David F. Chang, MD	None
Anne L. Coleman, MD, PhD	None
Vincent P. deLuise, MD	None
Warren Hill, MD	Alcon Laboratories, Optos- <i>Cosultant & Speaker</i> ; Haag-Streit, Switzerland - <i>Consultant, Speaker, Research & Licensing</i> ; Omega Ophthalmics- <i>Consultant & Stockholder</i> ; LensAR- <i>Consultant, Research & Speaker</i>
Douglas D. Koch, MD	Alcon, Carl Zeiss Meditec, Johnson & Johnson Surgical Vision, Bausch & Lomb, & Perfect Lens - <i>Consultant</i>
Baruch Kuppermann, MD	Forthcoming
Burton J. Kushner, MD	None
Richard Martinello, MD	None
Jean E. Ramsey, MD, MPH	None
Mark Russi, MD	None
Richard Packard, MD	Excel-lens - <i>Consultant and equity shareholde</i> ; Core Surgical - <i>Unpaid Consultant</i>
John D. Sheppard, MD	See below
Russell N. Van Gelder, MD	None

John D. Sheppard, MD, MMSc Professional Disclosures 2021	Advisory Board	Speakers Bureau	Consulting Fee	Clinical Research	Investor	Ownership in Stock Interest	Shareholder
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EyeGate Research	X	X		X		X	X
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Name _____ Email _____

Please evaluate the following topics on a scale of 1 to 4 with the following values:

1 - poor 2 - satisfactory 3 - good 4 - excellent

Circle One

- | | | | | |
|------------------------------|---|---|---|---|
| 1. SUBJECT MATTER OF MEETING | 1 | 2 | 3 | 4 |
| 2. FACILITIES | 1 | 2 | 3 | 4 |
| 3. AUDIOVISUAL | 1 | 2 | 3 | 4 |
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With an Artistic Vision: Creativity and Visual Loss

– Vincent P. deLuise, MD

- | | | | | | | |
|---|---|---|---|---|--------|-------|
| Degree to which objectives were met | 1 | 2 | 3 | 4 | | |
| Did speaker disclose financial interests in any product or company? | | | | | ___Yes | ___No |
| Was the presentation fair and balanced? | | | | | ___Yes | ___No |

Covid Vaccination, Treatment, Prevention of Transmission in the Office Setting

– Richard Martinello, MD – Mark Russi, MD

- | | | | | | | |
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| Degree to which objectives were met | 1 | 2 | 3 | 4 | | |
| Did speaker disclose financial interests in any product or company? | | | | | ___Yes | ___No |
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State of the Art Ocular Surface Disease Management to Enhance Surgical Outcomes

– John D. Sheppard, MD

- | | | | | | | |
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Five Compelling Lessons Learned from the Greatest Team of Cataract - David Parke, Sr. Lecture

– David F. Chang, MD

- | | | | | | | |
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| Degree to which objectives were met | 1 | 2 | 3 | 4 | | |
| Did speaker disclose financial interests in any product or company? | | | | | ___Yes | ___No |
| Was the presentation fair and balanced? | | | | | ___Yes | ___No |

Molecular Diagnostics for Infectious Eye Diseases: New Techniques and Insights

– Russell Van Gelder, MD, PhD

- | | | | | | | |
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Visual Axis Centration of Capsulotomy and IOL Using Automated Capsulotomy Devices

– Richard Packard, MD

- | | | | | | | |
|---|---|---|---|---|--------|-------|
| Degree to which objectives were met | 1 | 2 | 3 | 4 | | |
| Did speaker disclose financial interests in any product or company? | | | | | ___Yes | ___No |
| Was the presentation fair and balanced? | | | | | ___Yes | ___No |

Cataract Surgery in the Setting of Ocular Inflammation

– Guillermo Amescua, MD

- | | | | | | | |
|---|---|---|---|---|--------|-------|
| Degree to which objectives were met | 1 | 2 | 3 | 4 | | |
| Did speaker disclose financial interests in any product or company? | | | | | ___Yes | ___No |
| Was the presentation fair and balanced? | | | | | ___Yes | ___No |

Pediatric Eye Injury in Sports and Recreation: Trends and Pandemic Effect

– Jean E. Ramsey, MD, MPH

- | | | | | | | |
|---|---|---|---|---|--------|-------|
| Degree to which objectives were met | 1 | 2 | 3 | 4 | | |
| Did speaker disclose financial interests in any product or company? | | | | | ___Yes | ___No |
| Was the presentation fair and balanced? | | | | | ___Yes | ___No |

Neuroprotection & Neuroenhancement for the Treatment of Retinal Diseases

– Baruch Kuppermann, MD

Degree to which objectives were met 1 2 3 4
Did speaker disclose financial interests in any product or company? ___Yes ___No
Was the presentation fair and balanced? ___Yes ___No

The Role of Inflammation in DME & Impact on Clinical Management

– Baruch Kuppermann, MD

Degree to which objectives were met 1 2 3 4
Did speaker disclose financial interests in any product or company? ___Yes ___No
Was the presentation fair and balanced? ___Yes ___No

IOL Calculations 2022: Progress & Limits

– Douglas D. Koch, MD

Degree to which objectives were met 1 2 3 4
Did speaker disclose financial interests in any product or company? ___Yes ___No
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What Went Wrong?

– Warren Hill, MD

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Was the presentation fair and balanced? ___Yes ___No

21st Century Threats to Glaucoma Care: Epidemics/Pandemics

– Anne L. Coleman, MD, PhD

Degree to which objectives were met 1 2 3 4
Did speaker disclose financial interests in any product or company? ___Yes ___No
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Lifestyle Factors and Glaucoma

– Anne L. Coleman, MD, PhD

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Advances in Corneal Transplantation Surgery and Fuchs Dystrophy

– Natalie Afshari, MD

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What I have Learned in 45 years of Studying Intermittent Exotropia

– Burton J. Kushner, MD

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Was the presentation fair and balanced? ___Yes ___No

Outcome Measurements

Name: _____

1. Has this symposium changed the way you will care for patients? Yes No
 2. Do you believe this symposium will have a positive effect on patient surgical or clinical outcomes? Yes No
 3. Can you offer other speakers or topics that will provide information to improve clinical outcomes at the next meeting?
 Yes No
-

Physician COMPETENCY QUESTIONS 1-13 & 1-15-22

Name _____ Email _____

With an Artistic Vision: Creativity and Visual Loss – Vincent P. deLuise, MD

Question 1. What are the ways in which progressive cataracts can affect an artist's visual perception?

Question 2. Would the artists discussed have painted similarly or differently had they not had visual loss?

What Went Wrong? – Warren Hill, MD

Question 1. How should the IOL for each cataract surgery patient be identified?

- A. The boxes with the day's IOLs should be stacked in the order of use.
- B. Develop a reliable system that links the operative eye, IOL model and IOL power with each patient name.
- C. Give the box with the IOL to be used to the patient prior to surgery.
- D. None of the above.

Question 2. Name one or more best practices for pre-operative biometry.

- A. Apply validation criteria to all measurements.
- B. Optimize of the ocular surface prior to biometry.
- C. Confirm that contact lenses have been removed prior to biometry.
- D. All of the above.

Cataract Surgery in the Setting of Ocular Inflammation – Guillermo Amescua, MD

Question 1. What is the recommended period of anterior chamber inflammation quiescence before moving forward with cataract surgery in the setting of uveitis/ocular surface inflammation? _____

Question 2. The following syndromes have demonstrated very good outcomes with "in the bag-one piece-acrylic hydrophobic IOL" for the management of uveitic cataracts, except:

- A. JIA-associated uveitis
- B. Fuchs' heterochromic iridocyclitis
- C. Herpetic iridocyclitis
- D. Ocular Cicatricial pemphigoid

David Parke, Sr. Lecture Five Compelling Lessons Learned from the Greatest Team of Cataract Surgeons – David F. Chang, MD

Question 1. For preventing posterior capsular opacification, a square edge to a PMMA IOL is:

- 1. Better than a round edge PMMA IOL
- 2. Worse than a round edge PMMA IOL
- 3. No different than a round edge PMMA IOL
- 4. Has never been evaluated with a good clinical trial

Question 2. The following can be concluded from the Aravind antibiotic prophylaxis studies:

- 1. Intracameral cefuroxime is effective at reducing endophthalmitis
- 2. If administering intracameral antibiotic, the endophthalmitis rate is no higher following PCR
- 3. Intracameral antibiotic reduces endophthalmitis with both manual ECCE and phaco
- 4. Adding topical antibiotic further reduces endophthalmitis, compared with intracameral antibiotic alone.

State of the Art Ocular Surface Disease Management to Enhance Surgical Outcomes – John D. Sheppard, MD

Question 1. The ocular surface consists of the following units except:

- a. Cranial Nerve VII (Facial Nerve)
- b. Cranial Nerve V (Trigeminal Nerve)
- c. The Lacrimal Functional Unit (LFU)
- d. The bony orbital rim
- e. The naso-lacrimal drainage apparatus

Question 2. The most prevalent driver of dry eye disease is:

- a. Melbomian gland disease
- b. Lacrimal aqueous insufficiency
- c. Senescent corneal nociceptor neurotrophin production
- d. Conjunctival goblet cell deficiency
- e. Age related androgen depletion

21st Century Threats to Glaucoma Care: Epidemics/Pandemics – Anne L. Coleman, MD, PhD

Question 1. Management of glaucoma patients during the pandemic was impacted because of:

- a. Decreased access
- b. Fear by patients of returning to the eye doctor
- c. Fogging of lenses from mask wearing during visual field exams
- d. All of the above

Question 2. Glaucoma is caused by cigarette smoking. True or false.

Molecular Diagnostics for Infectious Eye Diseases: New Techniques and New Insights – Russell Van Gelder, MD, PhD

Question 1. Which of the following is true regarding the polymerase chain reaction for diagnostics?

- a. The technique cannot be used for parasitic organisms
- b. Pan-viral primers allow amplification of most viral genomes
- c. PCR can be run quantitatively to determine pathogen load
- d. RNA viruses cannot be detected using RT-PCR

Question 2. Which strain of adenovirus is responsible for most epidemic keratoconjunctivitis in the US?

- a. D8
- b. E4
- c. B3
- d. D37

IOL Calculations 2022: Progress & Limits – Douglas D. Koch, MD

Question 1. Which of the following is not a parameter used in some IOL calculation formulas:

- a. White-to-white
- b. Refraction
- c. Gender
- d. Ethnicity
- e. None of the above

Question 2. The 2 major sources of error in IOL calculations are:

- a. Axial length and ACD
- b. Corneal power and axial length
- c. ELP and corneal power (correct)
- d. ELP and axial length

Neuroprotection & Neuroenhancement for the Treatment of Retinal Diseases – Baruch Kuppermann, MD

Question 1. Inhibition of which complement factors have been shown to slow down progression of geographic atrophy in randomized controlled clinical trials?

- a. Complement factor 3
- b. Complement factor 5
- c. Both of the above

Question 2. Neuroprotection of retinal cells can be achieved by which of the proposed mechanisms below?

- a. Mitochondrial membrane stabilization
- b. Reducing oxidative stress
- c. Reducing inflammation
- d. All of the above

The Role of Inflammation in DME & Impact on Clinical Management – Baruch Kuppermann, MD

Question 1. Which cytokines increase over time and level of retinopathy in eyes with diabetic macular edema?

- a. Vascular Endothelial Growth Factor
- b. Interleukins
- c. Monocyte chemoattractant protein-1
- d. B and C

Question 2. The Early Trial analysis of the DRCRnet Protocol I data showed that after how many anti-VEGF injections it was potentially possible to predict vision outcomes in patients with DME?

- a. 1
- b. 3
- c. 6
- d. 12

Visual Axis Centration of Capsulotomy and IOL Using Automated Capsulotomy Devices – Richard Packard, MD

Question 1. In relation to the Purkinje images:

- a. The first Purkinje image always marks the dilated pupil centre True False
- b. The first Purkinje image comes from the anterior cornea True False
- c. The second Purkinje Image is important clinically for IOL centration True False
- d. The fourth Purkinje image is always inverted True False

Question 2. Aspheric IOL optics:

- a. Improve mesopic contrast sensitivity compared to non-aspheric optics True False
- b. Lead to an improved range of vision when the biometry for distance is correct True False
- c. Are more tolerant of decentration than non-aspheric optics True False
- d. Are more important to use with myopic than hyperopic eyes True False

Pediatric Eye Injury in Sports and Recreation: Trends and Pandemic Effect – Jean E. Ramsey, MD

Question 1: What percentage of childhood sports-related eye injuries can be prevented?

- a. 0-25%
- b. 26-50%
- c. 51-75%
- d. Greater than 75%

Question 2: The following represent trends for ocular injury in children **EXCEPT**:

- a. Rate of injury from non-powder guns has increased by over 150%.
- b. Playground equipment and trampolines are the most commonly associated with eye injury in the 5-9 year old age group.
- c. Eye-related emergencies account for one-third of all emergency department visits.
- d. Pediatric eye-related emergency visits were reduced during the pandemic, compared with pre-COVID volume.
- e. Exposure of children to alcohol-based hand sanitizer has been reported to have increased by 7-fold during the pandemic.

The Connecticut Society of Eye Physicians designates this educational activity January 13, 2022 for a maximum of 2.5 AMA PRA Category I Credit(s)TM and January 15, 2022 for a maximum of 5.25 AMA PRA Category I Credit(s)TM.

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