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CHICAGO

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From the Editor
Welcome to Chicago!

The Academy is proud to present its 120th annual meeting, AAO 2016: Innovate. Today, it kicks off with the Opening Session, featur-
ing the Academy President’s address, by William L. Rich III, MD,
FACS; the Academy Chief Executive Officer’s ad-
dress, by David W. Parke II, MD; and presenta-
tion of the Academy’s highest honors, with
the Laureate Recognition Award going to
Matthew D. Davis, MD. In addition, Fran-
cesca Casadio, PhD, will give the Michael
F. Marmor, MD, Lecture in Ophthalmology
and the Arts, titled “The Alchemy of Color
in 19th Century Art,” followed by the
Jackson Memorial Lecture by Douglas
D. Koch, MD, “Hiding in Plain Sight: The
Enigmatic Cornea and IOL Calculations.”

This year, there are 50 symposia on a broad
range of topics, from case-based corneal conundrums
to clinical dilemmas in neuro-ophthalmology to areas of contro-
versy regarding cataract surgery preferred practices. Please note,
as well, that 3 new Skills Transfer labs have been added—Advanced
Suturing: Scleral and Iris Fixation of PC IOLs Plus Intraocular Knot
Tying; Laser Retinopexy for Retinal Breaks: Simulation Workshop;
and Smartphone Fundus Photography—definitely worth checking
out. Be sure to make time for these and other stimulating activities
at this year’s meeting. Refer to the contents of this
Academy News

and aao.org/eyenet/academy
live
for additional information. We
hope that your time in Chicago is enjoyable and informative.

Ruth D. Williams, MD
Chief Medical Editor, EyeNet Magazine

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On the Cover
Von Hippel–Lindau
Photo by Mike Arango
National Eye Institute
Bethesda, Maryland
The 2016 Presidential Awards
The Reasons Behind Dr. Rich’s Choices

When selecting the 2016 Guests of Honor, Academy President William L. Rich III, MD, FACS, wanted to recognize those individuals who contributed to his life as an ophthalmologist and who reflect the best qualities of the profession. These are the outward-looking faces of the Academy—those who have imparted the organization’s goals and aspirations to their communities.

Here, Dr. Rich details the specific reasons for these selections, as well as those for the Special Recognition Award and the Distinguished Service Award.

Today, Sunday, Dr. Rich will recognize these award recipients at the AAOF 2016 Opening Session, which takes place from 8:30 to 10:00 a.m. in North, Hall B.

**GUEST OF HONOR**

**Stephen A. Kamenetzky, MD**

“In order for a medical society and its membership to adopt new technology and improve patient care, financial stability must be achieved for both the organization and the physician. Only then can robust educational and quality improvement programs be developed and implemented.

“I am honoring Dr. Kamenetzky because he has quietly worked for over 30 years as a volunteer to ensure the financial health and security of the Academy and the profession. After the merger with the American Association of Ophthalmology in 1981, the Academy agreed to assume the new responsibility for advocacy and socioeconomic impact. I was assigned to be chairman of the Liaison Information Committee. A part of my duties was giving 6 hours of lectures at the annual meeting on the topic of practice management. During one of these sessions, Dr. Kamenetzky approached me, mentioning that he too gave the same talks to young ophthalmologists and residents at Washington University in St. Louis. From that moment on, he became my model for voluntarism at the Academy.

“Over the years, he has chaired the Practice Management Committee, the Health Policy Committee, and Ophthalmic Mutual Insurance Company (OMIC). He has also designed the document outlining financial services and managed services and spent 20 years successfully leading Academy efforts at the AMA Relative Value Scale Update Committee (RUC).

“Dr. Kamenetzky has been an example for all ophthalmologists—and all professional societies—with his brilliant insights, analysis, and humor.”

**GUEST OF HONOR**

**A. Raymond Pilkerton Jr., MD**

“Dr. Pilkerton is the reason I am an ophthalmologist. I met him when I was a medical student at Georgetown University Medical School, where I took a fourth-year elective in ophthalmology. His passion for the specialty was obvious; however, more meaningful to me was the way he interacted with patients with severe retinal disease. His equanimity, patience, and caring were all incredibly influential.

“I left Georgetown to do a surgical internship at San Francisco General Hospital and then a planned residency in orthopedic surgery. But I always carried around with me a visual image of Dr. Pilkerton’s professionalism. It impacted me. When I completed my internship in San Francisco, I called him and asked about an ophthalmology residency back at Georgetown. My career as an ophthalmologist was then set in motion.

“Dr. Pilkerton left academia over 30 years ago and formed The Retina Group of Washington with William S. Gilbert, MD. It’s now the premier group in the Baltimore/Washington, D.C., area, with 24 dedicated retinal specialists. The most important reason for this success is Dr. Pilkerton’s emphasis on quality, empathy, and always ‘doing the right thing.’ You can be a great surgeon, but if you don’t buy into the culture of listening to patients and respecting your staff and everyone in the health care team, your career will be an uphill battle.

“His is a role model and mentor and is held in high esteem by the Washington, D.C., ophthalmic community.”

**GUEST OF HONOR**

**James A. Loreto, MD**

“Not only does ophthalmology need financial stability and role models to improve care—we also need men and women in the trenches every day turning that knowledge and technology into improved eye health for our patients. Dr. Loreto exemplifies this and all that is good about our profession.

“Dr. Loreto and I share a long history. We met the first day of my Georgetown residency. He was also my chief resident at the VA. Since then, we have been lifelong friends, professional confidants, and fishing and bicycling partners. For 30 years, he practiced high-quality, ethical care and was a superb surgeon respected by his patients and admired by his fellow ophthalmologists. He took the time to attend courses, educate himself about all of the new surgical approaches, and share this knowledge with colleagues. For example, we consulted one another throughout our young careers to find our way through the avalanche of conflicting evidence and poor science during the move from intracapsular surgery to IOLs and phacoemulsiﬁcation.

“For these reasons, Dr. Loreto is recognized as a proxy for all of those ophthalmologists working hard on a daily basis to improve quality care in an ethical manner.”

**SPECIAL RECOGNITION AWARD**

**European Board of Ophthalmology**

“We are honoring the European Board of Ophthalmology (REBO) for its strong and sustained partnership with the Academy in developing and formally endorsing the Basic and Clinical Science Course for use in Europe and for its successes as a certifying body.

“Founded in 1992 in London, the REBO is a specialized agency of the European Union of Medical Specialists. The organization’s mission is to safeguard and harmonize the highest standards of ophthalmic care and training across Europe.”

Accepting the award is EBO President Peter J. Ringens, MD, PhD.

**DISTINGUISHED SERVICE AWARD**

**Association of University Professors of Ophthalmology**

“We are honoring the Association of University Professors of Ophthalmology (AUPo) for its critical role in academic ophthalmology and for supporting undergraduate and graduate education in ophthalmology and ophthalmic research.

“For 50 years, the AUPo has strived to strengthen ophthalmology departments across both the United States and Canada. The organization has also dedicated itself to promoting leadership opportunities for department chairs, program directors, and other faculty members and to fostering ethical practice and excellence in eye care.”

Accepting the award are AUPo President Oscar A. Cruz, MD, and Steven E. Feldon, MD, MBA, AUPo Executive Vice President.
IMPORTANT SAFETY INFORMATION

OMIDRIA (phenylephrine and ketorolac injection) 1% / 0.3% must be added to irrigation solution prior to intraocular use.

OMIDRIA is contraindicated in patients with a known hypersensitivity to any of its ingredients. Systemic exposure of phenylephrine may cause elevations in blood pressure.

Use OMIDRIA with caution in individuals who have previously exhibited sensitivities to acetylsalicylic acid, phenylacetic acid derivatives, and other nonsteroidal anti-inflammatory drugs (NSAIDs), or have a past medical history of asthma.

The most commonly reported adverse reactions at 2-24% are eye irritation, posterior capsule opacification, increased intraocular pressure, and anterior chamber inflammation.

Use of OMIDRIA in children has not been established.

INDICATIONS AND USAGE

OMIDRIA is added to ophthalmic irrigation solution used during cataract surgery or intraocular lens replacement and is indicated for maintaining pupil size by preventing intraoperative miosis and reducing postoperative ocular pain.


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*Individual insurance coverage and policies may vary, and Omeros does not guarantee insurance coverage or payment. Omeros offers payments under the OMIDRIAssure “We Pay the Difference” program on behalf of qualifying patients. OMIDRIAssure is subject to change without notice.

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Matthew Dimsdale “Dinny” Davis, MD, is best known for his key role in developing and conducting the landmark Diabetic Retinopathy Study (DRS); however, he believes that his role in recruiting outstanding people for the ophthalmology department at the University of Wisconsin Medical School in Madison may be equally, or perhaps even more, important. His greatest motivating force? His desire for the department to become the very best it could be.

“Over the years, I’ve learned to do the best that I can in every endeavor and to accept that success is often partial,” he said. “It’s been sort of a life lesson.” Dr. Davis attributes this lesson to his firstborn son, Matthew. “He had Down syndrome, and he was greatly loved by our family. One of the most important things I learned in life was from him: It was to do the best you can within your limits, to accept what ability you have, and to be forgiving of yourself.”

Dr. Davis receives the Laureate Recognition Award during the Opening Session, which takes place Sunday, 8:30-10:00 a.m., in North, Hall B.

Early Years

Dr. Davis was immersed in ophthalmology from the outset. His father, Frederick Allison Davis, MD, practiced in Madison and was the inaugural chair of the ophthalmology division in the surgery department of the University of Wisconsin Medical School in 1925. “My father was eager to have my older brother, Frederick Jefferson Davis, and me follow in his footsteps. He loved his profession, particularly the small part of his time that he devoted to ophthalmic pathology, but he refrained from being too directive," Dr. Davis said. “By nature, I was interested in many things and reluctant to choose one too soon. So, why not choose ophthalmology, a specialty that kept many options open, included research and/or clinical practice, and allowed for the use of both medical and surgical approaches, while pleasing my father as well?”

Dr. Davis proceeded to earn his medical degree at the University of Pennsylvania. He then completed an internship and residency at the University of Wisconsin Hospital in Madison, although his residency was interrupted by 2 years of active duty in the U.S. Naval Reserve during the Korean War. When he returned, he went to Boston to finish coursework for his residency and had an extra 6 months to fill. “One of my father’s friends, Trygve Sunderson, was practicing ophthalmology in Boston, and he told my father that the latest, most fascinating thing in the field was Charles Schepens’ retina program. I spoke to Dr. Schepens, and he was kind enough to accept me for a 6-month fellowship at the Massachusetts Eye and Ear Infirmary, even though most of his fellows then came for a year. That’s how I got into retina.”

Fellowship With Dr. Schepens

Dr. Schepens, known as the founder of modern retinal surgery, was a pivotal force in Dr. Davis’ professional development. “Dr. Schepens was very kind and gentle, and I learned perseverance in spades from him,” he said. “Putting on his binocular indirect ophthalmoscope and getting to see the far peripheral retina with stereopsis and with scleral depression—which just meant pushing a little bit on the eye through the eyelid and bringing the peripheral retina into view and elevating it a little bit—was like being able to palpate an abdomen and, at the same time, seeing into the abdomen. You were seeing into the eye, and you could also palpate it. It was, and still is, absolutely amazing. It was clearly a huge breakthrough.”

During the fellowship, Dr. Schepens taught him the scleral buckling technique, which, although considered radical at the time, soon became the standard treatment for retinal detachment. Dr. Davis completed the fellowship in 1956. He then returned to Madison and joined his father, brother, and their colleagues in ophthalmic practice and started as a part-time faculty member in ophthalmology at the University of Wisconsin Medical School. “Initially, many of my retinal detachment patients were referred for reoperation after failure of an initial operation elsewhere,” he said. “Some were very challenging, and I was very thankful for all that Dr. Schepens had taught me.”

The DRS: A Landmark Clinical Trial

Dr. Davis is best known for his seminal work in diabetic retinopathy clinical trials, beginning with his position as the national chair for the DRS. At that time, approximately half of patients diagnosed with proliferative diabetic retinopathy would be legally blind within 3 years. Over the next few decades, that percentage dropped to 5%, and the DRS was a critical component in that success.

When the DRS began in 1971, it was the first major clinical trial funded by the National Eye Institute (NEI). In 1976, Dr. Davis and his collaborators published a pivotal paper based on the DRS findings, showing the substantial benefit of scatter laser photocoagulation in treating diabetic retinopathy. This finding was revolutionary because it ran counter to prevailing practices based largely on those standard practices based largely on those results, but also on clinical necessities, was brilliant. He is my model for the perfect study chairman.”

But, as Dr. Ferris explained, “Dinny had the perfect collaborative personality to make things work—he is a great listener and leader. His insistence on focusing on the results of the clinical trial and letting the community develop standard practices based largely on those results, but also on clinical necessities, was brilliant. He is my model for the perfect study chairman.”

Dr. Davis said, “I had all kinds of people to help, such as Fred Ederer and...
The iStent® Trabecular Micro-Bypass Stent (Models GTS100R and GTS100L) is indicated for use in conjunction with cataract surgery for the reduction of intraocular pressure (IOP) in adult patients with mild to moderate open-angle glaucoma currently treated with ocular hypotensive medication.

**CONTRAINDICATIONS.**

The iStent® is contraindicated in eyes with primary or secondary angle closure glaucoma, including neovascular glaucoma, as well as in patients with vitreous hemorrhage, thyroid eye disease, Sturge-Weber Syndrome or any other type of condition that may cause elevated episcleral venous pressure.

**WARNINGS.**

Gonioscopy should be performed prior to surgery to exclude PAS, rubeosis, and other angle abnormalities or conditions that would prohibit adequate visualization of the angle that could lead to improper placement of the stent and pose a hazard. The iStent® is MR-Conditional meaning that the device is safe for use in a specified MRI environment under specified conditions; please see label for details. **PRECAUTIONS.**

The surgeon should monitor the patient postoperatively for proper maintenance of intraocular pressure. The safety and effectiveness of the iStent® has not been established as an alternative to the primary treatment of glaucoma with medications, in children, in eyes with significant prior trauma, chronic inflammation, anterior segment scarring, in pseudophakic patients with glaucoma, in patients with pseudoexfoliative glaucoma, pigmentary, and newly diagnosed patients with untreated IOP less than 22 mm Hg, or greater than 31 mm Hg after "washout" medications, or in patients with prior glaucoma surgery or any type including argon laser trabeculoplasty, for implantation of more than a single stent, after complications during cataract surgery, and when implantation has been unaccompanied by cataract surgery with IOL implantation for visually significant cataract.

**ADVERSE EVENTS.**

The most common post-operative adverse events reported in the randomized pivotal trial included early post-operative corneal edema (8%), loss of ≥ 1 line at or after the 3 month visit (7%), posterior capsular opacity (6%), early post-operative corneal abrasion (3%), and early post-operative anterior chamber cells (3%). Please refer to Directions for Use for additional adverse event information. **CAUTION:** Federal law restricts this device to sale by, or on the order of, a licensed physician. Please reference the Directions for Use labeling for a complete list of contraindications, warnings, precautions, and adverse events.
Rick Ferris at the NEI, Genell Knatterud and Chris Klimt at the coordinating center, and all of the ophthalmologists and other personnel at the clinical centers. I got in on the ground floor because during the late 1960s, my colleagues and I at the University of Wisconsin had documented the natural course of diabetic retinopathy, first in serial color-coded retinal diagrams drawn by Yvonne Magli, our medical illustrator, using binocular ophthalmoscopy and later, when the Zeiss fundus camera became available to us, in stereo photographs. Our findings, particularly when presented as scientific exhibits, were so impressive that I was asked to help with this trial.

Dr. Davis emphasized that the DRS was a joint effort. “You may notice that almost all of the DRS papers are authored by the DRS Research Group. We didn’t want any one name on them because we wanted the whole group to get equal credit. It was mainly a group effort, and the other members of the group have not gotten enough credit.”

The Fundus Photograph Reading Center

To grade retinal photographs collected in the DRS trial, Dr. Davis established the University of Wisconsin Fundus Photograph Reading Center (FPRC) in 1970—the first centralized, independent reading center for randomized clinical trials of retinal diseases. At the center, Dr. Davis and his collaborators developed photographic standards and systems for analyzing the characteristics of the lens and retina, and they designed quality-control systems to increase accuracy and assess reproducibility. To this day, FPRC works with researchers from around the world to analyze photographs of the retina and assess changes over time.

Classification of Diabetic Retinopathy and AMD

Finally, Dr. Davis and his collaborators developed the modified Airlie House classification of diabetic retinopathy and, later, the Early Treatment Diabetic Retinopathy Study severity scale, as well as the Age-related Eye Disease Study scales for age-related macular degeneration. “Dr. Davis is well known for his careful and complete data analysis,” said George B. Bartley, MD, editor-in-chief of *Ophthalmology* and soon-to-be CEO of the American Board of Ophthalmology. “These classifications remain the gold standards not only for studying these disorders but also for providing direct patient care around the world.”

Despite the extraordinary amount of hard work and dedication that Dr. Davis put into his career and the profession, he believes that he owes much to being in the right place at the right time. “A lot of luck was involved, from being in Boston in 1955 to the fact that my father knew Trygve Gunderson and asked for his advice—that was the biggest stroke of luck I ever had,” he said. “More luck arrived when Ms. Magli, a graduate in fine arts who applied for a secretarial job, rapidly mastered binocular indirect ophthalmoscopy and stereo fundus photography and joined me in following patients with diabetic retinopathy early in my career when I had time to do it.” He also considers himself extremely fortunate to have met the collaborators he worked with. “My mentors were my father and his partner, Peter Duehr, as well as Charles Schepens. From them I learned many lessons. Perhaps the most important were gentleness and perseverance.”
INSIGHTS COME TO LIGHT

AT BOOTH 1408

Saturday, October 15, 2016

9:30 AM
Complex Cases in Cataract Surgery
Eric Donnenfeld, MD

10:00 AM
Expanding Options in Ab-Interno Glaucoma Surgery
Nathan M. Radcliffe, MD

10:30 AM
New Insights in Diabetic Macular Edema
David Eichenbaum, MD

11:00 AM
The Science Behind Neurostim and Ophthalmology
John Sheppard, MD

11:30 AM
From Studies to Clinical Use: Diabetic Macular Edema Data and Case Review
Brian Chan-Kai, MD

12:00 PM
Episceral Venous Fluid Wave: Intraoperative Evaluation of the Trabecular Outflow Pathway
Davinder Grover, MD

12:30 PM
Nasty Cataracts: Prevention and Management of Complications
Robert Osher, MD

1:00 PM
Strategies for the Rock-Hard Nucleus
David Chang, MD

1:30 PM
Glaucoma: Which Surgery for Which Patient?
Jonathan S. Myers, MD

2:00 PM
The Key Elements of Effective Intravitreal Injection Reimbursement
Angela Chambers

2:30 PM
Understanding the Signs & Symptoms Disconnect
Richard Adler, MD

3:00 PM
Retina FIRST Writers’ Award Ceremony

11:30 AM
From Studies to Clinical Use: Diabetic Macular Edema Data and Case Review
Michael Singer, MD

12:00 PM
Surgical Techniques for the Complex Cataract Patient
Terry Kim, MD

12:30 PM
Managing Glaucoma With Surgical and Medical Options
E. Randy Craven, MD

1:00 PM
The Science Behind Neurostim and Ophthalmology
John Sheppard, MD

1:30 PM
Olufatosin U. Smith, MD

2:00 PM
Iris Repair, Reconstruction, and Replacement
Brandon Ayres, MD

2:30 PM
The Key Elements of Effective Intravitreal Injection Reimbursement
David Baczewski

3:00 PM
Advances in Glaucoma Surgery
Robert J. Noecker, MD

Monday, October 17, 2016

9:30 AM
Lowering IOP in the Real World
Ronald L. Gross, MD

10:00 AM
New Insights in Diabetic Macular Edema
Jeremy Wolfe, MD

10:30 AM
New Insights in Diabetic Macular Edema
Joseph Conen, MD

11:00 AM
New Insights in Diabetic Macular Edema
María H. Berrocal, MD

11:30 AM
New Insights in Diabetic Macular Edema
Charles Wykoff, MD, PhD

12:00 PM
The Science Behind Neurostim and Ophthalmology
Preeya Gupta, MD

2:00 PM
The Key Elements of Effective Intravitreal Injection Reimbursement
Angela Chambers

Sunday, October 16, 2016

9:30 AM
Management of Subluxated IOLs
Bonnie Henderson, MD

10:00 AM
DMFK Pearls
Neda Shamie, MD

10:30 AM
New Insights in Diabetic Macular Edema
Ashkan Abbey, MD

11:00 AM
Managing Uveitis-Glaucoma-Hyphema Syndrome With Complex IOL and Glaucoma Surgery
Arsham Sheybani, MD

12:30 PM
Nasty Cataracts: Prevention and Management of Complications
Robert Osher, MD

1:00 PM
Strategies for the Rock-Hard Nucleus
David Chang, MD

1:30 PM
Glaucoma: Which Surgery for Which Patient?
Jonathan S. Myers, MD

2:00 PM
The Key Elements of Effective Intravitreal Injection Reimbursement
Angela Chambers

2:30 PM
Understanding the Signs & Symptoms Disconnect
Richard Adler, MD

3:00 PM
Retina FIRST Writers’ Award Ceremony
How to Get Involved in Mission Work
Make an Impact Here and Abroad

A re you interested in volunteering your time and medical expertise here in the United States or overseas? Here’s how to get started—and what to expect—from this type of service.

Assess Your Options
Are you a resident? Not so long ago, U.S. residency programs typically didn’t integrate overseas experiences into their educational program, with one rare exception being the well-established relationship between Aravind Eye Hospital and Wilmer Eye Institute. However, global ophthalmology rotations are becoming more common now that the Accreditation Council for Graduate Medical Education (ACGME) has made overseas education permissible within ophthalmology program requirements.

“Before you pursue an overseas rotation, you need to be sure you are fully prepared for what you are getting into,” said Benjamin Siatu’u, MD, Wilmer Eye Institute.

Are you a fellow? Currently, 5 formal global eye care fellowships are offered through academic institutions:

• Truhslein Eye Institute’s Prevention of Global Blindness Fellowship (University of Nebraska; www.unmc.edu/eye/residencies-fellowships/fellowship/index.html)
• Moran Eye Center’s Moran International Fellowship (University of Utah; http://medicine.utah.edu/opthalmology/education/fellowship/international.php)
• Emory Eye Center’s Global Ophthalmology Fellowship (Emory University; www.eyecenter.emory.edu/education/global_ophthalmology_fellowship.htm)
• Wills Eye Center for Academic Global Ophthalmology Fellowship (Wills Eye Hospital; www.willsEye.org/academic-global-ophthalmology-fellowship)
• Dean McGee Eye Institute’s Global Eye Care Fellowship (University of Oklahoma; dmei.org/fellowship-programs)

“These are the best avenues for people who want to pursue global eye care; however, informal or informal programs are available,” said Michael Feilmeier, MD, who completed the first fellowship offered by Moran Eye Center in 2009 and went on to create a 1-year fellowship program at Truhslein Eye Institute, where he is now medical director of the international division of ophthalmology.

Are you a midcareer or senior MD? Consider these organizations that seek to serve the visually impaired.

• Orbis International. The “flying eye hospital” is one of the oldest models for bringing surgical knowledge and skills to doctors in developing countries. Orbis now serves more than 90 countries and trains thousands of medical professionals each year (www.orbis.org).
• Seva Foundation. Working with local partners in 20 different countries, Seva strives to create self-sustaining programs (www.seva.org).
• Himalayan Cataract Project (HCP). Initially founded to establish a sustainable infrastructure for eye care in the Himalaya, HCP now has programs in 7 countries (www.cureblindness.org).
• EyeCare America (ECA). ECA provides an opportunity to volunteer in the United States. Sign up with the Academy’s EyeCare America program to treat uninsured and underinsured patients without charge (www.aoa.org/eyecare-america).

Know Before You Go
Expect the unexpected. Not everyone has the means to work in locations where things can be unpredictable. “If you have international travel experience, you probably understand that the unexpected is almost always to be expected, which requires patience and flexibility. And, although you are there to share your expertise, you are also a guest and must be respectful even if procedures are different from what you might be accustomed to,” said Grace Sun, MD, assistant professor of ophthalmology and head of the residency program at Weill Cornell Medical College in New York.

Seek long-term, sustainable improvements. “The best kind of mission work involves creating connections that build with each visit. The goal is to develop long-term and mutually beneficial relationships that improve the existing situation in an underserved location and to facilitate these changes in a sustainable way,” said Dr. Feilmeier.

Ten important considerations. According to Drs. Feilmeier, Lauar, and Sun, these are the top 10 things that every physician should know or do before engaging in a mission:

1. Think about not only where you want to go and your goals but also where you will have the greatest impact.
2. Go to a country that welcomes you—not just somewhere you want to visit.
3. During your first few trips, go with someone who is experienced with the particular site you’re visiting.
4. Study and respect local customs.
5. Focus on the sustainability of your service and work toward the long-term improvement of eye care delivery.
6. Make sure that all of your credentialing is up to date. Depending on your destination, you might need to apply for a temporary medical license.
7. Make sure that your malpractice insurance is up to date and will cover you while serving abroad.
8. Interpreters are provided in most locations, but it is helpful to learn the words used during a basic eye exam.
9. Go to a travel clinic and get the appropriate immunization(s).
10. Take advantage of Academy resources. Go to the Global Ophthalmology (GO) Guide at aao.org/goguide and scroll down to “Education” for 3 online CME courses from the Johns Hopkins Bloomberg School of Public Health. The Academy is also developing an EyeCare Volunteer Registry; if you’re interested in volunteering or if you work with an organization that offers volunteer opportunities, email intoutreach@aao.org.

A Creative Partnership
Spanning 5 islands and 2 coral atolls, and serving as home to approximately 55,000 people, American Samoa had only 1 ophthalmologist—and he was slated to retire. Without assistance, the population of this U.S. territory in the middle of the South Pacific would potentially be left without eye care.

“David J. Wilson, our chairman, thought that training someone to serve that community would be an important contribution to global health,” said Dr. Lauar. A reciprocal arrangement was established between OHSU and the Lynden B. Johnson Tropical Medical Center at Pago Pago, the capital of American Samoa.

The premise behind the initiative was to enable individuals to visit our program and learn from our team, and for our team to learn from other medical communities,” he said. As part of this program, Benjamin Siatu’u, MD, went to Oregon for some intensive training in ophthalmology. Now back in Samoa, he is working with Casey Eye Institute to finish building up the other critical elements of a regional eye care program (for more information, go to www.ohsu.edu and search for “Vision in American Samoa”).
Both SLT and ABiC™ work to control IOP by a process of restoration of the natural outflow pathways. This is in contrast to traditional glaucoma surgeries and other MIGS procedures, which attempt to mechanically change or bypass the pathway of aqueous outflow.

SLT stimulates a process of cellular regeneration to create a healthier, more porous TM structure. On average, SLT achieves a 30% reduction in IOP when used as a first-line therapy.

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VISIT ELLEX AT THE 2016 ANNUAL MEETING OF THE AAO, EXHIBIT #2731

When you hear the call, time is of the essence. Make sure you’re armed with information and prepare yourself for in-flight medical emergencies.

Thousands of physicians will be flying home at the conclusion of AAO 2016. And thousands of times every year, attendants on U.S. airliners call on their physician passengers for help with a medical emergency.

“When the frequency of at least 1 medical emergency in every 600 flights, the bottom line is: It’s likely to happen to you, if you fly enough,” said William J. Brady, MD, a Charlottesville, Va., emergency physician who coauthored a review of in-flight emergencies published in the New England Journal of Medicine. Of course, ophthalmologists are unlikely to encounter an eye care emergency at 30,000 feet—“I’m still waiting for the time I can run to the rescue for a patient with contact lens overwear, but that just doesn’t happen,” Preston H. Blomquist, MD, said with a laugh. But they may be called upon to handle other medical situations—and physicians who have provided medical assistance aboard airplanes stress the importance of preparing in advance to help the plane’s crew cope with these medical emergencies.

Priority 1: Life Support

A 2013 study reported that cardiac arrests are very rare (accounting for 0.3% of medical emergencies on U.S. commercial airliners), but they were responsible for 86% of the in-flight medical emergencies that resulted in death.1 Consequently, knowing how to use an automated external defibrillator (AED) is crucial, Dr. Brady said. “I would recommend that ophthalmologists become comfortable with the AED, which is very easy to operate and can be lifesaving when used appropriately in the early phases of cardiac arrest.”

Neuro-ophthalmologist Lynn K. Gordon, MD, PhD, learned this 3 years ago, when she and her husband, pathologist Jonathan Braun, MD, PhD, were flying to Texas. “A man on our plane collapsed in the aisle right next to us. At first he was able to talk, but within seconds his breathing stopped and his pulse ceased,” recalled Dr. Gordon, at the University of California, Los Angeles. Aided by a medical resident and a medical student who also were on board, they started CPR and readied the plane’s AED. “We had to use the AED to shock him multiple times. The plane made an emergency landing while we were all on the floor with him, and he survived,” she said.

Dr. Gordon credits her quick, automatic reaction in this cardiac crisis to her certification in basic life support, which she keeps current as a condition of practicing part time at the Los Angeles VA hospital. “This experience taught me that you need to maintain your certification, so you’ll be on autopilot when an emergency happens,” she said. “Sure, we ophthalmologists have been through medical school, and we all know the basics. But you have to keep up your skill level, and I think everybody has an obligation to do this.”

Ethical and Legal Issues

A duty to volunteer? Ophthalmic physicians have an ethical obligation to assist with medical emergencies that arise in flight, said Charles M. Zacks, MD, who practices in Portland, Maine, and is a past chairman of the Academy Ethics Committee.

“We’ve all taken an oath to help where we can,” he said. Ophthalmologists shouldn’t fail to respond to the call. Even if you aren’t fully knowledgeable about the passenger’s condition, he said, “almost any reasonable intervention is better than nothing at all.”

One does not need to be an emergency specialist to help these patients, Dr. Brady emphasized. “In my opinion, the ability of the doctor to be at the patient’s side and assist simply by being there and talking to them can provide a fair amount of comfort and aid.”

Protection from liability. The U.S. Aviation Medical Assistance Act of 1998 broadly protects providers of emergency care on airplanes from liability if a patient is harmed by the lack of appropriate medical equipment or by the refusal of the pilot to divert the plane. Dr. Zacks said he has had no hesitation in the past when flight attendants asked for help with a medical emergency. “If an ophthalmologist is called on to respond in an emergency, and they don’t do so out of some concern for liability—that’s not a well-founded fear.”

The “gross negligence” exception. However, the act does not protect providers of emergency care from liability for their own “gross negligence,” Dr. Brady said. For instance, a physician who has been drinking alcohol during the trip might need to think twice before volunteering to help, he said. “That is one of the situations in which a provider can get him- or herself into a certain degree of trouble.”

Tools for Airborne Crises

The tool between your ears. The best resource in a medical emergency is the doctor’s brain, said Dr. Brady. “That’s the most important diagnostic tool that you have—in terms of looking at your patient, talking to your patient, examining your patient, and trying to come up with what you think is the problem that has to be addressed.”

Know your medical kit. Commercial passenger planes in the United States are required by law to carry medical kits containing at least 1 AED, basic first-aid and resuscitation supplies, and a limited number of medications. “It’s a very austere environment in terms of what you can do diagnostically and what you can do therapeutically,” Dr. Brady said. (See “Emergency Medical Kits” on page 16.)

In addition to being familiar with using an AED, said Dr. Blomquist, it’s helpful for traveling ophthalmologists to know in advance what they can expect to encounter.

Steps for In-Flight Medical Emergencies

Dr. Brady and his coauthors recommend that medical providers who respond to in-flight medical emergencies take the following steps:

• Introduce themselves and state their medical qualifications
• Ask the passenger for permission to treat, if feasible
• Request access to the medical kit or automated external defibrillator, as needed
• Use a language interpreter, if necessary, but be aware of patient privacy
• Take a patient history, perform a focused physical examination, and obtain vital signs
• Administer treatments within the scope of their qualifications, with the patient remaining seated, when possible
• Recommend diversion of the flight if the patient’s medical condition is critical
• Communicate and coordinate with ground-based medical resources
• Continue to provide care until the emergency medical condition is stabilized or care is transferred to other qualified medical personnel
• Document the patient encounter


A VERSION OF THIS ARTICLE, BY LINDA ROACH, WAS ORIGINALLY PUBLISHED IN THE JANUARY 2016 EYENET.

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the medical kit to contain—something he admits to not knowing until his first experience with an emergency on a flight to London. In that instance, a man was feeling faint after combining blood pressure medication with alcohol. “It was only afterward that I found out they had a complete medical kit on board the plane. It would have been nice to have a sphygmomanometer and a stethoscope, which the crew didn’t offer to me. Now I know to ask for them,” said Dr. Blomquist, at the University of Texas Southwestern Medical Center in Dallas.

The treatment device that he and Dr. Brady would most like to see added to the medical kit is an epinephrine autoinjector to treat severe multisystem allergic reactions and anaphylaxis. Federal legislation to require this is under consideration, Dr. Brady said. 

**Electronic assistance.** Because he has been asked to help with in-flight emergencies on several trips, Dr. Blomquist said that he has downloaded electronic versions of medical references to his smartphone. “I travel with several iPhone apps beyond just the Wills Eye Manual. I have several free apps, including the Merck Manual, Epocrates, Outlines in Clinical Medicine, the Physician’s Desk Reference, drug interaction tables, and a nice little app from Memorial Sloan Kettering called About Herbs, so you can also know about the interactions with herbal medications that a patient may be on,” he said. And he recently added a PDF copy of Dr. Brady’s review paper to this collection of smartphone references.

**Ground-based assistance.** Typically, a flight attendant relays information about the patient’s condition to the plane’s pilot, who in turn might radio for advice from a ground-based medical consultant, Dr. Brady said. The consultant also can give treatment advice to the volunteer physician, if requested, and guide the decision whether to divert the airplane, and can organize the medical response on the ground.

**Diversion to a nearby airport.** In the most critical emergencies, the pilot may ask the volunteer physician for a recommendation about diverting the plane to the nearest airport, to allow hospital treatment. However, the final decision about diversion belongs to the pilot.

### Treatment Options

**Cardiac-related symptoms.** More than half of the patients who require medical assistance during a flight are suffering from cardiac symptoms (8%), respiratory symptoms (12%), or syncope/presyncope (37%), Dr. Brady reported in his NEJM article.1 Aspirin or nitroglycerin pills in the medical kit might be an appropriate intervention for some patients, but they should be used cautiously, the review warned. In cases of syncpe or presyncope, laying the patient down in the aisle with feet elevated might be sufficient, but persistent hypotension might require intravenous fluids (from the medical kit).

**Other emergencies.** Less commonly, aircraft passengers require assistance due to seizures and postictal states (5.8%), psychiatric issues (3.5%), stroke (2%), and complications from diabetes (1.6%). Dr. Brady and his colleagues wrote.

**Minimal medical kits.** Onboard treatment options are limited. For instance, the dextrose that is supplied in the medical kit can be used to treat hypoglycemia, but only empirically—because the kits do not contain a glucometer. And in psychiatric cases in which the passenger cannot be calmed, improvised restraints might be required to prevent physical injuries, because the medical kit contains no sedatives. Continued page 16

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**PUT TO THE TEST**

**Members Called to Duty**

**Thomas A. Weingeist, MD, PhD**

I have been on a number of flights where the crew has asked for medical assistance. I usually wait to respond, but then offer assistance. The last time I came to help, an ICU nurse was already talking with the patient and I—partly joking and partly seriously—told her that she could probably handle this better than I. We both took over care of the patient and gave him oxygen. Because our patient was not in need of cardiac or respiratory assistance, we told the flight attendants we would watch him for the next hour of our flight but that they should advise the pilots to have EMTs available at the gate when we arrived at the Sea-Tac airport.

Everyone remained calm and seated until the patient was taken off the plane. Nothing heroic was needed except to keep people calm. The airlines and passengers were happy to avoid the cost and inconvenience of an emergency landing.

I know ophthalmologists who carry small bags with instruments and have come to the aid of patients on trans-Atlantic flights. Don’t expect thanks from the airline, though—they didn’t receive any. (Though I do still treasure the look on the flight attendant’s face after our initial conversation. When I stood up to help, she asked me if I was a real doctor. I couldn’t help myself and said, “No, but I play one on TV,” as I handed her my emeritus professor business card from the University of Iowa.) We are, after all, Eye M.D.s.

**Philip Lempert, MD**

Several years ago, I was on a flight reading a JAMA report on artificial mitral valve fractures when a flight attendant came running down the aisle calling for a doctor. A disheveled young man, deeply cyanotic, was lying face down on the floor in front of the bathroom. An ER nurse and I knelt and were moving him onto his back when a woman ran up behind us. In a loud voice, she said, “I’m his wife, and before you get started you should know that he’s a lawyer and hates doctors.”

My assumption was that she was distraught when the large irregular scar on the center of his chest became visible. The thought that he had a cracked mitral valve flashed through my mind. We had started CPR and he was less cyanotic and was sputtering.

“Do you have an artificial heart valve?” I asked.

“No,” he said forcefully.

“What is the scar on your chest from?”

“Oh, that. The doctor didn’t know what he was doing!”

“What do you mean?”

By this time, our patient was more animated, and the other passengers were staring at us.

“I was skating on a pond when I was a boy and fell through the ice. It took 20 minutes to get me out, and by the time I got to a hospital there was no pulse or blood pressure. The first doctor who saw me did everything wrong.”

“What did he do wrong?”

“He opened my chest and massaged my heart. He could have done closed chest massage!” he hissed emphatically through his clenched teeth.

By this time the nurse and I were edging away and considering which false names we would give him. It turned out that he had an upper respiratory infection. The combination of that cold, with reduced oxygen level in the plane’s cabin, and urinating caused postural hypotension and his collapse.

The lessons that might be derived from this experience are the following:

- The idea of privacy while kneeling over a patient in the aisle of a plane with dozens of people trying to see what you are doing is a nice, but entirely unrealistic, goal.
- Don’t expect gratitude, or even appreciation, from the patient. The grateful individual is usually the flight crew and the people who will not be delayed by a medical emergency landing.

Despite this, we, as physicians, have a moral obligation to assist to the best of our abilities.

**David K. Emmel, MD**

Thirty years ago, I was flying out of LAX on the red-eye and was delayed 2 hours before boarding and 2 hours on the tarmac waiting for clearance. Shortly after takeoff and a quick meal—they served them in those days—I was thinking only about sleep when I heard the announcement “Is there a doctor on the plane?” It was a 747, and, yes, I was the only physician or health care provider on board.

I was led to the back of the plane by a very frightened flight attendant to find a nicely dressed middle-aged man, rigid and straight as a board, wedged in his seat in the very last row. It is hard to recall my precise thought process 30 years later, but it is not hard to remember that I was pretty terrified. The gentleman could not speak, but there was a briefcase under his feet, and inside I found a vial of insulin and syringes. He must have administered insulin in the airport anticipating a meal shortly after boarding. There were no medical kits on planes in those days; no stethoscopes or blood pressure cuffs, let alone defibrillators; and certainly no dextrose solution. Oral hydration was out of the question, so my treatment options were limited to recommend the patient to an ER in St. Louis.

I was skating on a pond when I was a boy and fell through the ice. It took 20 minutes to get me out, and by the time I got to a hospital there was no pulse or blood pressure. The first doctor who saw me did everything wrong.”

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- Don’t expect gratitude, or even appreciation, from the patient. The grateful individual is usually the flight crew and the people who will not be delayed by a medical emergency landing.

Despite this, we, as physicians, have a moral obligation to assist to the best of our abilities.
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A one-size-fits-many treatment: oxygen. Supplemental oxygen is available on airplanes, and it can be used empirically to ease symptoms for patients with a variety of conditions, Dr. Brady and his coauthors wrote. These include cardiac-related symptoms, syncope, stroke, dyspnea, and other conditions that cause respiratory compromise.

CPR: A-B-C to C-A-B
In 2010, the American Heart Association (AHA) changed its CPR recommendations from A-B-C (airway-breathing-compressions) to C-A-B, and the 2015 AHA Guidelines Update upheld this change.

The rationale. In the Highlights of the 2010 American Heart Association Guidelines for CPR and ECC, the AHA states, "The vast majority of cardiac arrests occur in adults, and the highest survival rates from cardiac arrest are reported among patients of all ages who have a witnessed arrest and an initial rhythm of ventricular fibrillation (VF) or pulseless ventricular tachycardia (VT). In these patients, the critical initial elements of BLS [basic life support] are chest compressions and early defibrillation. In the A-B-C sequence, chest compressions are often delayed while the responder opens the airway to give mouth-to-mouth breaths, retrieves a barrier device, or gathers and assembles ventilation equipment. By changing the sequence to C-A-B, chest compressions will be initiated sooner and the delay in ventilation should be minimal (i.e., only the time required to deliver the first cycle of 30 chest compressions, or approximately 18 seconds; when 2 rescuers are present for resuscitation of the infant or child, the delay will be even shorter). Most victims of out-of-hospital cardiac arrest do not receive any bystander CPR. There are probably many reasons for this, but one impediment may be the A-B-C sequence, which starts with the procedures that rescuers find most difficult, namely, opening the airway and delivering breaths. Starting with chest compressions might encourage more rescuers to begin CPR."

Although data are lacking as to whether this change increases the chances of survival compared to A-B-C, evidence does show that the revised C-A-B approach results in reducing the window of time to the first chest compression.

"Doctors on Board" Programs
Some airlines reward doctors for volunteering their services with special discounts. Lufthansa, for example, provides the following items if you sign up to be a "Doctor on Board":

- A "Doctor on Board" luggage label.
- A one-time promotion code worth 50 euros toward the physician’s next flight on Lufthansa.
- Special promotions and discounts.
- The opportunity to attend a course offered by Lufthansa’s Medical Service in cooperation with the German Academy for Aviation Medicine. The course does offer CME credit, but there is a fee to attend.

Be sure to check with your preferred airline to see if they offer a similar program.


Emergency Medical Kits

The FAA, which stipulates the medical supplies that airlines must have on board, last updated its regulations in 2001 to mandate that the majority of U.S.-registered commercial aircraft carry AEDs, which may be used to shock the heart back into a normal rhythm, and that some additional medications and equipment be added to the medical kits.

The required medications include: a non-narcotic pain killer; IV fluids for dehydration or low blood pressure; an antiarrhythmic to treat arrhythmic reactions; an inhaler for asthma; aspirin and nitroglycerin for a heart attack; IV dextrose for low blood sugar; epinephrine for allergic reactions or asthma; and epinephrine, atropine, and lidocaine as an adjunct to CPR. The kits must also contain a stethoscope and a manual blood pressure cuff as well as some other supplies. Other items may be available as well, depending on the airline.


Case Study in Medical Kits: Southwest Airlines

In addition to a first aid kit, Southwest carries a variety of kits to serve many different kinds of emergencies.

Fast response kit. This contains tools and supplies needed to prepare a victim for AED pad application and personal protection:
- 2 pairs high-risk gloves
- 1 CPR mask
- 1 razor
- 1 towel
- 1 pair medical grade scissors

Emergency medical kit. For use by medical personnel including MDs, DOs, DDSs, EMTs, PAs, nurses, and paramedics.

Sealed compartment contents:
- IV equipment, yellow bag
- Syringes (5 sizes)
- Needles (6 in 3 sizes)
- IV tubing
- IV catheters
- Saline solution
- Sharps shuttle
- 1-in. tape
- Tourniquet
- Trauma shears (blunt-tipped)

Airway, blue bag
- Oropharyngeal airways
- CPR masks (3 sizes)
- Manual resuscitation device with oxygen tubing

Medications, orange bag
- 50% dextrose injection (50 cc)
- Epinephrine (2 in 2 concentrations)
- Acetaminophen tablets
- Diphenhydramine tablets
- Diphenhydramine injectable
- Nitroglycerin tablets
- Lidocaine injectable
- Albuterol inhaler
- Aspirin tablets
- Atropine
- High-risk gloves (pair)

Unsealed compartment contents:
- Blood pressure cuff (sphygmomanometer), stethoscope, and antiseptic wipes.
- Cabin clean-up bag. This zippered, red canvas bag contains the following:
  - 4 personal protective equipment kits (see details below)
  - 4 syringe tubes (see details below)
  - 1 shaker of absorbent powder
  - 1 WN-1104 Bloodborne Pathogen Incident/Exposure Quick Reference Guide
  - 5 WN-1202 Southwest Airlines Bloodborne Pathogen Possible Exposure/Exposure Incident Investigation Forms
  - 5 WN-1203 Hepatitis B Virus (HBV) Vaccination Acceptance/Declaration Statement Forms
  - 2 restraints and removal tool in a sealed orange pouch
  - Personal protective equipment kits. These should be used whenever the potential for splash or spraying of blood and/or bodily fluids exists.
  - 1 gown 49 x 80 in.
  - 2 pair high-risk gloves, small and large
  - 1 eye shield/mask with ear loops
  - 4 absorbent pads to wipe up spills
  - 2 spill cover pads to cover large spills
  - 4 antimicrobial hand wipes
  - 1 red biohazard waste disposal bag with tie
  - 1 instruction sheet for using items in kit

Biohazard clean-up kit. Use this kit to clean up after any incident involving bodily fluids. It contains the following:
- 2 pairs high-risk gloves, small and large
- 1 eye shield/mask with ear loops
- 1 bag absorbent powder
- 1 disposable waste scoop
- 1 surface-disinfectant wipe
- 4 antimicrobial hand wipes
- 1 Sani-Cloth (germicidal wipe)
- 4 absorbent pads
- 1 red biohazard waste disposal bag with tie
- 1 brown waste bag with tie
Have you ever wondered whether your advocacy can really make a difference? Surveys show that, in fact, constituents who personally communicate with their lawmakers are more influential than lobbyists and news editors. Below, your colleagues discuss their experiences and share tips for delivering a pro-ophthalmology message that resonates with legislators and helps create the changes you want to see. Pamela S. Chavis, MD, is a retired neuro-ophthalmologist based in Charleston, S.C., and David M. Lehmann, MD, practices at Ophthalmic Surgeons and Consultants of Ohio at The Eye Center in Columbus, Ohio.

Q. Have you always been interested in advocacy and politics?

Dr. Chavis: No, not at all—there was never anything related to ophthalmology.

Dr. Lehmann: I have always been interested in politics. I’ve always enjoyed discussing issues with family and friends, and I’ve worked on political campaigns in the past. It seemed natural to be involved in the discussions about issues related to ophthalmology.

Q. What prompted you to get involved in advocacy on behalf of ophthalmology?

Dr. Chavis: In Virginia in 2004, an optometry bill expanding optometric scope of practice (HB 856) came into the Virginia Senate after being approved by the House. It appeared to have been funded between one accounting cycle and the next and appeared suddenly. The bill was put into the Senate subcommittee on health accordingly.

Dr. Lehmann: I had not been active in a structured way on behalf of ophthalmology. I saw the promotions for Congressional Advocacy Day several years ago and it sounded interesting—a way to talk to the decision-makers involved in the legislation affecting our practices.

Q. What have your experiences been like (good and bad) thus far?

Dr. Chavis: On Feb. 19, 2004, I was the designated speaker representing VSEP$ and the Medical Society of Virginia at the State of Virginia Senate Subcommittee on Health hearing on the optometry bill that I mentioned. Through this experience, I learned that the political process can work through the personal encounter as well as through formal channels. It was worth every effort to accomplish this. The optometry advocates were informed not to come back for a long time.

Dr. Lehmann: My experiences have been uniformly good, and I’m not just saying that. Our representatives seem genuinely interested in what we have to say. They seem to like talking to physicians, as we are a respected profession. You can tell they have a personal stake in our issues. Everybody has his or her own doctor, and everybody has family members who need care.

Q. What is your philosophy regarding political fundraising and advocacy, and how has it evolved over the years?

Dr. Chavis: Initially, it felt awkward to do political fundraising, but it is a political reality. Being involved in advocacy is a no-brainer—which, as a neuro-ophthalmologist, I say carefully!

Dr. Lehmann: The representatives I’ve met get into politics and sought elective office because they were genuinely interested in improving things in the country. They really do want to do the right thing. I feel strongly about communicating with our legislators. I think it’s very important to understand that what we are really doing is being advocates for our patients—who are the same people our legislators serve. We are all on the same team. I think all individuals have to decide for themselves about fundraising. It’s a political reality that lawmakers have to raise money to campaign. If you have a good representative whose vision you share, it seems a good idea to support his/her reelection.

Q. How would you address concerns that advocacy actions do not directly impact policy?

Dr. Chavis: Our experience in Virginia has been exactly the opposite, due perhaps to our great leadership and mobilization—we were a team.

Dr. Lehmann: If by “direct,” you mean the decision-makers involved in the legislation affecting our practices, it seems a good idea to support your colleagues on how to establish a relationship with their legislators and their legislators’ staff?

Dr. Chavis: It is a great personal experience to get to know our representatives. They can be exceptional.

Dr. Lehmann: I try to keep in mind the following:

• Be patient.
• Be prepared. If aides need specific information you don’t have, find it for them.
• Be appreciative. If the representative has been supportive on an issue, recognize it and thank them.
• Be active locally. Once you leave D.C., who trust that they will get great care. There is a well-used expression that “all politics are local”—well, really, all politics have a personal side. It was the informed relationship that we built that carried the day, and it has made me realize that we have to continue this endeavor. The profession that we love depends upon this effort on our part, and the patients that we love deserve the effort.

Dr. Lehmann: It sounds glib to say, “You don’t have time not to,” but it’s true. There are concerned legislators and talented, knowledgeable legislative aides interested in doing what they feel will help the country and their constituents. They need all the information on an issue to make decisions. We can provide that information so they make the best decisions for our patients.

Q. Do you have any tips for your colleagues on how to establish a relationship with their legislators and their legislators’ staff?

Dr. Chavis: It is a great personal experience to get to know our representatives. They can be exceptional.

Dr. Lehmann: I try to keep in mind the following:

• Be patient.
• Be prepared. If aides need specific information you don’t have, find it for them.
• Be appreciative. If the representative has been supportive on an issue, recognize it and thank them.
• Be active locally. Once you leave D.C.,
communication doesn’t stop. They are, after all, your local representatives. Stay in touch and participate in functions throughout the year.

• Be nice. Talk about the issues, but also talk a little about the common things you share. In general, these are good people who are doing their best. They make a lot of sacrifices, missing time with their families and sacrificing financially as well. Sometimes they won’t agree with you, but that’s OK. Continue to work with them in a constructive fashion to convey your points, even if that happens next month or next year.

EVENTS AND RESOURCES AT AAO 2016
Visit the Advocacy desk at the Academy Resource Center (Booth 508) to learn more about the Academy’s advocacy efforts, send a letter to Congress, and find out how the Surgical Scope Fund works for you. In addition, the OphthalmPAC fund-raising booth (Grand Concourse, Level 3) will have a Pin Your Politics game. For a $10 OphthalmPAC investment, you get one try at pinning the tail on the donkey or the trunk on the elephant for the chance to win a $250 Visa gift card. Also, be sure to attend the following sessions for insight on how to get involved.

Fall Council Meeting (Spe14). Members of the Academy Council (an advisory body to the Board of Trustees) and leaders of ophthalmic state, subspecialty, and specialized interest societies will discuss the latest advocacy news and provide take-home messages and action items during this Council of Advocates session. Members can attend as guests. When: Sunday, 11:30 a.m.-5:00 p.m. Where: Fairmont Chicago, Imperial Ballroom. Access: Register at aao.org/council.

Q&A with FDA—CDRH (Spe16). Have questions about the device approval process? Want to talk about new FDA initiatives? Need answers about the latest news affecting ophthalmic products? Submit your questions to the Academy, and FDA experts will give you the information you need to know! When: Sunday, 12:45-1:45 p.m. Where: Room N427a. Access: Free.

Resident Training Programs in VA and DOD: Issue and Challenges for the Future (Spe22). Representatives from the Association of Veterans Affairs Ophthalmologists and the Society of Military Ophthalmologists will discuss issues and challenges facing VA and DOD residency training programs. Discussion topics will include trauma training, expansion of residency positions to improve access to care, and possible opportunities for collaboration between the VA and the DOD. When: Monday, 12:45-1:45 p.m. Where: Room N427a. Access: Free.

Attend the MYF in 2017 Mid-Year Forum (MYF) is one of the Academy’s most significant yearly meetings, bringing the ophthalmology community together to drive change and shape our profession’s future. Join your colleagues April 26–29, 2017, in Washington, D.C., to learn about changes that impact how you practice and develop strategies for implementing new programs into your patient-care approach.

Congressional Advocacy Day (CAD). Our success as a profession depends on smart legislation. Attend CAD (free to members) on April 27 to help educate Congress about fair Medicare physician payment, regulatory burden reduction, and other policies that affect the way we deliver care. Learn more at aao.org/myf.

Your Impact: What the Data Show
The Congressional Management Foundation polled congressional staff on which advocacy strategies are most effective in swaying a federal legislator’s decisions. The survey found the following:

• Your efforts stimulate action: 94% of staffers said that constituent visits to the lawmaker’s district office have some or a lot of influence on an undecided member of Congress—more than any other influence group or strategy.

• Representing your patients turns heads: 96% said that lawmakers pay attention when a constituent who represents other constituents comes to the table.

• It can be as easy as an email or a social media post: 57% said that email and the Internet have made senators and representatives more accountable to their constituents, and 64% think that Facebook is an important way to understand constituents’ views.


MEET YOUR LAWMAKERS. Austin Phara, MD (left), and Sen. William Morgan “Bill” Cassidy, MD (R-La.).
History of Ophthalmology in the Asia-Pacific

From ancient texts to ophthalmoscopes to couching procedures, the Museum of Vision’s booth contains 8 display cases of artifacts from all over the Asia-Pacific region.

Visit the Museum of Vision at Booth 704 to see “History of Ophthalmology in the Asia-Pacific,” an exhibit about the ancient roots of ophthalmology found in Asia. Because AAO 2016 is held in conjunction with the Asia-Pacific Academy of Ophthalmology, the museum is taking this opportunity to celebrate this unique ophthalmic heritage largely unknown in the West. The exhibit features 8 display cases containing a total of 37 items from India, Japan, China, Sri Lanka, and the Philippines, including the 3 that are highlighted below.

Check out Monday’s history symposium. Learn more about the fascinating history of ophthalmology in the Asia-Pacific region at “Giants in Asia-Pacific Ophthalmology” (Sym34). Speakers from Australia, China, Japan, and South Korea will discuss ancient practitioners, early modern legends, great discoveries, and innovations. When: Monday, 12:15-1:45 p.m. Where: Grand Ballroom S100c. Access: Free.

**Fushiken Shenshi Yahan (Fushiken’s Precious Book of Ophthalmology)**

A 17th century depiction of the theories of ophthalmology, this encyclopedic account by Fu Renyu, about whom little is known, contains almost 70,000 characters and was the main reference work in the field from the time it was published in 1644 until well into the 18th century—and it is still in print. The 3 volumes were compiled and edited by Fu’s son, Fu Guodong, and his son-in-law, Zhang Wenkai. The books include detailed case studies, practical drawings for 108 eye diseases, and more than 300 prescriptions. Fu begins by describing and illustrating the eye and its components, then depicts several surgical procedures, such as the removal of cataracts.

The book also includes sections on acupuncture (including the elements of wood, fire, earth, metal, and water), moxibustion, catarractopsis (couching) with a golden needle, the 8 regions of the whites of the eyes, the theory of 5 orbiculi, and the relationship between the eyes and Zang-Fu channels and collaterals. Fu also describes eyeointments and medicines that can be used externally.

**Netsuke**

In earlier centuries, Japanese men and women wore a traditional article of clothing called a kimono. Kimonos had no pockets, so the Japanese hung cases or purses called sagemono from their belts (known as obi). To secure the sagemono, small carved toggles, or netsuke, were used. Netsuke came in a large variety of shapes and materials, mostly ivory or wood. The 2 parts of the word—“ne” + “tsuke”—mean “root” and “to attach.” While these fasteners began as utilitarian and functional objects, they evolved over time to become artistic creations with remarkable craftsmanship, including elaborate carving and lacquer inlay depicting scenes from the 15th-century book Three Kingdoms, by Luo Guanzhong.

Did You Know?

- Sushruta Samhita, written by Maharshi Sushruta in 600 BCE India, includes the world’s first description of cataract surgery.
- The first medical school in China was established by the T’ang Dynasty in 624 CE.
- An archeological site in Sri Lanka dating to 800 CE holds the world’s oldest evidence of a hospital.
- The Majima School of Ophthalmology in Japan, founded in 1357, kept its teachings a secret, letting students copy only 1 scroll as a memory device.
Looking for a new OCT or scanning laser ophthalmoscope? Consider a DICOM-compliant model.

Electronic health record (EHR) and image management systems must receive data from digital imaging devices, such as OCT, corneal topographers, and fundus cameras. In the past, device vendors used proprietary formats for the exchange of this information. Now a single, common standard is becoming more important with the proliferation of imaging devices and the necessity of transferring imaging data to EHRs—not to mention to the correct patient record. A standard called Digital Imaging and Communications in Medicine (DICOM) allows for this exchange. Any practice that uses an EHR or image management system will want to be sure that future purchases of digital imaging equipment conform to the DICOM standard. (For more about EHRs, see “IRIS Registry–Compatible EHRs,” in the Friday Academy News.)

The table. The Academy contacted vendors of imaging devices and PACS (picture archiving and communication systems) that had completed their Virtual Exhibition company information by mid-June in order to conduct a survey of DICOM compliance for imaging devices. The results of this survey are reported below.

See how it works. Sponsored by the Academy with help from Carl Zeiss Meditec, The Electronic Office (Booth 121) shows how EHR and digital imaging systems can easily communicate and how

### Devices, PACS, and DICOM Compliance: What You Need to Know

#### COMPANY NAME

- **Canon**
- **Carl Zeiss Meditec**

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<tr>
<th>PRODUCT NAME AND VERSION</th>
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<th>COLLABORATOR C</th>
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they can exchange data and images. This data exchange helps with the consistent handling of patient identifiers across different systems, from patient registration to appointment scheduling and beyond.

DICOM automation of workflow can be used in different practice settings, regardless of whether you have an image management system or whether your EHR supports the standard. Be sure to stop by for a demo!

Ask vendors about patient privacy. When talking with vendors of imaging device and PACS products, be sure to ask about their policies for securing PHI (protected health information). Do they comply with HIPAA regulations? Priorities include system security, access control, auditing of user access, and use of data encryption when transmitting images over the Internet.

Visit the Virtual Exhibition. Find the most up-to-date list of exhibitors who have self-identified as “Digital Imaging,” “Imaging,” “Imaging Systems,” or “Image Management System (PACS)” at aao.org/virtualexhibition.

IHE Eye Care Connectathon and Showcase. The Academy thanks Marco, Carl Zeiss Meditec, and Topcon for their participation in the 2016 IHE Eye Care Connectathon.

DISCLAIMER: All information and claims are those of the vendors and have not been verified, nor does the appearance of the product constitute an endorsement of the company or product by the American Academy of Ophthalmology, EyeNet Magazine, or Academy News.

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**EXHIBIT IMAGING VENDORS**

**EYENET’S ACADEMY NEWS**

- Requires MarcoConnect software with DICOM option enabled.
- Data current as of June 17, 2016.

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**Note:**
- **Y** indicates availability.
- **N** indicates non-availability.
- **NR** indicates not reported.
- **P** indicates price availability.
- **NA** indicates not applicable.
From Academia to the Clinic
11 Eminent Speakers Preview Their Talks

W hat’s the buzz among neuro-opthalmologists? What makes the oculoplastics specialists tick? Whether you want a window into your colleagues’ subspecialties or quick updates in your own field, consider attending an honorary lecture. They are easy to fit into your schedule, as they are usually about 15 to 35 minutes long. Eleven of these lectures, as described by the distinguished lecturers themselves, are highlighted below, and 10 more were featured on pages 24 and 25 of the Friday Academy News.

SUNDAY, Oct. 16

MICROBIOLOGY
Jones/Smolin Lecture: Trachoma, From Control to Eradication, presented by Thomas M. Lietman, MD.
When: Sunday, 4:49-5:09 p.m., during Sym18, Rethinking the Ophthalmologist’s Approach to Infectious Diseases of the Ocular Surface.
Where: Room E450.

"Only a single human infectious disease, smallpox, has been eradicated by a public health program—we’re now on the verge of eradicating several. Two of these are eye diseases: trachoma and river blindness. Trachoma was once the world’s greatest cause of blindness, responsible for 75% of all blindness, but through discovery, and later, through interventions, we’re now on the verge of eradicating it. River blindness, another blinding disease, is still around in parts of Africa, such as Ethiopia."

Programmatic efforts have been geared just to control blinding trachoma, but scientific studies suggest that eradication is feasible."

Rethinking the Ophthalmologist’s Approach to Infectious Diseases of the Ocular Surface (3:45-5:14 p.m.) is cosponsored by the Ocular Microbiology and Immunology Group.

MEDICAL EDUCATION
Straatsma Lecture: Career Choices in Ophthalmology, presented by Steven J. Gedde, MD.
When: Sunday, 4:32-4:52 p.m., during Sym17, Mentoring Educational Leaders.
Where: E350.

"Several interesting trends have developed in ophthalmology. The proportion of graduating residents pursuing fellowship training has steadily increased. Differences in the level of compensation have emerged relating to subspecialty type. Geographic variation exists in the number of ophthalmologists per capita."

"Physicians-in-training are confronted with a series of choices that direct them down a specific career pathway. This lecture will explore factors influencing career decisions among ophthalmologists. Understanding trends in ophthalmology and determinants of career choices may prove useful in establishing workforce planning strategies to meet future eye care needs."

Mentoring Educational Leaders (3:45-5:15 p.m.) is cosponsored by the Association of University Professors of Ophthalmology.

MONDAY, Oct. 17

ORGANIZED MEDICINE
Parker Heath Lecture: Assessing Late Stage Physicians, the State of the Art, presented by Stephen R. Permut, MD, JD.
When: Monday, 9:19-9:44 a.m., during Sym23, The Evolving Regulatory, Clinical, and Legal Environment for Assessing Late Career and Senior Ophthalmologists.
Where: Grand Ballroom S100c.

"Given the population growth, particularly among high-risk groups, there is a global increase in the burden of glaucoma. When coupled with stagnant numbers of caregivers, this issue is amplified. These factors have challenged traditional care models for both those at risk and those afflicted. Potential solutions include risk-targeted screening, telemedicine, and other novel delivery approaches, as well as preventive medicine strategies. As traditional approaches have fallen short of addressing the current challenges, the ophthalmic community must develop new solutions. By proposing and testing new diagnostic and therapeutic models, we can collectively provide better care for our patients."

The Virtual and Mobile Glaucoma Office (8:30-10:00 a.m.) is cosponsored by Present Blinded America.

PROFESSIONALISM AND ETHICS
Dr. Allan Jensen & Claire Jensen Lecture: Ophthalmology Took a Stand, presented by Alfred Sommer, MD, MHS.
When: Monday, 10:20-10:45 a.m., during Sym28, Dr. Allan Jensen & Claire Jensen Lecture in Professionalism and Ethics.
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• Academy Resource Center, Booth 508
• Grand Concourse
"The future of refractive and cataract surgery has been placed on a brief hold. Interesting concepts seem to come along but are too often swallowed up in the valley of regulation and cost. Why is this? And how can we make it easier for new technologies and concepts to emerge and be fruitful? Some hints of progress are emerging as government, private industry, and physicians recognize the problem and the need for collaboration to allow new technologies and concepts to grow and succeed. Several examples of new and exciting concepts will be examined in my lecture."

Spotlight on Cataract: Complicated Phaco Cases—My Top 5 Pearls (8:15 a.m.-12:15 p.m.)

NEW! UVEITIS AND IMMUNOLOGY

C. Stephen and Frances Foster Lecture: Immunosuppression for the Uveitides: Current Status and Future Directions, presented by Douglas A. Jabs, MD, MBA.

When: Monday, 12:50-5:15 p.m., during Sym33, C. Stephen and Frances Foster Lecture on Uveitis and Immunology.

Where: Room S406a.

“The uveitides are a collection of more than 30 diseases characterized by intraocular inflammation. Although a few diseases may have a good prognosis and not need treatment, the large majority, if untreated, have high rates of visual impairment and blindness. The more severe uveitides often are chronic diseases, requiring chronic suppressive therapy. Over the past 2 decades, a body of evidence has emerged, demonstrating that systemic immunosuppression can yield superior outcomes for the more severe uveitides and that, when used properly, these drugs can be administered safely. Biologic agents are emerging as an important addition to the therapeutic armamentarium for the uveitides.”

C. Stephen and Frances Foster Lecture on Uveitis and Immunology (12:45-1:45 p.m.)

REFRACTIVE SURGERY

Barraqueer Lecture: Keratoconus: Progressive Management of a Progressive Disease, presented by Alan M. E.Danasoury, MD.

When: Monday, 4:55-5:15 p.m., during Sym43, Therapeutic and Refractive Crosslinking.

Where: Grand Ballroom S403b.

“Only 2 decades ago, the treatment options for keratoconus were hard contact lenses and penetrating keratoplasty, with nothing in between. In the late 1990s, modern deep anterior lamellar keratoplasty and intracorneal ring segments presented surgeons with safer and more predictable procedures. Subsequently, the advent of corneal cross-linking preserved vision for thousands of patients, and modern phakic IOLs and customized ablation enabled surgeons to also address visual rehabilitation. Today, with the advances in diagnostics and availability of new, effective techniques, the questions are when is the best time to treat and whether a combined or staged treatment approach is better for a given patient.”

Therapeutic and Refractive Crosslinking (3:45-5:20 p.m.) is cosponsored by the International Society of Refractive Surgery.

TUESDAY, Oct. 18

PATHOLOGY/ONCOLOGY

Zimmerman Lecture: Changes in Diagnosis and Treatment of Orbital Tumors in 50 Years, presented by Zeynel A. Karcioğlu, MD.

When: Tuesday, 9:27-9:57 a.m., during Sym44, Advances and Update on the Diagnosis and Treatment of Tumors of the Eye and Ocular Adnexa.

Where: Room E450.

“The diagnosis and management of orbital and adnexal neoplasia continue to evolve, with advances in diagnostic imaging, molecular pathology, biopsy techniques, and new treatment models of chemotherapy, immunotherapy, surgery, and radiation. Some orbital and periorbital tumors have transformed their presentation and their clinical behavior because of the ongoing changes in the global environment and social and epidemiologic occurrences. The effective treatment of orbital tumors depends on accurate diagnosis and proper utilization of new therapeutic methods under ever-changing epigenetic influences. This Zimmerman Lecture offers an ephemeral window to the past developments in orbital tumors, outlines the baseline of our present practice, and forecasts developments in this field over the next decade or so.”

Advances and Update on the Diagnosis and Treatment of Tumors of the Eye and Ocular Adnexa (8:30-10:00 a.m.) is cosponsored by the American Association of Ophthalmic Oncologists and Pathologists.

NEURO-OPHTHALMOLOGY

William F. Hoyt Lecture: Can a Unique Little Specialty Show Us Some Pervasive Issues With the Old and New Models of Health Care Delivery? presented by Larry P. Frohman, MD.

When: Tuesday, 9:34-9:59 a.m., during Sym47, Clinical Dilemmas in Neuro-ophthalmology: Who to Admit and Why?

Where: Room S406a.

“In contradiction to fundamental laws of supply and demand, 2 decades of payment policies have led to some medical specialties being both in short supply and undervalued. This paradox has resulted in increasingly long waits to see some specialties, the specialties become seemingly less attractive, and thus a dearth of new trainees enter the fields.”

“Evolving models of health care delivery hold the promise of increasing patient access to most types of health care providers and may diminish costs and improve outcomes for most patients’ conditions. However, patients who need care in understaffed fields may, in the future, be unable to locate a specialist with the requisite expertise in their problems. Preventing the sickest and most complex patients from seeing physicians with the most expertise might lead to increased cost and deleterious outcomes—outcomes contrary to the goals of health care reform.”

“We will examine the delivery of neuro-ophthalmic care in the United States and overseas to see if we can identify strategies to ensure that patients have access to such specialists in the future.”

Clinical Dilemmas in Neuro-ophthalmology: Who to Admit and Why? (8:30-10:00 a.m.) is cosponsored by the North American Neuro-ophthalmology Society.

ETHICS EVENTS

Get an hour of ethics CME by attending any of the following events.

**An Introduction to Error Disclosure for Ophthalmologists**

When: Sunday, 11:30 a.m.-12:30 p.m. Where: S403b. Access: Academy Plus course pass.

The didactic section of this course discusses current trends toward mandatory error disclosure and summarizes the experiences of providers who have adopted a disclosure culture. Attendees will watch a video of a sample disclosure conversation and then break into small groups for case presentations.

**Expert Witness Survival Skills: Tips and Tools From Ethics Committee Case Reviews**

When: Monday, 9:00-10:00 a.m. Where: SI02d. Access: Academy Plus course pass.

This course presents practical concepts such as basing testimony on sound scientific principles, avoiding bias, maintaining objectivity, understanding the standard of care, causal relationships, and the distinction between negligence and malpractice, among others.

**The Code of Ethics: A Shield in Litigation**

When: Monday, 4:30-5:30 p.m. Where: SI03a. Access: Academy Plus course pass.

Using a hypothetical malpractice litigation scenario, this course highlights several components of ethical practice: adequate informed consent, appropriate perioperative care, and compliant advertising practices. The dramatization demonstrates that compliance with the Academy’s Code of Ethics not only benefits your patients and practice but could also prove advantageous or even decisive in your defense against allegations of medical negligence. Ophthalmic Mutual Insurance Company (OMIC) policyholders who attend are eligible for a risk management premium discount. This session is cosponsored by OMIC.
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Four randomized, double-masked, 12-week trials evaluated the efficacy and safety of Xiidra versus vehicle as assessed by improvement in the signs (measured by Inferior Corneal Staining Score) and/or symptoms (measured by Eye Dryness Score) of Dry Eye Disease (N=2133).

The safety of lifitegrast was evaluated in 5 clinical studies. 1401 patients received at least one dose of lifitegrast (1287 of which received Xiidra). The most common adverse reactions (5-25%) were instillation site irritation, dysgeusia, and reduced visual acuity.
Indication
Xiidra™ (lifitegrast ophthalmic solution) 5% is indicated for the treatment of signs and symptoms of dry eye disease (DED).

Important Safety Information
In clinical trials, the most common adverse reactions reported in 5-25% of patients were instillation site irritation, dysgeusia and reduced visual acuity. Other adverse reactions reported in 1% to 5% of the patients were blurred vision, conjunctival hyperemia, eye irritation, headache, increased lacrimation, eye discharge, eye discomfort, eye pruritus and sinusitis.

To avoid the potential for eye injury or contamination of the solution, patients should not touch the tip of the single-use container to their eye or to any surface.

Contact lenses should be removed prior to the administration of Xiidra and may be reinserted 15 minutes following administration.

Safety and efficacy in pediatric patients below the age of 17 years have not been established.

For additional safety information, see accompanying Brief Summary of Safety Information on the following page and Full Prescribing Information on Xiidra-ECP.com.
Animal studies have not been conducted in vitro. The applicability of animal findings to the risk of Xiidra use in humans during pregnancy is unclear. Intravenous administration of lifitegrast to pregnant rats, from pre-mating through gestation day 17, did not produce teratogenicity at clinically relevant systemic exposures. Intravenous administration of lifitegrast to pregnant rabbits during organogenesis produced an increased incidence of omphalocele at the lowest dose tested, 3 mg/kg/day (400-fold the human plasma exposure at the RHOD of Xiidra, based on AUC), when administered by IV injection daily from gestation days 7 through 19. A fetal No Observed Adverse Effect Level (NOAEL) was not identified in the rabbit.

Lactation
There are no data on the presence of lifitegrast in human milk, the effects on the breastfed infant, or the effects on milk production. However, systemic exposure to lifitegrast from ocular administration is low. The developmental and health benefits of breastfeeding should be considered, along with the mother's clinical need for Xiidra and any potential adverse effects on the breastfed child from Xiidra.

Pediatric Use
Safety and efficacy in pediatric patients below the age of 17 years have not been established.

Geriatric Use
No overall differences in safety or effectiveness have been observed between elderly and younger adult patients.

NONCLINICAL TOXICOLOGY
Carcinogenesis, Mutagenesis, Impairment of Fertility
Carcinogenesis: Animal studies have not been conducted to determine the carcinogenic potential of lifitegrast.

Mutagenesis: Lifitegrast was not mutagenic in the in vitro Ames assay. Lifitegrast was not clastogenic in the in vivo mouse micronucleus assay. In an in vitro chromosomal aberration assay using mammalian cells (Chinese hamster ovary cells), lifitegrast was positive at the highest concentration tested, without metabolic activation.

Impairment of fertility: Lifitegrast administered at intravenous (IV) doses of up to 30 mg/kg/day (5400-fold the human plasma exposure at the recommended human ophthalmic dose [RHOD] of lifitegrast ophthalmic solution, 5%) had no effect on fertility and reproductive performance in male and female treated rats.
EyeNet® Magazine helps you make the most of your learning time at AAO 2016 by bringing you free corporate educational program lunches* onsite at McCormick Place.

These conveniently located industry-developed lunches ensure that you maximize your education in Chicago during the break between sessions.

**Programs**

**Saturday, Oct. 15**  
**Diabetic Eye Disease: Clinical Challenges and Practical Tips for Multidisciplinary Disease Management**  
**Speakers:** Mandeep Brar, MD (endocrinologist), W. Lloyd Clark, MD, John W. Kitchens, MD  
*Supported by Regeneron Pharmaceuticals*

**Sunday, Oct. 16**  
**A Novel Therapy for DME Patients Requiring Persistent Treatment**  
**Speakers:** Nathan M. Radcliffe, MD, Christopher D. Riemann, MD, Veeral S. Sheth, MD, MBA, FACS  
*Supported by Alimera Sciences*

**Monday, Oct. 17**  
**Cataract Surgery: Life Is Beautiful When the Pupil Behaves**  
**Speakers:** Johnny L. Gayton, MD, Richard L. Lindstrom, MD, Robert H. Osher, MD, Keith A. Walter, MD, Robert J. Weinstock, MD, Elizabeth Yeu, MD  
*Supported by Omeros Corporation*

*These programs are non-CME and are developed independently by industry. They are not affiliated with the official program of AAO 2016 or Subspecialty Day. By attending a lunch, you may be subject to reporting under the Physician Payment Sunshine Act.*

**Room E353b, Lakeside**  
McCormick Place  
**Check-in and Lunch Pickup**  
12:15-12:30 p.m. Lunches are provided on a first-come basis.  
**Program**  
12:30-1:30 p.m.

Check [aao.org/eyenet/corporate-lunches](http://aao.org/eyenet/corporate-lunches) for updated program information.
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