

Connecticut Society of Eye Physicians

Annual Scientific Program
& Vendor Expo

June 10, 2016

8:00am - 5:00pm

Aqua Turf Club
Plantsville, CT



Eye M.D. Education Mission Statement:

We are committed to advancing the highest standards of eye care through continuing education activities. The CSEP Semi-annual Scientific Education Programs are dedicated to improving and protecting our patient's vision and eye health by presenting advances in the diagnosis and treatment of eye disease. Our target audience includes ophthalmologists and their staff, including office managers and technicians.

Activities range from didactic lectures to participatory activities, and whenever possible are approved for CME credit. We expect that our audience will incorporate best practices, as presented, into their daily practice. Specific competency, performance and patient outcome goals that will result from the program will be proposed by the presenters and evaluated by the participants.

The CSEP Annual Scientific Education Programs are an opportunity for ophthalmologists to identify and discuss critical issues facing their profession. These programs are designed to present recent advances in the diagnosis and treatment of eye disease, offering symposia, scientific papers and videos. The CSEP programs are designed to meet the clinical and educational needs of its members and the objectives set forth by the CSEP education committee.



Vincent deLuise, M.D.
CSEP Education Chair

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CSEP PHYSICIANS' AGENDA

Friday, June 10, 2016

The Aqua Turf Club, 556 Mulberry Street, Plantsville, CT

7:30 Registration & Continental Breakfast –
Vendor Expo

8:10 **Lessons Learned from Glaucoma Clinical Trials**

– *Steven Jon Gedde, MD*

Objectives: At the conclusion of this lecture, the participants should be able to: 1. Identify the clinical trials in glaucoma that have had the highest impact on clinical practice. 2. Describe the study designs of several multicenter randomized clinical trials in glaucoma. 3. Discuss the major findings of recent clinical trials in glaucoma. 4. Apply results of glaucoma clinical trials to patient care.

8:45 **I Wish I Hadn't Done That - Lessons Learned the Hard Way**

– *Edward George Buckley, MD*

Objectives: 1. Recognize clinical clues that may predict a bad outcome. 2. Design appropriate interventions for difficult problems that at first seem straightforward, but have clues that indicate otherwise.

9:15 **Subluxated Cataracts, Glued Capsular Hooks and Glued IOLs**

– *Soosan Jacob, MS, FRCS, DNB*

Objectives: 1. To formulate a decision making plan for subluxated cataracts. 2. Surgical techniques. 3. New techniques.

9:45 Coffee Break

10:20 **Corneal Transplants, Flaps, Lasers, Bubbles:
Recent Advances in Cornea & Refractive Surgery**
– *Natalie Afshari, MD*

Objectives: 1. To familiarize attendees with the recent advances in the field of corneal transplantation. 2. To become more familiar with endothelial keratoplasty and particularly in difficult and challenging situations.

10:50 **David W. Parke, Sr. Lecture - OCT Angiography
of Macular Diseases**
– *Phil Rosenfeld, MD*

Objectives: 1. To understand the benefits and limitations of OCT angiography compared with fluorescein and indo cyanine green angiography. 2. To appreciate the differences between spectral domain and swept source OCT angiography. 3. To gain an understanding of how different macular diseases affect the retinal and choroidal microvasculature using OCT angiography.

11:35 **Business Meeting and Awards**

12:15 **Lunch with Vendors in Wagon Room**

1:15 **Tube Shunts in the Surgical Management of
Glaucoma**

– *Steven Jon Gedde, MD*

Objectives: At the conclusion of this lecture, the participants should be able to: 1. Discuss the pathophysiology of tube shunts. 2. Identify common indications for tube shunt surgery. 3. Describe the steps involved in implantation of tube shunts. 4. Recognize surgical complications associated with tube shunts.

- 1:45 **OCT Angiography and Widefield Imaging for the Diagnosis & Management of Neovascular AMD**
– *Phil Rosenfeld, MD*
Objectives: 1. To appreciate the use of OCT angiography for the early detection of subclinical, non-exudative neovascularization in eyes diagnosed with dry, intermediate AMD. 2. To appreciate the advantages of using OCT angiography compared with routine structural OCT imaging alone for the management of neovascular AMD. 3. To demonstrate the advantages of widefield OCT imaging in the diagnosis of AMD.
- 2:15 **Disruptive Innovation - Predicting the Future of Ophthalmology**
– *Edward Buckley, MD*
Objectives: To describe future innovations and identify new positive outcomes from these new innovations.
- 2:45 **Challenging Cases in Cataract Surgery: What Would You Do? - Challenging scenarios in cataract surgery IOL calculations will be presented**
– *Natalie Afshari, MD*
Objectives: 1. The Attendees will become more familiar with cataract surgery in setting of corneal disease.
- 3:15 **Desserts and Coffees - Vendor Hall Scientific Poster Awards**
- 3:35 **Nutrition and the Aging Eye**
– *Elizabeth Johnson, Tufts University*
Objectives: 1. To identify the risk factors to age-related eye disease. 2. To identify the key nutrients involved in ocular health. 3. To understand the mechanisms by which key nutrients are involved in ocular health.

4:00 Stab Incision Glaucoma Surgery

– *Soosan Jacob, MS, FRCS, DNB*

Objectives: 1. To understand Stab Incision glaucoma Surgery. 2. Adopting the technique 3. Overcoming complications 4. Its advantages

4:35 CME Certificates and Door Prizes - Vendor Hall

The Connecticut Society of Eye Physicians designates this educational activity for a maximum of 5.75 AMA PRA Category I Credit(s)TM.

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.

Faculty



NATALIE AFSHARI, M.D.

Dr. 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 Sub-specialty 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.



EDWARD BUCKLEY, M.D.

Dr. Buckley is a native of Cincinnati, Ohio. He graduated from Duke University in 1972 with a BSE in Electrical Engineering. He received his MD degree from Duke in 1977 followed by a residency in ophthalmology. He then completed two fellowships, one in pediatric ophthalmology and the other in neuro-ophthalmology, both at the University of Miami Bascom Palmer Eye Institute returning to the faculty at Duke in 1983. He is currently the James and Heather Gills Professor of Ophthalmology and Pediatrics, Chair of the Department of Ophthalmology and Vice Dean for Education for the School of Medicine, overseeing all of the student education programs including the PA, DPT, Path Assistant and Masters of Clinical Research, Biostatistics, and Clinical Leadership. He was the Chief of both the Pediatric and Neuro-ophthalmology services for many years. He has been involved with the development of the Duke-National University of Singapore Medical School (Duke-NUS) education program since 2001 and currently Co-Chairs the Duke-NUS

Academic Committee. He is the director of the pediatric ophthalmology fellowship program at Duke and has trained over 50 clinical and 10 research fellows

Dr. Buckley has served as President of the American Association of Pediatric Ophthalmology (AAPOS) and Strabismus, Chair of the American Board of Ophthalmology, Chair of the Section of Ophthalmology of the American Academy of Pediatrics, President of the American Orthoptic Society, and as Editor-in-Chief of the Journal of AAPOS. He has received the Life Time Achievement Award from the American Academy of Ophthalmology (AAO) and AAPOS. He has published/edited eight books, 40 book chapters, and over 120 peer-reviewed articles. He has given many prestigious named lectures including the Marshall Parks Lecture at the AAO, the Costenbader lecture at AAPOS and the Richard Scobee Memorial Lecture for the AACO. Although he is considered an expert in multiple aspects of pediatric ophthalmology, Dr. Buckley is perhaps best known for his research and clinical innovations involving the treatment of complicated strabismus and congenital cataracts.



STEVEN JON GEDDE, MD, Professor of Ophthalmology and Vice Chairman of Education at the Bascom Palmer Eye Institute. Dr. Gedde received his medical degree from Vanderbilt University School of Medicine. Dr. Gedde completed his residency training in ophthalmology at Wills Eye Hospital, where he also served as Chief Resident. His clinical glaucoma fellowship was done at the Bascom Palmer Eye Institute.

Dr. Gedde has lectured nationally and internationally. He has

authored or coauthored more than 250 articles, book chapters, and abstracts. He is Editor of the second edition of *Curb-side Consultation in Glaucoma: 49 Clinical Questions*, and he serves on the Editorial Boards for *Ophthalmology*, *Journal of Academic Ophthalmology*, *EyeNet*, *Ocular Surgery News*, *Ophthalmology Management*, and *EyeWorld*. Dr. Gedde has been listed among America's Top Doctors, Best Doctors in America, and Florida Super Doctors. He received the American Academy of Ophthalmology Achievement Award in 2006 and Senior Achievement Award in 2012. He has served as the Residency Program Director at the Bascom Palmer Eye Institute since 1999, and he was selected as the Excellence in Health Care Educator of the Year in 2009. Dr. Gedde is also a study chairman for the Tube Versus Trabeculectomy (TVT) Study and Primary Tube Versus Trabeculectomy (PTVT) Study, multicenter randomized clinical trials comparing tube shunt surgery with trabeculectomy.



SOOSAN JACOB, MS, DNB, FRCS (Glasg), MNAMS, FERC

Dr. Jacob is Director and Chief of Dr. Agarwal's Refractive and Cornea Foundation (DARCF) and Orbit & Oculoplasty in Dr. Agarwal's Eye Hospital, Chennai, India. She is a gold medalist in Ophthalmology and has won many (40) international awards for her innovative techniques and video films at prestigious international conferences. In addition she is a two-time recipient of the prestigious Golden Apple award for Most Outstanding Case in Complications and Challenging Cases Symposium in Cataract Surgery at the American Society of Cataract and Refractive Surgery (2008-2010).

Dr. Jacob was the first to bring out the concept of Anterior segment transplantation which was featured in all major newspapers and on India Today as one of the Top 10 Medical Breakthroughs in 2009. She is now working on Allogenic Presbyopic implants as a new technique for decreasing spectacle independence for presbyopes.

Dr. Jacob has authored numerous peer reviewed publications (76) as well as more than 188 chapters in 29 textbooks by international and national publishers and is also the editor for 15 textbooks in Ophthalmology.



ELIZABETH JOHNSON, PhD

Dr. Johnson obtained her B.S., M.S., and Ph.D. in nutritional biochemistry at the University of Wisconsin-Madison. She did her postdoctoral work at the Jean Mayer USDA Human Nutrition Center on Aging at Tufts University where she is currently a Scientist I in the Antioxidants Research Laboratory. She is also an associate professor at the Friedman School of Nutrition Science & Policy at Tufts University. Her research interests are in nutrition and healthy aging with an emphasis on age-related visual and cognitive function. She has been involved in numerous clinical and epidemiologic studies and has collaborations with academia, industry and government agencies. Dr. Johnson has membership with the American College of Nutrition, International Carotenoid Society, Carotenoid Research Interactive Group, American Society for Nutrition, and Macula & Nutrition Group. Dr. Johnson also has editorial roles at Food Reviews International and Journal of Nutrition for the Elderly.



PHILIP ROSENFELD, M.D., PhD

Dr. Rosenfeld received both his MD and PhD degrees from the Johns Hopkins School of Medicine, and completed his residency in ophthalmology and a post-doctoral research fellowship at the Massachusetts Eye and Ear Infirmary of Harvard Medical School. Following

his residency and research fellowship, he completed a vitreoretinal fellowship at the Bascom Palmer Eye Institute. In 1996, Dr. Rosenfeld joined the faculty of the Bascom Palmer Eye Institute at the University of Miami Miller School of Medicine where he is now Professor of Ophthalmology.

Dr. Rosenfeld is a retina specialist with a primary clinical research interest in age-related macular degeneration. Since joining the faculty at the Bascom Palmer Eye Institute, Dr. Rosenfeld has been a principal investigator in numerous photodynamic therapy trials using verteporfin (Visudyne®; QLT, Novartis): TAP, VIP, VOH, VIM, VER and VALIO trials. Dr. Rosenfeld was study chairman for the VIM and VALIO trials. In addition, Dr. Rosenfeld has been principal investigator for the Phase I/II/III Lucentis™ (Genentech) trials, the Macugen® (pegaptanib, Eyetech) Phase II/III trials, and the Anecortave Acetate (RETAANE™; Alcon) Phase II/III clinical trial. He is involved in ongoing clinical trials investigating novel therapies for wet (neovascular) and dry (non-neovascular) AMD. In particular, Dr. Rosenfeld designed and initiated a study investigating systemic bevacizumab (Avastin®), an anti-VEGF therapy, for the treatment of neovascular AMD. More recently, Dr. Rosenfeld pioneered the use of intravitreal Avastin for the treatment of neovascular AMD and other exudative retinal diseases. In addition, Dr. Rosenfeld is involved in ongoing

investigations exploring the use of spectral domain (Fourier domain) optical coherence tomography (OCT) in retinal diseases. Dr. Rosenfeld is a member of the American Academy of Ophthalmology, the American Society of Retinal Specialists, the Retina Society, the Macula Society, the Association for Research in Vision and Ophthalmology (ARVO), and the Pan-American Ophthalmology Association (PAOA).

Competency Questions

Subluxated Cataracts, Glued Capsular Hooks and Glued IOLs –*Soosan Jacob, MS, FRCS, DNB*

1. Has the lecture helped in a better understanding of the management of subluxated cataracts?

Yes ___ No ___

2. Have you understood most of the recent advances?

Yes ___ No ___

3. Did this talk influence the way you manage subluxated cataracts?

Yes ___ No ___

4. Do you decide treatment strategy for subluxated cataracts based on degree of dialysis?

Yes ___ No ___

5. Do you decide treatment strategy for subluxated IOLs based on whether they are in the bag/ out of the bag IOL subluxations?

Yes ___ No ___

6. Would you use most of the devices discussed if all had been FDA approved?

Yes ___ No ___

Stab Incision glaucoma Surgery

– *Soosan Jacob, MS, FRCS, DNB*

1. Has the lecture helped you understand the technique of Stab Incision Glaucoma Surgery?

Yes ___ No ___

2. After appropriate training, would you be willing to adopt this into your practise?

Yes___ No___

3. Do you believe lesser conjunctival dissection can lead to lesser scarring and better filtration?

Yes___ No___

4. Do you believe posterior 5ow and mostly intact conjunctival drainage channels are an advantage?

Yes___ No___

5. Do you think the incidence of overhanging blebs will be lower with SIGS?

Yes___ No___

6. Can SIGS be an economical advantage as compared to most MIGS devices?

Yes___ No___

David W. Parke, Sr. Lecture - OCT Angiography of Macular Diseases

– *Phil Rosenfeld, MD*

Question 1. Advantages of swept source OCT imaging include:

- a. *Shorter wavelength for better choroidal imaging*
- b. *Faster scanning speeds for denser raster scans and improved image quality*
- c. *Lower cost*
- d. *All of the above*

Question 2. There is a difference between SD-OCT angiography and SS-OCT angiography in visualizing

- a. *Retinal neovascularization*

- b. Areas of decreased retinal perfusion*
- c. Choroidal neovascularization*
- d. None of the above*

OCT Angiography and Widefield Imaging for the Diagnosis & Management of Neovascular AMD

– Phil Rosenfeld, MD

Question 1. Advantages of swept source OCT imaging for the diagnosis of subclinical choroidal neovascularization include:

- a. Longer wavelength for better choroidal imaging*
- b. Faster scanning speed resulting in more A-scans per B-scan and more B-scan repeats per area scanned*
- c. Larger scanning area*
- d. All of the above*

Question 2. The advantage of OCT angiography over routine structural B-scan imaging alone includes:

- a. The ability of OCT angiography to generate both flow and structural images*
- b. The lower cost of OCT angiography*
- c. The detection of leakage using OCT angiography*
- d. None of the above*

Nutrition and the Aging Eye

– Elizabeth Johnson

Question 1: The objectives of AREDS2 include:

- a. To study lutein & zeaxanthin and omega-3 fatty acids on the development of advanced AMD*
- b. To study the effects of these supplements on cataract and moderate vision loss*

- c. To study the effects of eliminating β -carotene from the original AREDS formula*
- d. To study the effects of reducing zinc in the original AREDS formula*
- e. All of the above*

Question 2. The AREDS2 results include:

- a. adding lutein/zeaxanthin or DHA/EPA to the original AREDS decreased the risk of advanced AMD*
- b. AREDS with lutein/zeaxanthin and no β -carotene had a slight increase in risk of advanced AMD compared to AREDS + β -carotene*
- c. Lutein/zeaxanthin supplementation for participants with very low levels of lutein+zeaxanthin in their diet had a lower risk of advanced AMD.*
- d. Smokers who took AREDS with β -carotene had a lower incidence of lung cancer*
- e. There was a decrease in the effectiveness of the formulation when β -carotene was removed or zinc was lowered.*

SAVE THE DATE
JANUARY 13, 2017



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