

BASCOM PALMER EYE INSTITUTE

# Keratoconus: Basics and New Advances, An Interactive Course and Wet Lab



March 23, 2019

*Sponsored by the University of Miami Miller School of Medicine*



UNIVERSITY OF MIAMI  
MILLER SCHOOL  
of MEDICINE



## Keratoconus: Basics and New Advances, An Interactive Course and Wet Lab

**March 23, 2019**

Bascom Palmer Eye Institute invites you to Miami this spring to join us for our *Bascom Palmer Keratoconus: Basics and New Advances* CME program. This unique and exciting **symposium and wet lab** will be held March 23, 2019 at the Bascom Palmer Eye Institute in Miami. *Come see us this spring in Miami!*



## **DATE**

Saturday, March 23, 2019: 7:50 am to 5:30 pm

## **LOCATION**

Bascom Palmer Eye Institute  
900 NW17th Street  
Miami, Florida 33136

## **COURSE DESCRIPTION**

This one-day course is designed for ophthalmologists, optometrists and contact lens specialists whose clinical practices include comprehensive ophthalmology, corneal diseases, refractive surgery, primary care optometry and contact lens fitting.

A distinguished panel of guest speakers and Bascom Palmer faculty will use an interdisciplinary, interactive approach as they present a variety of clinical vignettes to illustrate the new paradigm in the diagnosis, treatment and visual rehabilitation of patients with keratoconus.

Topics will include:

- The new paradigm in the surgical treatment of patients with keratoconus including corneal collagen crosslinking, intracorneal rings and keratoplasty, with illustrative video-based presentations
- New advances in diagnostic techniques to identify patients with keratoconus and those at risk of developing post refractive surgery corneal ectasia
- New advances in contact lenses for the visual rehabilitation of patients with keratoconus

## **COURSE OBJECTIVES**

Upon completion of this program, participants should be able to:

- Interpret results of corneal topography or tomography for screenings of patients with keratoconus
- Incorporate novel diagnostic techniques in the diagnosis of patients with keratoconus
- Incorporate evidence-based decision-making when planning surgery for patients with keratoconus
- Incorporate the new contact lenses technologies for visual rehabilitation of patients with keratoconus
- Identify contact lens intolerance and identify best management regimen to improve patient tolerance or deciding to move to another treatment modality
- Identify and better manage the systemic and ocular diseases associated with keratoconus
- Appraise when and how to perform various surgical techniques to treat keratoconus
- Prevent and recognize intraoperative complications and manage the complications from corneal surgery for patients with keratoconus
- Identify patients with progressive keratoconus and better determine who is an appropriate candidate for crosslinking and determine appropriate timing of treatment using an evidence-based approach

## Program

Subject to change

### SATURDAY, MARCH 23, 2019

- 7:00 am **Registration and Continental Breakfast**
- 7:50 **Welcome and Overview**  
**Mohamed F. Abou-Shousha, MD, PhD**  
**SESSION I: Diagnosing Keratoconus**  
*Moderators: Anat Galor, MD, MSPH and Allister G. Gibbons, MD*
- 8:00 Etiology: Genetics, Inflammation, Allergy and Eye Rubbing  
**Anat Galor, MD, MSPH**
- 8:10 Modern Day Corneal Topography, Tomography, and Eliminating the Risk of Ectasia: Part 1  
**Stephen D. Klyce, PhD, FARVO**
- 8:20 Modern Day Corneal Topography, Tomography, and Eliminating the Risk of Ectasia: Part 2  
**Stephen D. Klyce, PhD, FARVO**
- 8:30 Corneal Microlayer Tomography for the Diagnosis of Keratoconus  
**Mohamed F. Abou-Shousha, MD, PhD**
- 8:40 Aberrometry and Hysteresis in Keratoconus  
**Luis Fernandez-Vega, MD**
- 8:50 Risk Factors for Post-LASIK Ectasia  
**Steven C. Schallhorn, MD**
- 9:00 Case Presentations and Panel Discussion  
*Panelists: Mohamed F. Abou-Shousha, MD, PhD; Luis Fernandez-Vega, MD; Anat Galor, MD, MSPH; Allister G. Gibbons, MD; Stephen D. Klyce, PhD, FARVO; Steven C. Schallhorn, MD; and Sonia H. Yoo, MD*
- 9:30 **Refreshment Break**  
**SESSION II: Treatment Part 1**  
*Moderators: Kendall E. Donaldson, MD, MS; and Mohamed F. Abou-Shousha, MD, PhD*
- 10:00 Contact Lenses Choices for Keratoconus Patients  
**Edward Boshnick, OD, FAAO, FSLs**
- 10:15 Ocular Surface Disease and Keratoconus  
**Marguerite B. McDonald, MD, FACS**
- 10:30 Cataract and Keratoconus?  
**Kendall E. Donaldson, MD, MS**
- 10:45 Glaucoma and Keratoconus?  
**Richard K. Lee, MD, PhD**
- 11:00 Phakic Lenses in Keratoconus  
**Steven C. Schallhorn, MD**
- 11:15 What's New in Scleral Lenses?  
**Chandra Mickles, OD, MSc, FAAO, FSLs**
- 11:30 **Case Presentations and Panel Discussion**  
*Panel: Edward Boshnick, OD, FAAO, FSLs; William W. Culbertson, MD; Kendall E. Donaldson, MD, MS; Richard K. Lee, MD, PhD; Chandra Mickles, OD, MSc, FAAO, FSLs; and Marguerite B. McDonald, MD, FACS*

- 12:00 pm **Lunch**
- SESSION III: Treatment Part 2**  
*Moderators: William W. Culbertson, MD, Sonia H. Yoo, MD and Mohamed F. Abou-Shousha, MD, PhD*
- 12:45 Penetrating and Deep Lamellar Keratoplasty  
**Mohammad F. Anwar, MD**
- 1:00 Corneal Rings for Vision Rehabilitation  
**Luis Fernandez-Vega, MD**
- 1:15 Crosslinking, Indications and Contraindication  
**Rajesh K. Rajpal, MD**
- 1:30 Crosslinking Plus: Combined with Intra-Corneal Rings or with Small Incision Lenticule (SMILE)  
**Osama Ibrahim, MD**
- 1:45 Current Advances in Crosslinking - Customized and Epi-On Approaches  
**Rajesh K. Rajpal, MD**
- 2:00 Case Presentations and Panel Discussion  
*Panel: Mohammad F. Anwar, MD; Luis Fernandez-Vega, MD; Osama Ibrahim, MD; and Rajesh K. Rajpal, MD*
- 2:30 **Refreshment Break**
- SESSION IV: Wet Labs**  
**Bascom Palmer Eye Institute 6th Floor**  
*\*This session is not accredited for CME*
- 2:45 - 4:00 **Wet Lab 1:** Crosslinking and Corneal Rings  
**Rajesh K. Rajpal, MD and Luis Fernandez-Vega, MD**
- Wet Lab 2:** Deep Anterior Lamellar Keratoplasty  
**Mohammad F. Anwar, MD**
- Wet Lab 3:** Diagnosis of Keratoconus Bootcamp  
**Stephen D. Klyce, PhD, FARVO**
- Wet Lab 4:** Contact Lens Fitting  
**Edward Boshnick, OD, FAAO, FSLs and Chandra Mickles, OD, MSc, FAAO, FSLs**
- 4:15 - 5:30 **Wet Lab 1:** Crosslinking and Corneal Rings  
**Rajesh K. Rajpal, MD and Luis Fernandez-Vega, MD**
- Wet Lab 2:** Deep Anterior Lamellar Keratoplasty  
**Mohammad F. Anwar, MD**
- Wet Lab 3:** Diagnosis of Keratoconus Bootcamp  
**Stephen D. Klyce, PhD, FARVO**
- Wet Lab 4:** Contact Lens Fitting  
**Edward Boshnick, OD, FAAO, FSLs and Chandra Mickles, OD, MSc, FAAO, FSLs**
- 5:30 **Adjourn/Cocktail Reception**

## Speakers



### COURSE DIRECTOR

#### Mohamed F. Abou-Shousha, MD, PhD

Assistant Professor of Clinical Ophthalmology  
Bascom Palmer Eye Institute  
University of Miami Miller School of Medicine  
Miami FL

### BASCOM PALMER EYE INSTITUTE SPEAKERS UNIVERSITY OF MIAMI MILLER SCHOOL OF MEDICINE

#### William W. Culbertson, MD

Professor of Ophthalmology  
Bascom Palmer Eye Institute  
Miami, FL

#### Kendall E. Donaldson, MD, MS

Associate Professor of Clinical Ophthalmology  
Bascom Palmer Eye Institute  
Plantation, FL

#### Anat Galor, MD, MSPH

Associate Professor of Ophthalmology  
Bascom Palmer Eye Institute  
Miami, FL

#### Allister G. Gibbons, MD

Assistant Professor of Clinical Ophthalmology  
Bascom Palmer Eye Institute  
Naples, FL

#### Richard K. Lee, MD, PhD

Walter G. Ross Distinguished Chair in Ophthalmic Research  
Associate Professor of Ophthalmology, Cell Biology, and Neuroscience Graduate Program  
Bascom Palmer Eye Institute  
Miami, FL

#### Sonia H. Yoo, MD

Professor of Ophthalmology  
Bascom Palmer Eye Institute  
Miami, FL

## Suggested hotels by area

### BRICKELL AREA

**Conrad Miami** (305) 503-6500

<http://www.conradmiami.com>

### DOWNTOWN MIAMI

**InterContinental Miami Hotel** (800) 593-5447 or (305)577-1000

<http://www.icmiamihotel.com>

**J.W. Marriott Marquis** (305) 421-8600

<http://www.marriott.com/hotels/travel/miamj-jw-marriott-marquis-miami>

**Miami Marriott Biscayne Bay** (305) 374-3900

<http://www.marriott.com/hotels/travel/miabb-miami-marriott-biscayne-bay>

### MIAMI BEACH

**Eden Roc** (786) 801-6886

<http://www.edenrochotelmiami.com>

### COCONUT GROVE

**Mutiny Hotel** (305) 441-2100 or 888-868-8469

<http://www.providentresorts.com/mutiny-hotel>

**Ritz-Carlton Coconut Grove - Miami** (800) 241-3333 or (305) 644-4680

<http://www.ritzcarlton.com/en/hotels/miami/coconut-grove>



## Guest Speakers



### **Mohammad F. Anwar, MD**

Anwar Eye Center  
Moundsville, WV



### **Edward Boshnick, OD, FAAO, FSLs**

Global Vision Rehabilitation Center  
Miami, FL



### **Luis Fernandez-Vega, MD**

Fernandez Vega Ophthalmological Institute  
Oviedo, Spain



### **Osama Ibrahim, MD**

Professor of Ophthalmology  
Alexandria University  
Chief Corneal and Refractive Surgery  
Roayah Alex Vision Correction Center  
Alexandria, Egypt



### **Stephen D. Klyce, PhD, FARVO**

Adjunct Professor of Ophthalmology  
Mount Sinai School of Medicine  
New York, NY



### **Marguerite B. McDonald, MD, FACS**

Ophthalmic Consultants of Long Island  
Lynbrook, NY



### **Chandra Mickles, OD, MSc, FAAO, FSLs**

Associate Professor of Optometry  
Nova Southeastern University  
Ft. Lauderdale, FL



### **Rajesh K. Rajpal, MD**

SeeClearly Vision  
Arlington, VA



### **Steven C. Schallhorn, MD**

Gordon Schanzlin New Vision Institute  
San Diego, CA

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#### DATE

**Saturday, March 23, 2019: 7:50 am to 5:30 pm**

#### LOCATION

**Bascom Palmer Eye Institute**

900 NW 17th Street, Miami, Florida 33136

#### CONFERENCE FEES \$250

Conference fees include course materials, welcome reception, continental breakfast, lunch and refreshment breaks.

#### CANCELLATION POLICY

Conference tuition, less a \$50 cancellation fee, is refundable if notice is received by March 8, 2019. No refunds shall be considered after March 8, 2019 or after sixty (60) days following payment.

#### ACCREDITATION

The University of Miami Leonard M. Miller School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

\***COPE** (Council on Optometric Practitioner Education) CE Approval Pending.

#### CREDIT DESIGNATION

The University of Miami Leonard M. Miller School of Medicine designates this live activity for a maximum of **5.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

#### SERVICES FOR THE DISABLED

If special arrangements are required for an individual with a disability to attend this conference, please contact Karen Davila at (305) 326-6110 on or before March 8, 2019.

#### DISCLOSURE AND CONFLICT OF INTEREST RESOLUTION

All conflicts of interest of any individual(s) in a position to control the content of this CME activity will be identified and resolved prior to this educational activity being provided. Disclosure about provider and faculty relationships, or the lack thereof, will be provided to learners.



## REGISTRATION

### To register on-line:

Please visit:

<http://bascompalmer.org/cme/keratoconus/registration>

### To register by mail:

Please complete the registration form and return with your check or credit card payment to:

Bascom Palmer Eye Institute  
Department of Continuing Medical Education  
900 NW 17th Street, Suite 6  
Miami, FL 33136  
(Att: Karen Davila)

**To register by fax:** Please complete the registration form and return with your credit card payment to (305) 326-6518.

## FOR MORE INFORMATION

[www.bascompalmer.org](http://www.bascompalmer.org)

Telephone: (305) 326-6110

Email: [bascompalmercme@miami.edu](mailto:bascompalmercme@miami.edu)

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