

## Curriculum Vitae

**Charlotte Enns Joslin, O.D., Ph.D.**

Assistant Professor  
Department of Ophthalmology and Vision Sciences  
College of Medicine  
University of Illinois at Chicago

**Date** April 30, 2009

### Contact Information

Business Address: University of Illinois at Chicago  
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UIC Eye Center (MC648)  
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### Education and Training

#### Undergraduate Education

Illinois Wesleyan University, Bachelor of Arts in Biology, May 1993

#### Professional Education

The Ohio State University College of Optometry  
Doctor of Optometry, June 1997

Clinical Externship:

Cleveland VA Medical Center, Brecksville and Wade Park Divisions

#### Residency

Jesse Brown (formerly West Side) VA Medical Center, Chicago, Illinois  
July 1997 – June 1998

Blind Rehabilitation Center, Hines VA Hospital, and Hines, Illinois  
July 1997 – June 1998

#### Graduate Education

School of Public Health, University of Illinois at Chicago, Chicago, Illinois  
Doctor of Philosophy, Division of Epidemiology  
August 2004 – May 2009  
Dissertation: The association between *Acanthamoeba* keratitis and domestic water  
exposure in the Chicago area  
Dissertation Advisor: Faith G. Davis, PhD

## **Licensure and Certification**

Illinois, DPA and TPA certification, 1998 - present

National Board of Examiners in Optometry, Parts I-III and TMOD, 1996 – 1997

## **Employment History**

### **Academic Appointments**

Clinical Instructor, Illinois College of Optometry

Primary Care, Contact Lens and Low Vision Clinics, Illinois Eye Institute

August 1998 – June 1999

Visiting Assistant Professor of Optometry in Ophthalmology, Dept. of Ophthalmology and

Visual Sciences, University of Illinois at Chicago

July 1999 – July 2001

Associate Professor of Ophthalmology, Department of Ophthalmology and Visual

Sciences, University of Illinois at Chicago

July 2001 – present

Teaching Assistant, Division of Epidemiology and Biostatistics, School of Public Health,  
University of Illinois at Chicago, Spring 2008

Advanced Quantitative Methods in Epidemiology, EPID501

### **Hospital Appointments**

Attending Staff, Department of Ophthalmology and Visual Sciences, University of Illinois  
at Chicago, July 1999 – present

Consulting Staff, Department of Surgery, Division of Optometry, Jesse Brown (formerly  
West Side) VA Medical Center, Chicago, Illinois, May 2000 - present

Attending Staff, UIC Department of Ophthalmology, Michael Reese Hospital, Chicago,  
Illinois, May 2001 – 2005

(Expired due to decreasing clinic availability with K23 award FTE requirements)

### **Private Practice Experience**

North Suburban Vision Consultants, Deerfield, Illinois, August 1998 - February 2000

## **Professional Society Memberships**

Association for Research in Vision and Ophthalmology

American College of Epidemiology

Society for Epidemiologic Research

International Society for Environmental Epidemiology

International Society of Exposure Science

American Public Health Association

American Academy of Optometry

Illinois Chapter of the American Academy of Optometry

Beta Sigma Kappa Honorary Society

Chicago Area Contact Lens Society

## **Honors and Awards**

Beta Sigma Kappa Honor Society

The Ohio State University, College of Optometry, 1995

Vistakon American Academy of Optometry Travel Fellowship Award

December, 1996

Alcon Award of Excellence in Clinical Contact Lens Care

The Ohio State University, College of Optometry, 1997

Fellow, American Academy of Optometry

December 1999 – present

Summer Invitational Research Institute, 2000 and 2002

American Academy of Optometry and American Optometric Association

Mentored Patient-Oriented Research Career Development Award, 2004

National Eye Institute

Campus Research Board, 2005

University of Illinois at Chicago

Award for Outstanding Research at the Doctoral Level, 2006

UIC School of Public Health

Delta Omega Honor Society National Poster Competition

Poster selected for presentation as 1 of 19 posters at the Delta Omega Poster Session  
American Public Health Association Annual Meeting, November 2006

Midwest Eye-Banks, Investigator Award, 2006

Midwest Eye-Banks

Prevent Blindness America, Investigator Award, 2006

Prevent Blindness America

Ezell Fellowship, 2006 – 2007

American Optometric Foundation

Diplomate, Contact Lens Section, American Academy of Optometry

December 2007 – present

Expert Group Corresponding Member, Vision and Hearing Loss Expert Group,

Global Burden of Diseases, Injuries and Risk Factors Study (GBD Study)

January 2008 – present

Award for Outstanding Research at the Doctoral Level, 2008

UIC School of Public Health

Prevent Blindness America, Investigator Award, 2008

Prevent Blindness America

Group Award for Public Health Epidemiology and Lab Research, CDC National Center for Zoonotic, Vector-Borne, and Enteric Diseases. Award acknowledging efforts made as part of the *Acanthamoeba* Keratitis Outbreak Investigation Team, 2008

International Society of Exposure Analysis and International Society for Environmental Epidemiology Joint Conference, 2008. Student Poster Award Winner in the area of Human Exposure Science, 2008.

Haenszel Research Award, 2009  
UIC School of Public Health

## **Administrative Service**

### **Institutional Service**

- 1999 - Faculty Advisory Committee  
Secretary, 2005 - 2008
- 2003- Oral Practice Examination Committee  
Chair, 2003 - 2006
- 2004 - Residency Education Committee, Member
- 2004 - Research Committee, Member
- 2004 - Chicago LIERI Lions Eye, Member
  
- 2007 Panelist, Career Development Panel. UIC, School of Public Health  
Presented experiences as a K-awardee in a campus-wide seminar targeted to junior faculty members interested in applying for career development awards

## **National Service**

### **Centers for Disease Control and Prevention, *Acanthamoeba* Keratitis Outbreak Investigation Team, Consultant**

Shared unpublished research data and UIC *Acanthamoeba* keratitis surveillance data with CDC officials that resulted in initiation of national outbreak investigation, and assisted in study design and survey development. Continue to provide UIC *Acanthamoeba* keratitis surveillance data.

Team awarded the Group Award for Public Health Epidemiology and Lab Research, CDC National Center for Zoonotic, Vector-Borne, and Enteric Diseases

### **Government Meetings and Presentations**

Ophthalmic Devices Panel, Food and Drug Administration (FDA), Center for Devices and Radiological Health Advisory Committee, "Comments pertaining to contact lens care systems" on behalf of the American Academy of Optometry. Washington, DC, June 10, 2008.

Contact Lens Microbiology Workshop. Co-sponsored by the Food and Drug Administration (FDA), Contact Lens Association of Ophthalmologists, American Optometric Association, the American Academy of Ophthalmology, and American Academy of Optometry. Invited on behalf of the FDA; the workshop purpose is to begin developing new testing methods and standards to evaluate disinfection efficacy of contact lens care products. January 22 – 23, 2009.

## **Community Service – National Media Dissemination of Research Findings**

Kamp, Jon. "Contact-Lens Solution Is Tied to Eye Infection." Wall Street Journal, May 26, 2007.

Winstein, Keith J. and Rundle, Rhonda L. "New Thinking on Eye Infections and Contacts: Scientists Focus on EPA Move to Cut Use of Chlorine In Public Water Supplies." Wall Street Journal, May 30, 2007.

Altman, Lawrence K. "Outbreak of Eye Infections Puzzles Officials." The New York Times. May 29, 2007

Infection outbreak baffles officials: Eye ailment linked to lens solution. Chicago Tribune. May 29, 2007

*Note: Following this article, there were 99 stories (47 print; 52 broadcast) on this topic. Selected stories include the following:*

No clear answers for lens wearers. Chicago Tribune, June 5, 2007.

Infection tied to recalled contact lens solution. Reuters Health Medical News, July 3, 2007

New thinking on eye infections and contact lenses. The Associated Press, May 3, 2007

Man nearly loses sight after using contact lens formula Chicago Sun-times May 31, 2007

### **Scientific Publication Referee**

|        |                                                                            |
|--------|----------------------------------------------------------------------------|
| 2006 - | American Journal of Ophthalmology                                          |
| 2008 - | Cornea                                                                     |
| 2009 - | Epidemiology and Infection                                                 |
| 2008 - | Indian Journal of Ophthalmology                                            |
| 2005 - | Investigative Ophthalmology and Visual Science                             |
| 2006 - | Journal of American Association for Pediatric Ophthalmology and Strabismus |
| 2007 - | Journal of Refractive Surgery                                              |
| 2005 - | Optometry and Vision Science                                               |

2007 Panelist, Training/Career Development Awards for Junior Faculty Annual Meeting of the American College of Epidemiology, Ft. Lauderdale, FL. Provided perspectives as a successful K-awardee on the career development award application process including reviewer feedback.

## **Teaching Service**

### **Clinical Teaching**

Illinois Eye Institute

Optometry students, third and fourth-year

1998 – 1999 Primary Care, Contact Lens and Low Vision Clinics,  
Attending  
4 – 5 students, 5 half days per week

University of Illinois at Chicago

Ophthalmology Resident Training

(Expired due to restricted clinic availability with K23 award FTE requirements)

1999 – 2004 Contact Lens Service, Attending  
1 resident, one half day per week

1999 – 2004 General Eye Clinic, Attending  
6 residents, two half day per week

2001 – 2004 UIC Eye Clinic at Michael Reese Hospital, Attending  
2 residents, two half day per week

Fellow Training: Contact Lens Service, Attending Physician  
2002 – 2003 Shelley Wu, OD; two half days per week  
2006 – 2007 Victoria Butcko, OD; two half days per week

Jesse Brown (formerly West Side) VA Medical Center  
VA optometry residents (WOC)

### **Didactic Teaching**

Illinois College of Optometry

Laboratory Instructor:

CLE 365.1 (Contact Lenses I). Fall 1998

CLE 262.1 (Accommodation and Binocular Assessment). Summer 1999

Laboratory Coordinator:

CLE 367 (Low Vision). Spring 1999

CLE 262.2 (Clinical Techniques). Winter 1998

University of Illinois at Chicago

Department of Ophthalmology and Vision Sciences

Resident Refraction Course, 1999 - present

6 residents, ~6 medical students

12 hours lecture/lab annually

Oral Practice Examination Committee

Chair, July 2003 – 2006

Developed an annual oral practice examination administered to all  
UIC ophthalmology residents and interested fellows

First Oral Practice Examination administered January, 2005

School of Public Health

Illinois Math and Science Academy presentation. Designed to teach basic epidemiologic principles and public health awareness. "*Acanthamoeba* keratitis: Why in the eye?" January 8, 2008.

Northwestern University's Center for Talent Development for gifted high school students. Designed to teach basic epidemiologic principles and public health awareness. "*Acanthamoeba* keratitis: Contributing factors." March 28, 2008.

Teaching Assistant, Division of Epidemiology and Biostatistics  
Advanced Quantitative Methods in Epidemiology, EPID501 (restricted to epidemiology doctoral students). Spring 2008

Jesse Brown (formerly West Side) VA Medical Center  
VA Optometry Residents, 2000 – present  
3 residents, 2 – 3 lecture hours annually

**Grant Support**

**Active Grants**

Prevent Blindness America (PI, 5%) 7/1/08 – 7/1/09  
"The role of the domestic water supply in a persistent *Acanthamoeba* keratitis outbreak following a contact lens solution recall"

NIH/NEI K23 EY15689 (PI, 80%) 9/15/04 – 8/30/09  
Mentored Patient-Oriented Research Career Development Award  
"Corneal Refractive Power Post Refractive Surgery"

American Cancer Society (PI: Dolocek) 8/1/06 – 8/1/08  
"Diet and Survival from Ovarian Cancer in Illinois Women"  
Co-Investigator, University of Illinois at Chicago

**Completed Grants**

Prevent Blindness America (PI, 5%) 7/1/06 – 7/1/07  
"Chicago-area *Acanthamoeba* Keratitis Study"

Midwest Eye-Banks (PI, 0%) 7/1/06 – 7/1/07  
"Chicago-area *Acanthamoeba* Keratitis Study"

Campus Research Board, Office of the Vice Chancellor (PI, 0%) 7/1/05 – 7/1/06  
University of Illinois at Chicago  
"*Acanthamoeba* Keratitis"

Quarter Lambda Technologies (PI, 0%) 2/1/04 – 2/1/05  
FDA 510K Clinical Investigation, SynergEyes contact lenses

NIH/NEI U10 EY 10419 (Participating Site PI: McMahon) 7/1/99 – 7/1/04  
"Collaborative Longitudinal Evaluation of Keratoconus (CLEK) Study"  
Participating Site, Co-Investigator

|                                                                                                                          |                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------------|
| Paragon Vision Sciences (PI, 0%)<br>“Corneal Refractive Therapy: Wavefront Analysis”                                     | 8/1/01 – 8/1/02 |
| Unilens Bifocal vs. Israeli Bifocal Contact Lens Feasibility Study<br>Co-Investigator, University of Illinois at Chicago | 8/2000          |
| Macrolens Rigid Gas Permeable Contact Lens Feasibility Study<br>Co-Investigator, University of Illinois at Chicago       | 5/2000          |
| Menicon Z-thin Extended Wear Contact Lens FDA Clinical Trials<br>Co-Investigator, North Suburban Vision Consultants      | 10/1999         |
| Alcon Optifree Express Solution Study<br>Co-Investigator, North Suburban Vision Consultants                              | 10/1999         |
| Ciba See3 Extended Wear Contact Lens FDA Clinical Trials<br>Co-Investigator, North Suburban Vision Consultants           | 2/1999          |

## Publications

### Peer-reviewed journal articles

1. McMahon TT, Anderson RJ, **Joslin CE**, Rosas GA. Precision of three topography instruments in keratoconus subjects. *Optom Vis Sci.* Aug 2001;78(8):599-604.
2. **Joslin CE**, McMahon TT, Kaufman LM. The effectiveness of occluder contact lenses in improving occlusion compliance in patients that have failed traditional occlusion therapy. *Optom Vis Sci.* Jun 2002;79(6):376-380.
3. Zadnik K, Steger-May K, Fink BA, **Joslin CE** et al and the CLEK Study Group. Between-eye asymmetry in keratoconus. *Cornea.* Oct 2002;21(7):671-679.
4. **Joslin CE**, Wu SM, McMahon TT, Shahidi M. Higher-order wavefront aberrations in corneal refractive therapy. *Optom Vis Sci.* Dec 2003;80(12):805-811.
5. Twa MD, Nichols JJ, **Joslin CE**, Kollbaum PS, Edrington TB, Bullimore MA, Mitchel GL, Cruickshanks KJ, Schanzlin DJ. Characteristics of corneal ectasia after LASIK for myopia. *Cornea.* Jul 2004;23(5):447-457.
6. **Joslin CE**, Wu SM, McMahon TT, Shahidi M. Is “whole eye” wavefront analysis helpful to Corneal Refractive Therapy? *Eye and Contact Lens.* Oct 2004;30(4):186-188; discussion 205-186.
7. **Joslin CE**, Koster J, Tu EY. Contact lens overrefraction variability in corneal power estimation after refractive surgery. *J Cataract Refract Surg.* Dec 2005;31(12):2287-2292.
8. **Joslin CE**, Tu EY, McMahon TT, Passaro DJ, Stayner LT, Sugar J. Epidemiological Characteristics of a Chicago-area Acanthamoeba Keratitis Outbreak. *Am J Ophthalmol.* Aug 2006;142(2):212-217 e212.

9. Gordon MO, Steger-May K, Szczotka-Flynn L, Riley C, **Joslin CE**, Weissman BA, Fink BA, Edrington TB, Olafsson HE. Baseline factors predictive of incident penetrating keratoplasty in keratoconus. *Am J Ophthalmol*. Dec 2006;142(6):923-930 e921.
10. MMWR Morb Mortal Wkly Rep Acanthamoeba Keratitis --- Multiple States, 2005—2007 (**Joslin CE**). May 26 2007; 56(Dispatch);1-3.
11. **Joslin CE**, Tu EY, Shoff ME, et al. The association of contact lens solution use and *Acanthamoeba* keratitis. *Am J Ophthalmol*. Aug 2007;144(2):169-180.
12. Butcko V, McMahon TT, **Joslin CE**, Jones L. Microbial keratitis and the role of rub and rinsing. *Eye Contact Lens*. Nov 2007;33(6 Pt 2):421-423; discussion 424-425.
13. Shoff ME, **Joslin CE**, Tu EY, Kubatko L, Fuerst PA. Efficacy of contact lens systems against recent clinical and tap water *Acanthamoeba* isolates. *Cornea* 2008;27:713-9.
14. Tu EY, **Joslin CE**, Sugar J, Booton GC, Shoff ME, Fuerst PA. The relative value of confocal microscopy and superficial corneal scrapings in the diagnosis of *Acanthamoeba* keratitis. *Cornea*. Aug 2008;27(7):764-772.
15. Tu EY, **Joslin CE**, Sugar J, Shoff ME, Booton GC. Prognostic Factors Affecting Visual Outcome in *Acanthamoeba* Keratitis. *Ophthalmology*. Jun 19 2008.
16. Booton GC, **Joslin CE**, Shoff ME, Tu EY, Kelly DJ, Fuerst PA. Genotypic Identification of *Acanthamoeba* sp. Isolates Associated with an Outbreak of *Acanthamoeba* keratitis. *Cornea*. *In press*.
17. Tu EY, Joslin CE, Nijm LM, Feder RS, Jain S, Shoff ME. Polymicrobial Keratitis: *Acanthamoeba* and Infectious Crystalline Keratopathy. *Am J Ophthalmol*. *In press*.
18. **Joslin CE**, Tu EY, Shoff ME, Anderson RJ, Davis FD. Shifting distribution of Chicago area *Acanthamoeba* keratitis cases. *Arch Ophthalmol*. *In press*.
19. Verani JR, Lorick SA, Yoder JS, Beach MJ, Braden CR, Roberts JM, Conover C, Chen S, McConnell KA, Chang DC, Park BJ, Jones DB, Visvesvara GS, Roy SL and the *Acanthamoeba* Keratitis Investigation Team (**Joslin CE**). National Outbreak of *Acanthamoeba* Keratitis Associated with Use of a Contact Lens Solution. *Emerging Infectious Diseases*. *In press*.

As part of the Collaborative Longitudinal Evaluation of Keratoconus (CLEK) Study:

20. Barr JT, Zadnik K, Wilson BS, Edrington TB, Everett DF, Fink BA, Shovlin JP, Weissman BA, Siegmund K, Gordon MO, and the CLEK Study Group (**Joslin, CE**). Factors associated with corneal scarring in the Collaborative Longitudinal Evaluation of Keratoconus (CLEK) Study. *Cornea*. Jul 2000;19(4):501-507.
21. Zadnik K, Barr JT, Edrington TB, Nichols JJ, Wilson BS, Siegmund K, Gordon MO, and the CLEK Study Group (**Joslin, CE**). Corneal scarring and vision in keratoconus: a baseline report from the Collaborative Longitudinal Evaluation of Keratoconus (CLEK) Study. *Cornea*. Nov 2000;19(6):804-812.

22. Fink BA, Barr JT, Edrington TB, Pierce GE, Schechtman KB, Rah MJ, Flom R, Zadnik K, and the CLEK Study Group (**Joslin, CE**). A comparison of two methods of evaluating cornea-to-contact lens base curve fluorescein patterns in keratoconus. *Optom Vis Sci*. Aug 2001;78(8):589-598.
23. Raasch TW, Schechtman KB, Davis LJ, Zadnik K and the CLEK Study Group (**Joslin, CE**). Repeatability of subjective refraction in myopic and keratoconic subjects: results of vector analysis. *Ophthalmic Physiol Opt*. Sep 2001;21(5):376-383.
24. Szczotka LB, Barr JT, Zadnik K and the CLEK Study Group (**Joslin, CE**). A summary of the findings from the Collaborative Longitudinal Evaluation of Keratoconus (CLEK) Study. CLEK Study Group. *Optometry*. Sep 2001;72(9):574-584.
25. Shen JF, McMahon TT, Cheng EL, et al and the CLEK Study Group (**Joslin, CE**). Lysosomal hydrolase staining of conjunctival impression cytology specimens in keratoconus. *Cornea*. Jul 2002;21(5):447-452.
26. Edrington TB, Gundel RE, Libassi DP, Wagner H, et al. and the CLEK Study Group (**Joslin CE**). Variables Affecting Rigid Contact Lens Comfort in the Collaborative Longitudinal Evaluation of Keratoconus (CLEK) Study. *Optom Vis Sci*. Mar 2004;81(3):182-188.
27. Nichols JJ, Steger-May K, Edrington TB, Zadnik K and the CLEK Study Group (**Joslin CE**). The relation between disease asymmetry and severity in keratoconus. *Br J Ophthalmol*. Jun 2004;88(6):788-791.
28. Kymes SM, Walline JJ, Zadnik K, Gordon MO and the CLEK Study Group (**Joslin CE**). Quality of life in keratoconus. *Am J Ophthalmol*. Oct 2004;138(4):527-535.
29. McMahon TT, Anderson RJ, Roberts C, Mahmoud AM, Szczotka-Flynn LB, Raasch TW, Friedman NE, Davis LJ, and the CLEK Study Group (**Joslin CE**). Repeatability of Corneal Topography Measurement in Keratoconus with the TMS-1. *Optom Vis Sci*. May 2005;82(5):405-415.
30. Fink BA, Wagner H, Steger-May K, et al and the CLEK Study Group (**Joslin, CE**). Differences in keratoconus as a function of gender. *Am J Ophthalmol*. Sep 2005;140(3):459-468.
31. Zadnik K, Barr JT, Steger-May K, Edrington TB, McMahon TT, Gordon MO, and the CLEK Study Group (**Joslin CE**). Comparison of flat and steep rigid contact lens fitting methods in keratoconus. *Optom Vis Sci*. Dec 2005;82(12):1014-1021.
32. Barr JT, Wilson BS, Gordon MO, et al, and the CLEK Study Group (**Joslin CE**). Estimation of the Incidence and Factors Predictive of Corneal Scarring in the Collaborative Longitudinal Evaluation of Keratoconus (CLEK) Study. *Cornea*. Jan 2006;25(1):16-25.
33. Davis LJ, Schechtman KB, Wilson BS, et al. and the CLEK Study Group (**Joslin CE**). Longitudinal changes in visual acuity in keratoconus. *Invest Ophthalmol Vis Sci*. Feb 2006;47(2):489-500.

34. Mahmoud AM, Roberts C, Lembach R, Herderick EE, McMahon TT and the CLEK Study Group (**Joslin CE**). Simulation of machine-specific topographic indices for use across platforms. *Optom Vis Sci*. Sep 2006;83(9):682-693.
35. McMahon TT, Edrington TB, Szczotka-Flynn L, Olafsson HE, Davis LJ, Schechtman KB and the CLEK Study Group (**Joslin CE**). Longitudinal changes in corneal curvature in keratoconus. *Cornea*. Apr 2006;25(3):296-305.
36. McMahon TT, Szczotka-Flynn L, Barr JT, et al. and the CLEK Study Group (**Joslin CE**). A new method for grading the severity of keratoconus: the Keratoconus Severity Score (KSS). *Cornea*. Aug 2006;25(7):794-800.
37. Wagner H, Barr JT, Zadnik K and the CLEK Study Group (**Joslin CE**). Collaborative Longitudinal Evaluation of Keratoconus (CLEK) Study: methods and findings to date. *Cont Lens Anterior Eye*. Sep 2007;30(4):223-232.
38. Kymes SM, Walline JJ, Zadnik K, Sterling J, Gordon MO and the CLEK Study Group (**Joslin CE**). Changes in the quality-of-life of people with keratoconus. *Am J Ophthalmol* 2008;145:611-617.
39. Mahmoud AM, Roberts CJ, Lembach RG, Twa MD, Herderick EE, McMahon TT and the CLEK Study Group (**Joslin CE**). CLMI: the cone location and magnitude index. *Cornea* 2008;27:480-7.
40. Szczotka-Flynn L, Slaughter M, McMahon T, et al. and the CLEK Study Group (**Joslin CE**). Disease severity and family history in keratoconus. *Br J Ophthalmol* 2008;92:1108-11.

#### **Non Peer-Reviewed Publications**

1. **Joslin, CE**. Contact Lenses and Complications. *Contact Lens Spectrum*. 2003 Feb; 18(2):42-45.
2. **Joslin, CE**, McMahon TT. Custom contact lens aberration correction. *Contact Lens Spectrum*. 2004 Sept; 19(9).
3. **Joslin CE**. When Complications Arise. *Advanced Studies in Contact Lens Care and Ocular Health: understanding and assessing the epidemiology, current patterns, and complications of contact lenses*. Johns Hopkins Advanced Studies in Ophthalmology. May 2008;5(3)79 – 82; 83 - 86.
4. **Joslin CE**. Point counterpoint topic: hydrogen peroxide versus MPS. Peroxide systems provide maximum disinfection efficacy. *Contact Lens Spectrum*. In press.

#### **Book Chapters**

1. Kara-Jose N, Coral-Ghanem C, **Joslin CE**. Complications associated with contact lens use. In: *Contact Lenses in Ophthalmic Practice*. Ed: Mannis MJ, Zadnik K. New York: Springer-Verlag. 2004.

## Abstracts

1. **Joslin CE**, Moyle WE, Reichelt EJ, Stelmack TR, Marciniak MM. Predicted versus prescribed magnification in low vision patients with juxtafixational scotomas. *Optom Vis Sci*. December 14, 1997;74(Supp).
2. **Joslin CE**, Stelmack JA. Effect of RPE transplants on low vision rehabilitation. *Optom Vis Sci*. December 14, 1998;75(Supp).
3. **Joslin CE**, McMahon TT. Effectiveness of occluder contact lenses in pediatric aphakia. *Optom Vis Sci*. December 12, 1999;76(Supp).
4. McMahon TT, **Joslin CE**, Anderson RJ, Rosas G. Instrument precision comparisons for three topographers in keratoconus subjects. *Optom Vis Sci*. December 11, 2000;77(Supp).
5. **Joslin CE**, Shahidi M. Higher order wavefront aberrations in Orthokeratology. *Optom Vis Sci*. December 12, 2002;79(Supp).
6. **Joslin CE**, Mitchel GL, Yeung K, Rosenstiel CE, Pederson K, McMahon TT. Contact lens wear and graft rejection in penetrating keratoplasty. *Optom Vis Sci*. December 12, 2002;79(Supp).
7. Twa MD, Nichols JJ, **Joslin CE**, Kollbaum P, Edrington T, Schanzlin DJ. Characteristics of Corneal Ectasia after Myopic LASIK. *Invest. Ophthalmol. Vis. Sci*. 2003;44:ARVO E-Abstract 2640.
8. Twa MD, Nichols JJ, Kollbaum P, **Joslin CE**, Edrington T, Bullimore M, Mitchell GL, Cruickshanks K, Schanzlin D. Early onset corneal ectasia after LASIK. *Optom Vis Sci*. December 4, 2003;80(Supp).
9. Wu SM, **Joslin CE**, McMahon TT. The optics of the peripheral cornea under centrally masked conditions. *Optom Vis Sci*. December 6, 2003;80(Supp).
10. **Joslin CE**, Wilson B, Barr JT, Gordon M, Zadnik K. Clinical outcomes in keratoconus following penetrating keratoplasty. *Optom Vis Sci*. December 6, 2003;80(Supp).
11. **Joslin CE**, Koster J, Tu E. Predicting corneal refractive power post myopic LASIK using contact lens overrefraction. *Optom Vis Sci*. December 5, 2003;80(Supp).
12. **Joslin CE**, Wu SM, McMahon TT, Shahid M. Whole eye, corneal and internal aberrations induced by corneal refractive therapy. *Optom Vis Sci*. December 4, 2003;80(Supp).
13. Edrington TB, **Joslin CE**, Wilson B, Gordon M, Zadnik K. Clinical outcomes in keratoconus following penetrating keratoplasty. *Invest. Ophthalmol. Vis. Sci*. 2004;45:ARVO E-Abstract 2895.
14. **Joslin CE**, Koster J, Tu E. Corneal Refractive Power Post Refractive Surgery. *Invest. Ophthalmol. Vis. Sci*. 2004;45:ARVO E-Abstract 308.
15. Munir WM, Tu EY, **Joslin CE**, McMahon TT. Comparison of Hartmann Shack Aberrometer and OPD Scan in Postkeratoplasty Wavefront Analysis of Interrupted

- Suturing versus Combined Interrupted and Continuous Suturing Techniques. *Invest. Ophthalmol. Vis. Sci.* 2005;46:ARVO E-Abstract 847.
16. **Joslin CE**, Tu EY. Corneal refractive power estimation and IOL calculation post refractive surgery. *Optom Vis Sci.* December 10, 2004;81(Supp).
  17. **Joslin CE**, Tu EY, McMahon TT, Sugar J. IOL Power Calculation in Eyes Having Undergone Myopic Refractive Surgery and Cataract Surgery *Invest. Ophthalmol. Vis. Sci.* 2005;46:ARVO E-Abstract 859.
  18. **Joslin CE**, Tu EY, McMahon TT, Sugar JA. Geographical Distribution of the Chicago-area *Acanthamoeba* Keratitis Outbreak. Annual Meeting of the American Academy of Optometry, December 2005.
  19. **Joslin CE**, Tu EY, McMahon TT, Passaro DJ, Stayner LT, Sugar JA. Descriptive epidemiology of the Chicago-area *Acanthamoeba* Keratitis Outbreak. UIC School of Public Health Student Research Forum and Awards Day, April 2006.
  20. **Joslin CE**, Tu EY, McMahon TT, Passaro DJ, Stayner LT, Sugar JA. Descriptive epidemiology of the Chicago-area *Acanthamoeba* Keratitis Outbreak. *Invest. Ophthalmol. Vis. Sci.* 2006;47:ARVO E-Abstract 5563.
  21. **Joslin CE**, Tu EY, McMahon TT, Passaro DJ, Stayner LT, Sugar JA. Descriptive epidemiology of the Chicago-area *Acanthamoeba* Keratitis Outbreak. Annual Meeting of the American Public Health Association Annual Meeting, Delta Omega Honor Society National Poster Competition, November 2006.
  22. **Joslin CE**, Tu EY, McMahon TT, Sugar JA, Stayner LT. Chicago-area *Acanthamoeba* keratitis outbreak and contact lens solution use. Annual Meeting of the American Academy of Optometry, December 2006.
  23. Shoff ME, **Joslin CE**, Booton, GC, Tu EY, Fuerst PA. Prevalence of *Acanthamoeba* in Chicago area tap water. *Invest. Ophthalmol. Vis. Sci.* 2007;48:ARVO E-Abstract 338.
  24. Booton GC, **Joslin CE**, Shoff ME, Tu EY, Fuerst PA. Genotypic identification of *Acanthamoeba* sp. isolates associated with an outbreak of *Acanthamoeba* keratitis. *Invest. Ophthalmol. Vis. Sci.* 2007;48:ARVO E-Abstract 3234.
  25. Tu EY, **Joslin CE**, Shoff ME, Booton GC. Differential rates of isolation from two laboratories during an ongoing outbreak of *Acanthamoeba* keratitis. *Invest. Ophthalmol. Vis. Sci.* 2007;48:ARVO E-Abstract 753.
  26. **Joslin CE**, Tu EY, Shoff ME, Booton GC. Domestic tap water exposure and *Acanthamoeba* keratitis association. *Invest. Ophthalmol. Vis. Sci.* 2007;48:ARVO E-Abstract 752.
  27. Booton GC, **Joslin CE**, Shoff ME, Tu EY, Kelly D, Fuerst PA. Molecular Identification of *Acanthamoeba* sp. Isolates in an *Acanthamoeba* Keratitis Outbreak. XII International Conference on the Biology and Pathogenicity of Free-Living Amoebae. Wako, Japan 2007.

28. Shoff ME, **Joslin CE**, Booton GC, Tu EY, and Fuerst PA. Prevalence of *Acanthamoeba* in Chicago Area Tap Water. XII International Conference on the Biology and Pathogenicity of Free-Living Amoebae. Wako, Japan 2007.
29. Tu EY, Shoff ME, **Joslin CE**, Kubatko L, Fuerst PA. Investigation of the Role of a Taurine-Containing Lens Disinfection Solution in the Ongoing *Acanthamoeba* Keratitis Outbreak. OMIG Abstract 18. October, 2007.
30. Shoff ME, **Joslin CE**, Tu EY, Fuerst PA. Taurine effects on *Acanthamoeba* survival. Annual Meeting of the American Academy of Optometry, December 2007.
31. Tu EY, **Joslin CE**, Lee JA, Djalilian A. Recrudescence *Acanthamoeba* Keratitis Related to Persistent Contact Lens Wear. American Society of Cataract and Refractive Surgeons, April 2008.
32. **Joslin CE**, Tu EY, Anderson RJ, Davis FG. Shifting spatial-temporal distribution of Chicago area *Acanthamoeba* keratitis cases. UIC School of Public Health Student Research Forum and Awards Day, April 2008.
33. Verani J, Lorick S, Yoder J, Beach M, Braden C, Visvesvara G, Roberts J, Chang D, Park B, Bestudik J, Chen S, Saviola J, Jones D, Roy S, and the AK Investigation Team (**Joslin CE**). Multistate Outbreak of *Acanthamoeba* Keratitis Associated with Use of a Contact Lens Solution. Annual Epidemic Intelligence Service (EIS) Conference, April 2008.
34. Tu EY, **Joslin CE**, Sugar J, Shoff ME, Booton GC. Incidence and outcomes of penetrating keratoplasty during an outbreak of *Acanthamoeba* keratitis. *Invest. Ophthalmol. Vis. Sci.* 2008;49:ARVO E-Abstract 504.
35. **Joslin CE**, Tu EY, Shoff ME. Temporal *Acanthamoeba* keratitis case distribution and cumulative incidence rates. *Invest. Ophthalmol. Vis. Sci.* 2008;49:ARVO E-Abstract 848.
36. Dolocek TA, **Joslin CE**, McCarthy BJ, Davis FG, Campbell RT. Diet and Survival from Ovarian Cancer among Women in Cook County, Illinois. Society for Epidemiologic Research Annual Meeting, June 2008.
37. **Joslin CE**, Tu EY, Anderson RJ, Davis FG. Shifting spatial-temporal distribution of Chicago area *Acanthamoeba* keratitis cases. Society for Epidemiologic Research Annual Meeting, June 2008.
38. **Joslin CE**, Tu EY, Stayner LT, Davis FG. The association between showering with contact lenses and *Acanthamoeba* keratitis. American College of Epidemiology, September 2008.
39. **Joslin CE**, Tu EY, Shoff ME, Booton GC, Fuerst PA, Stayner LT, Davis. The Association between *Acanthamoeba* Keratitis and the presence of *Acanthamoeba* in water supplies sampled from the home. International Society for Environmental Epidemiology, October 2008.
40. **Joslin CE**, Tu EY, Stayner LT, Davis FG. The association between *Acanthamoeba* keratitis and showering with contact lenses. Annual Meeting of the American Academy of Optometry, October 2008.

41. **Joslin CE**, Tu EY, Shoff ME, Booton GC, Fuerst PA, Stayner LT, Davis. The Association between *Acanthamoeba* keratitis and contamination of water supplies. Annual Meeting of the American Academy of Optometry, October 2008.
42. Gupta S., Tu, EY, **Joslin CE**. *Acanthamoeba* keratitis and contact lens solutions: the recent University of Illinois at Chicago experience after the Advanced Medical Optics Complete Moistureplus solution recall *Invest. Ophthalmol. Vis. Sci.* 2009;50:ARVO E-Abstract 3114.
43. **Joslin CE**, Tu EY, Shoff ME. The association between *Acanthamoeba* keratitis and recent contact lens initiation. *Invest. Ophthalmol. Vis. Sci.* 2009;50:ARVO E-Abstract 5121.
44. Tu EY, **Joslin CE**, Shoff ME. Polymicrobial *Acanthamoeba* keratitis. *Invest. Ophthalmol. Vis. Sci.* 2008;49:ARVO E-Abstract 5936.

### Invited Presentations

1. Corneal Refractive Therapy. Illinois College of Optometry. September 10-13, 2002.
2. Scientific Session Moderator: Optics and Refraction. Annual Meeting of the American Academy of Optometry, December 4, 2003.
3. Higher Order Wavefront Aberrations in Corneal Refractive Therapy. Special World Summit Symposium on Corneal Refractive Therapy by Overnight Contact Lens Wear. Sponsored by Contact Lens Association of Ophthalmologists through an educational grant from Paragon Vision Sciences, in conjunction with the Annual Meeting of the Association for Research in Vision and Ophthalmology. April 29 – May 1, 2004.
4. Is “whole eye” wavefront analysis helpful to Corneal Refractive Therapy? Global Orthokeratology Symposium, Toronto, Canada, July 23, 2004.
5. Determining corneal power for IOL calculation in post-refractive surgery patients. Loyola University Chicago, Department of Ophthalmology, Chicago Subspecialty Guest Lecture Series, Maywood, IL, August 11, 2004.
6. Scientific Session Moderator: Contact lenses - design/fitting, complications, visual performance, aberrations. Annual Meeting of the American Academy of Optometry, December 12, 2004.
7. IOL Calculations following LASIK. Optometric Council on Refractive Therapy; pre-meeting to the American Academy of Optometry, December 6, 2006.
8. Panelist, Career Development Panel. University of Illinois at Chicago, School of Public Health, February 27, 2007.
9. Panelist, Training/Career Development Awards for Pre-Docs, Post-Docs and Junior Faculty. Annual Meeting of the American College of Epidemiology, September 17, 2007, Ft. Lauderdale, FL.

10. Scientific Session Moderator: Silicone hydrogel issues. Annual Meeting of the American Academy of Optometry, October 25, 2007.
11. Chicago-area Acanthamoeba Keratitis Outbreak. 25th Biennial Cornea Conference, Schepens Eye Research Institute, Harvard Medical School, Boston, Massachusetts. Sponsored by Schepens Eye Research Institute, Harvard Medical School; Mass Eye and Ear Infirmary; Tufts University Center for Eye Research and Boston University School of Medicine. October 12-13, 2007.
12. *Acanthamoeba* keratitis: Why in the eye? UIC School of Public Health Intersession presentation to Illinois Math and Science Academy. January 8, 2008.
13. *Acanthamoeba* keratitis: Contributing factors. Presentation to Northwestern University's Center for Talent Development for gifted high school students. UIC School of Public Health, March 28, 2008.
14. *Acanthamoeba* keratitis: Why the eye? Illinois Eye Fund Board of Directors Meeting, University of Illinois at Chicago, May 28, 2008.
15. Comments pertaining to contact lens care systems. Presented position statement on behalf of the American Academy of Optometry. Food and Drug Administration (FDA) Ophthalmic Devices Advisory Panel, Center for Devices and Radiological Health Advisory Committee, Washington, DC, June 10, 2008.
16. Scientific Session Moderator: Corneal Disease/Contact Lenses. Annual Meeting of the American Academy of Optometry, October 24, 2008.
17. Chicago-area Acanthamoeba Keratitis Outbreak. University of Houston College of Optometry, Periopsia Seminar Series, Houston, TX, December 2, 2008.
18. Chicago Area Acanthamoeba Keratitis Case-Control Study Update. Contact Lens Microbiology Workshop. Co-sponsored by the Food and Drug Administration (FDA) and professional organizations. January 22 – 23, 2009.
19. Acanthamoeba Keratitis: Challenges, Epidemiology and Risk Factors. Bausch & Lomb Scientific Advisory Board Meeting. January 29, 2009
20. Joslin CE. The epidemiology of *Acanthamoeba* keratitis. International Society of Contact Lens Researchers (ISCLR): invited speaker. Crete, Greece. August 2009.

#### **Invited Speaker for Continuing Medical Education**

21. Orthokeratology: A New Millennium? UIC Cornea Symposium, University of Illinois at Chicago, September 26, 2001.
22. Orthokeratology: How Good is it Today? UIC Cornea Symposium, University of Illinois at Chicago, March 5, 2003.
23. Higher Order Wavefront Aberrations in Corneal Refractive Therapy. UIC Resident-Alumni Day, University of Illinois at Chicago. June 11, 2003.
24. Corneal reshaping – good, bad, or other? Ophthalmology Update, Punta Cana, Dominican Republic. Sponsored by University of Illinois at Chicago, University of Iowa and Washington University St. Louis. April 1, 2005.

25. Determining corneal power and IOL calculation in post-refractive surgery patients. Ophthalmology Update, Punta Cana, Dominican Republic. Sponsored by University of Illinois at Chicago, University of Iowa and Washington University St. Louis. April 2, 2005.
26. Corneal power and IOL calculation in post-refractive surgery patients. UIC Resident-Alumni Day, University of Illinois at Chicago. June 8, 2005.
27. Chicago-area Acanthamoeba Keratitis Outbreak. UIC Resident-Alumni Day, University of Illinois at Chicago. June 7, 2006.
28. An update on the Chicago-area Acanthamoeba Keratitis Outbreak. UIC Cornea and Refractive Surgery Symposium. October 20, 2006.
29. *Acanthamoeba* keratitis – where do we stand now? UIC Alumni Day, University of Illinois at Chicago. June 22, 2007.
30. Chicago-area Acanthamoeba Keratitis Outbreak. UIC Cornea and Refractive Surgery Symposium. October 19, 2007.
31. An update on the Chicago area *Acanthamoeba* keratitis investigation. UIC Alumni Day, University of Illinois at Chicago. June 20, 2008.
32. *Acanthamoeba* keratitis – when will the outbreak end? UIC Cornea and Refractive Surgery Symposium. October 17, 2008.