

## Curriculum Vitae

**NAME:** Dimitri T. Azar, M.D.

**ACADEMIC RANK:** Field Chair of Ophthalmologic Research  
Professor and Head, University of Illinois at Chicago

### **CONTACT**

**INFORMATION:** Chairman, Department of Ophthalmology and Visual Sciences  
Illinois Eye and Ear Infirmary  
University of Illinois at Chicago  
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### EDUCATION/POST DOCTORAL TRAINING

1979 B.S. American University of Beirut, Lebanon  
1983 M.D. American University of Beirut, Lebanon  
1982-1983 Internal Medicine, American University Medical Center, Beirut, Lebanon  
1983-1986 Ophthalmology, American University Medical Center, Beirut, Lebanon  
1987-1990 Resident in Ophthalmology, Massachusetts Eye and Ear Infirmary/Harvard Medical School, Boston, MA.  
1990-1991 Chief Resident in Ophthalmology, Massachusetts Eye and Ear Infirmary Harvard Medical School, Boston, MA.

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### CLINICAL AND RESEARCH FELLOWSHIPS

1986-1991 Research Fellowship in Cornea-Morphology, Eye Research Institute Harvard Medical School  
1986-1988 Clinical Fellowship in Cornea and External Eye Diseases, Massachusetts Eye and Ear Infirmary/Harvard Medical School.

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## LICENSURE AND CERTIFICATION

2006	State of Illinois
1991	American Board of Ophthalmology
1992-2006	Fellow of the American Academy of Ophthalmology
1991-1997	State of Maryland, Board of Physician Quality Assurance
1987-	Commonwealth of Massachusetts, Board of Registration in Medicine
1985	FLEX, New York, components I and II
1982	ECFMG
1981-1982	National Board of Medical Examiners, parts I and II

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## ACADEMIC APPOINTMENTS

1990-1991	Instructor in Ophthalmology, Harvard Medical School
1991-1996	Assistant Professor of Ophthalmology, The Johns Hopkins University
1996	Associate Professor of Ophthalmology, The Johns Hopkins University
1996-2003	Associate Professor of Ophthalmology, Harvard Medical School (1998-2000: Professor Associé, Rothschild Foundation, University of Paris)
1996-1998	Associate Clinical Scientist, Schepens Eye Research Institute, Harvard Medical School
1999-2003	Associate Scientist, Schepens Eye Research Institute, Harvard Medical School 2003, Senior Scientist, Schepens Eye Research Institute, Harvard Medical School
2003	Professor of Ophthalmology, Harvard Medical School
2006	Professor and Head, University of Illinois at Chicago, Illinois Eye and Ear Infirmiry

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## HOSPITAL & LABORATORY APPOINTMENTS

1990-1991	Associate Chief of Ophthalmology for Residency Affairs, Massachusetts Eye and Ear Infirmiry, Boston
1990-1991	Assistant Director of Residency Training, Massachusetts Eye and Ear Infirmiry, Boston
1992-1996	Director, Keratorefractive Service, The Wilmer Institute, Johns Hopkins University, Baltimore
1991-1996	Director, Corneal Wound Healing Laboratory, Refractive Surgery, Johns Hopkins University

1996-2006 Corneal and Ocular Surface Works in Progress, Schepens Eye Research Institute, Boston  
1996-2004 Director, Contact Lens Service, Massachusetts Eye and Ear Infirmary, Boston  
1996-2006 Director, Corneal and Refractive Surgery Services, Massachusetts Eye and Ear Infirmary, Boston  
1999-2006 Fellowship Training Program (combined program)  
2003-2006 Surgeon, Massachusetts Eye and Ear Infirmary  
2006 Surgeon, University of Illinois at Chicago, Illinois Eye and Ear Infirmary

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#### AWARDS & HONORS

1991 Teacher of the Year Award, Massachusetts Eye and Ear Infirmary.  
1993 Teacher of the Year Award, The Wilmer Institute, Johns Hopkins University  
1996 Resident Teaching Recognition Award, The Wilmer Institute Johns Hopkins University.  
1997  
1998 American Academy of Ophthalmology Honor Award.  
1994-1996 Top Doctor, Baltimore Magazine, Baltimore, MD.  
1996 Voted among Top 10 U.S. Refractive Surgeons by Ophthalmology Times.  
1999, 2001 Top Doctor, Ophthalmology/Refractive Surgery, Boston Magazine.  
2003 Top Doctor, Ophthalmology, Boston Magazine.  
2004 American Academy of Ophthalmology Senior Achievement Award  
2005 Top 50 Opinion Leaders; Cataract & Refractive Surgery Today  
2005 Top 10 Ophthalmologists in Greater Boston area (Boston Herald Supplement)  
2007 Alcon Research Institute Award  
2007 Inclusion in “The Best Doctors in America” 2007-2008 Database  
[www.bestdoctors.com](http://www.bestdoctors.com)  
2007 America’s Top Doctor, Castle Connelly LTD.  
2008 Top Doctor, Ophthalmology, Chicago Magazine.  
2008 Qualified and Listed [Trusted LASIK Surgeons](#), a LASIK surgeons directory service that screens LASIK surgeons based on research, experience, and premier patient care

## MAJOR ADMINISTRATIVE RESPONSIBILITIES/ACCOMPLISHMENTS

### *Refractive Surgery Service at the Wilmer Ophthalmological Institute/Johns Hopkins University*

- 1992 Established Refractive Surgical Service at Johns Hopkins Hospital
- 1993 Established clinical and teaching program and Performed Incisional (Radial) Keratotomy procedure at the Wilmer Institute, Johns Hopkins
- 1994 Established clinical and teaching program and performed first microkeratome (ALK) surgery at the Wilmer Institute, Johns Hopkins
- 1996 Established program to perform PRK using FDA approved Summit laser treatment (GBMC)
- 1996 Performed first microkeratome-assist PK endothelial transplantation surgery
- 1996 Consultant, assisted VISX team in obtaining first FDA approval for PRK

### *Corneal and Refractive Surgery Services at the Massachusetts Eye and Ear Infirmary*

- 1996-2003 Recruitment of Drs Reza Dana, Kathryn Colby and Roberto Pineda to Cornea Service; Recruitment of Drs Roberto Pineda, Sonia Yoo (now at Bascom Palmer), Sandeep Jain, Amy Scally and Jill Beyer to Refractive Surgery Service; Reorganization of the Contact Lens Service and recruitment of Drs Sheri Morneault and Jill Beyer (current director) to Contact Lens Service.
- 1996-2005 Reorganized Corneal and Refractive Surgery Services

### *Fellowship training programs (Clinical and Research fellowships)*

- 1999-2004 Established a program at the Massachusetts Eye and Ear Foundation to fund new technology for the Corneal and Refractive Surgery Services
- 1999-2005 Reorganized open-access laser center at Mass Eye and Ear Infirmary
- 1996 Expanded clinical and teaching program on Summit Apex Plus PRK (FDA-approved treatment program)
- 1996 Established clinical and teaching program and performed first LASIK surgery at Massachusetts Eye and Ear Infirmary
- 1996 Performed first LASEK procedure worldwide (assisted by Dr. J. C. Abad)
- 1997 Established clinical and teaching program and introduced FDA-approved VISX laser surgery for myopic astigmatism at Massachusetts Eye and Ear Infirmary
- 1998 Introduced Summit Apex Plus laser for hyperopia and hyperopic astigmatism
- 1999 Introduced Hansatome and Moria Rotational Microkeratomes
- 2000 Expanded microkeratome (MK) teaching and introduced SKBM horizontal MKs
- 2001 Introduced ICRS (Intacs) surgery to Massachusetts Eye and Ear Infirmary Refractive Surgery Service

- 2002-2003 Introduced 3 aberrometers (Zywave, WaveScan, and Ladar Wave), and 3 wavefront-guided lasers (VISX S4, Ladarwave and Zyoptics) to Refractive Surgery Service
- 2002 Introduced Refractec CK surgery to Massachusetts Eye and Ear Infirmary Refractive Surgery Service
- 2004 Introduced Intralase femtosecond laser to Massachusetts Eye and Ear Infirmary Refractive Surgery Service
- 2005 Introduced Accommodating (Eyeonics) and Phakic (Verisyse) IOLs to Massachusetts Eye and Ear Infirmary
- Refractive Surgery Service at the University of Illinois Eye and Ear Infirmary*
- 2006 Established new satellite office, Millennium Park, to expand clinical services

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#### MAJOR COMMITTEE ASSIGNMENTS

##### *The Massachusetts Eye and Ear Infirmary/Harvard Medical School*

- 1989-1991 Residency Steering Committee
- 1990-1991 Eye Department Executive Committee
- 1990-1991 Residency Selection Committee
- 1990-1991 Quality Assurance Committee
- 1996-2002 Residency Steering Committee
- 1996-2006 Associate Chief of Ophthalmology & Director of First Floor Committee
- 1996-2001 Search Committee (Glaucoma, Plastics, Retina, General eye Service)
- 1997-1999 Joint Operating Room Committee
- 1998-2006 Practice Advisory Committee
- 2000-2001 Eye Service Executive Committee
- 2002-2004 Joint Operating Room Committee
- 2003-2006 Executive Committee of the Harvard Medical School Department of Ophthalmology

##### *The Schepens Eye Research Institute/Harvard Medical School*

- 1996-2006 Clinical Staff
- 1997-2000 Institutional Review Board Committee
- 1998-2000 Long Term Strategic Planning (Leadership Issue)
- 2000-2006 Fellowship Training Program and Committee

*The University of Illinois Eye and Ear Infirmary*

- 2006- Residency Steering Committee
- 2006- Personnel Committee
- 2006- Chiefs of Service
- 2006- MSP Board of Directors

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MEMBERSHIPS, OFFICES & COMMITTEE ASSIGNMENTS  
IN PROFESSIONAL SOCIETIES

- 1986- Association for Research in Vision and Ophthalmology
- 1986- American Academy of Ophthalmology
- 1987-1992 American Medical Association
- 1990-1992 Massachusetts Medical Society
- 1992- International Society of Refractive Keratoplasty
- 1990 American Society of Cataract and Refractive Surgery
- 1994-1995 SPIE-International Society of Optical Engineering, Massachusetts Eye and Ear Alumni Association
- 1994- New England Ophthalmological Society
- 1994- Association of University Professors for Ophthalmology, Chair, Mentoring Program
- 2006- Chicago Ophthalmological Society
- 2006- LIERI Lions Club
- 2006- Alumni Advisory Council, UIC Fight for Sight
- 2006- Eye Transplantation Foundation
- 2006- International Society for Refractive Surgery, USA Representative

*The Johns Hopkins Wilmer Alumni Association*

VisA study section (small grant ad hoc committees)

- 1995- National Eye Institute/National Institutes of Health
- 1992-1996 Assistant Editor, Journal of Refractive Surgery
  
- Congress of Researchers in Surgery & Technology
- 1997- International Council-ISRS

American Academy of Ophthalmology-Committee for Ophthalmic Technology Development  
 Cornea Program Committee, Association of Research in Vision and Ophthalmology  
 Editorial Board, Hong Kong Journal of Ophthalmology

2000 Advisory Council, Operation Eye Rescue

2001 Section Editor (Cornea); Current Opinion in Ophthalmology

2001 Vis A Study Section, National Eye Institute (ad hoc committee)

2001- Editorial Board, Review of Refractive Surgery

2001-2005 Chief Editor, MEJO

2001 Tissue Banks International National Medical & Scientific Advisory Committee

2001 Medical Advisory Board, Tissue Banks International

2002 Editorial Board, Contemporary Ophthalmology

2002 American Academy of Ophthalmology: Member of Basic and Clinical Science Course Sec. 14

1996-2003 Founder: Congress of Researchers in Eye Surgery and Technology (CREST) Society.

2001-2005 Founding Member: Claes Dohlman Cornea Society.

2001-2005 Founding Member: Dohlman Fellowship Award.

2006- ISRS – USA Representative

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PART II  
 Research, Teaching and Clinical Contribution  
 Narrative Report

Research Activities

My research activities have focused on two main areas:

1. Corneal wound healing, and role of Matrix Metalloproteinases in the cornea.
2. Mathematical modeling and optics in refractive surgery and presbyopic treatments.

My work on corneal wound healing started when I was a research fellow in Dr. Ilene Gipson's laboratory at the Schepens Eye Research Institute, studying epithelial-stromal interactions in the diabetic corneal model, keratectomy wounds and epikeratoplasty. My work at Johns Hopkins evolved to study the reassembly of corneal epithelial adhesion structures and corneal light scattering after excimer laser surgery.

The main focus of my current laboratory research activities is that of MMP expression in the cornea. This area overlaps with the area of corneal wound healing. We showed that MMPs are expressed during wound healing after excimer laser keratectomy and that they are involved in

epithelial accretion following deep excimer annular keratectomy. We hypothesized that MMPs are involved in the remodeling of corneal scars following photorefractive keratectomy. This work has been supported by a grant from the National Institute of Health funded in 1993. The second cycle of my NIH funding supported investigations of the role of MMPs in cleaving plasminogens and Type XVIII collagen (to generate angiostatin and endostatin, respectively) in the cornea and contributing to the maintenance of corneal avascularity after corneal injury. This work has led to my current NIH funding (years 11-15) which supports further studies investigating the role of MMP-14, a membrane-bound MMP, in corneal angiogenesis. We are currently developing tissue specific knock-out, and regulatable knock-in animal models to compliment our work utilizing corneal epithelial and keratocyte knock-in cell lines, expressing various MMP-14 mutations.

The second focus of investigation has been the application of mathematical modeling and optics to refractive surgery. This work includes: the visual impact of decentered laser treatments; the depth and volume of tissue removal associated with various profiles of hyperopic, myopic, and mixed astigmatic treatments; and corneal asphericity changes following excimer laser surgery. This work has led to recent theoretical models of the effect of theoretical treatment ablations on wavefront aberrations at various distances of gaze, an important consideration relevant to future treatment algorithms of presbyopia.

### Teaching

I organize and conduct the monthly corneal rounds, a two-hour conference preceded by patient examination (by residents, fellows and staff) providing in-depth discussion of interesting cases. I have also lectured at the Harvard Intensive Review Course of Ophthalmology and the Lancaster Course in Ophthalmology since 1996. In addition, I organize the bimonthly “Cornea Club” in which I meet with corneal fellows to discuss interesting cases in a non-structured manner.

I have lectured at several national and international meetings including the “Current Concepts in Ophthalmology” lecture series (organized by the staff of the Wilmer Ophthalmological Institute) and the American Academy of Ophthalmology meeting (as course director and/or instructor). I have been an invited speaker to several symposia, named lectures, and lecture series. My lectures have covered various aspects of clinical corneal diseases, management of topographical abnormalities after refractive surgery, corneal angiogenic privilege, and corneal wound healing after refractive surgery.

### Clinical Activities

My clinical activities focus on the management of corneal, anterior segment, and refractive surgical conditions. I have contributed novel surgical techniques in the fields of penetrating keratoplasty, refractive surgery, and sutured posterior chamber intraocular lenses. I have also introduced several surgical procedures to our Service (including Laser in Situ Keratomileusis, laser epithelial keratomileusis, intracorneal ring segment surgery, and refractive intraocular lenses) which allowed us to maintain a leading position in the rapidly evolving field of Refractive Surgery.

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## CLINICAL STUDIES



(Co-Investigator)

- 1997 Massachusetts Eye and Ear LASIK Study  
The Massachusetts Eye and Ear Infirmary Hyphema Study  
Refractive Status and Vision Profile (RSVP) Questionnaire  
National Eye Institute Refractive Error Questionnaire  
Massachusetts Eye and Ear Infirmary Fixation Speculum Study  
The Massachusetts Eye and Ear Infirmary Elevation Based Corneal Topography Study
- 1998 Massachusetts Eye and Ear Infirmary MDX-RA Study  
Urrets-Zavalía Syndrome: A meta-analysis of published case series and a review of MEEI cases  
Massachusetts Eye and Ear Infirmary Summit LASIK/High Myopia Non-Randomized LASIK Subset  
Massachusetts Eye and Ear Infirmary Hyperopic LASIK Study  
Hyperopic LASIK with Astigmatism with the Emphasis Disc Clinical Investigation
- 1999 Treatment of Non-Healing Corneal Epithelial Defects with Umbilical Cord Serum  
Metalloproteinase Expression in Ocular Pathologic Conditions  
An Evaluation of Topical Zinc Chloride in the Treatment of Viral Conjunctivitis
- 2000 Combined LASIK and ICRS for the Correction of Myopic Refractive Errors  
Evaluation of Effectiveness of a New Cornea Storage Medium  
Incidence of Posterior Vitreous Detachment Following LASIK  
Molecular Genetic Studies of Myopia, Hyperopia and Keratoconus  
1.5% Levofloxacin Bacterial Keratitis Studies  
Identification of Factors That Can Predict Dry Eye Complications of LASIK Surgery  
Investigation of the Role of Human Tears in the Pathogenesis of Acanthamoeba Keratitis
- 2001 Infrared Pupillometry and LASIK Surgery  
Treatment of Keratoconus with Intrastromal Corneal Ring Segments  
Diffuse Lamellar Keratitis: Incidence, Characteristics and Visual Outcomes  
Epithelial Survival after Epithelial Debridement During Photorefractive Keratoectomy  
Prospective Multicenter Clinical Study to Evaluate the Use of the Orbscan II in the Calculation of Lens Power for the Model L161U Intraocular Lens in Patients Undergoing Routine Cataract Extraction
- 2004 Photochemical Keratodesmos for Closure of Clear Corneal  
Cataract Incisions

## SELECTED PATENTS & INVENTIONS

Azar DT, Inventor; Wilmer Eye Institute, assignee. Excimer laser ablation within Bowman's Layer. US patent 5,643,919. 1997 Jun 3.

Azar DT, Co-inventor, Massachusetts General Hospital, assignee. Photochemical tissue bonding. US patent approved.

Azar DT, Co-inventor, Massachusetts Eye and Ear Infirmary, Schepens Eye Research Institute, assignees. Bimanual Phacoemulsification. Patent approved.

Azar DT, Inventor, Massachusetts Eye and Ear Infirmary and Schepens Eye Research Institute, assignees. Accommodating IOL. US patent 6,638,304. 2003 Oct 28

Azar DT, Inventor, Massachusetts Eye and Ear Infirmary and Schepens Eye Research Institute, assignees. Automated LASEK Device. US patent 6,758,852 B1. 2004 Jul 6

Azar DT, Inventor, Massachusetts Eye and Ear Infirmary and Schepens Eye Research Institute, assignees. Separating epithelium from Stroma in LASEK Surgery. US patent 7,015,039. 2006 March 21

Azar DT, Inventor, Massachusetts Eye and Ear Infirmary and Schepens Eye Research Institute, assignees. Intraocular Lens Positioning. US patent 7,229,476. 2007 June 12

Azar DT, Inventor, Massachusetts Eye and Ear Infirmary and Schepens Eye Research Institute, assignees. Polarization-Sensitive Vision Prosthesis. 2007 September 18.

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## RESEARCH FUNDING INFORMATION

### Past

1986	Chibret International Award (national winner)
1986-1987	Fogarty International Research Fellowship Award- PI
1987-1988	Fight for Sight Postdoctoral Research Fellowship Award- PI
1994-1995	Fight for Sight Research Award- PI, Prismatic Photokeratectomy
1994-1995	Tissue Banks International Research Award, PI 1992-1993 ARVO Alcon Award Fight for Sight Research Sponsorship
1992-1993	Johns Hopkins Institutional Research Award- PI
1993-2003	NIH Grant, NEI # 10101 -01 to -10, PI "Metalloproteinases in Corneal Wounds"
1997-1999	Lions Eye Research Grant, "Corneal Wound Healing"
1997-1999	National Eye Institute Refractive Error Correction Questionnaire Grant
1997-2005	New England Corneal Transplant Research Grant "Corneal Wound Healing after Refractive Surgery"

- 1998-2005 Research to Prevent Blindness Lew R. Wasserman Merit Award
- 2001-2006 Massachusetts Lions Eye Research Fund Grant  
 “Matrilysin: Regulation and Role in Corneal Wound Healing, Avascularity, and Host Defenses against Infectious Keratitis”.
- 2001-2006 TATRC (US Army Medical Grant) “LASIK-Associated Dry Eye Disease”.

**Current**

- 2003-2007 NIH R01 EY014048  
 “Collagen XVIII in Corneal Neovascularization”
- 2003-2008 NIH Grant, NEI # 10101 -11 to -15, PI  
 “Metalloproteinases in Corneal Wounds”  
 Fundable priority score of 124 (0.8<sup>th</sup> percentile)

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NAMES OF ADVISEES OR TRAINEES

1991-1992	Wallace Chamon, MD	Corneal Surgeon	Scaula Paulista Sao Paulo, Brazil
1991-1992	Paolo Rama, MD	Corneal Surgeon	Milan, Italy
1991-1992	Yonca Akova, MD	Associate Professor BasGent Univ.	Ankara, Turkey
1992-1993	Kerry Solomon, MD	Associate Professor Medical University of South Carolina	Charleston, SC
1992-1993	Terry Hufnagel, MD	Director Corneal Laser Center	Long Island, NY
1993-1994	Janine Smith, MD	Deputy Clinical Director National Eye Institute	Bethesda, MD
1993-1994	Gregory Ogawa, MD	Director, Cornea Service Univ. of New Mexico	New Mexico
1993-1994	Richard Braunstein, MD	Assoc. Clinical Professor Columbia University	New York
1993-1995	Tae Won Hahn, MD	Associate Professor Catholic University	Seoul, South Korea
1994-1995	Tat Keong Chan, MD	Consultant,	Singapore

		Singapore Eye Center	
1994-1995	Jeffrey Minkovitz, MD	Corneal Surgeon	Wilmington, DE
1994-1995	Daniel Sambursky, MD	Corneal Surgeon	Binghamton, NY
1994-1995	Joseph Pasternak, MD	Corneal Surgeon Bethesda Naval Hospital	Bethesda, MD
1994-1995	Johnny Khouri, MD	Director, Refractive Surg. Dept. of Ophthalmology American Univ. of Beirut	Beirut, Lebanon
1995-1996	Shu Wen Chang, MD	Associate Professor Chung Gung Memorial Hospital	Taipei, Taiwan
1995-1996	Nada Jabbur, MD	Associate Professor Wilmer Institute Johns Hopkins Univ.	Baltimore, MD
1995-1996	Farooq Ashraf, MD	Corneal Surgeon	Atlanta, GA
1995-1996	Riad Shalash, MD	Associate Professor Cairo University	Cairo, Egypt
1996-1997	Amyna Merchant, MD	Assistant Professor Agha Khan Univ.	Karachi, Pakistan
1996-1997	Glenn Cockerham	Retired Colonel Corneal Surgeon	Pittsburgh, PA
1996-1997	Juan-Carlos Abad, MD	Corneal Surgeon Clinica Medellin- Pobjado	Medellín, Columbia
1996-1998	Tad Baum, MD	Corneal Surgeon	Ayer, MA
1997-1998	Sonia Yoo, MD	Associate Professor Bascom Palmer Eye Institute	Miami, FL
1997-1999	Paul Lu, MD	Chair, Dept. of Ophthalmology Chung Gung Memorial Hospital	Chai-Yi, Taiwan
1997-1999	Kathryn Colby	Director of Clinical Research	Boston, MA

		Center Mass Eye and Ear Infirmary	
1997-1999	Farzad Yagouti, MD	Director, Laser Center	San Diego, CA
1998-1999	Everardo Hernandez, MD	Assistant Professor	Mexico City, Mexico
1998-2000	Samir Melki, MD, PhD	Mass Eye and Ear Infirmary	Boston, MA
1998-2000	Stephen Stechschulte, MD	Cornea Surgeon	Kansas City, MO
1999-2001	Jonathan Primack, MD	Corneal Surgeon Long Island Jewish Medical Center	Great Neck, NY
1999-2001	Hsin-Chiung Lin, MD	Corneal Surgeon Chung Gung Memorial Hospital	Taipei, Taiwan
1999-2001	Natalie Afshari	Duke Eye Center	Durham, North Carolina
1999-2001	Sandeep Jain, MD	Instructor, Harvard Medical School	Boston, MA
1999-2001	Eric Gabison, MD	Ophthalmology Resident University of Paris	Paris, France
1999-2001	Takuji Kato, MD	Juntendo University	Tokyo, Japan
2000-2002	Jae Bum Lee, MD	Associate Professor Yonsei University	Seoul, South Korea
2000-2002	Chun Chen Chen, MD	Assistant Professor Taiwan, University	Taipei, Taiwan
2000-2001	Robert Ang, MD	Corneal Surgeon	Manilla, Philippines
2000-2001	Bilal Khan, MD	Ophthalmology Resident Massachusetts Eye and Ear Infirmary	Boston, MA
2000-2002	Shahzad Mian, MD	Director Residency Training Kellogg Eye Center	Ann Arbor, MI
2000-2002	Jae Bum Lee, MD PhD	Associate Professor	Seoul, South Korea

		Yonsei University	
2000-2002	Kimberly Sippel, MD	Corneal Surgeon	Boston, MA
2000-2002	Victor Perez, MD	Cleveland Clinic	Cleveland, OH
2000-2002	Eric Dudenhoeffer, MD	Wilford Hall U.S. Airforce	San Antonio, TX
2001-2003	Ahn Nguyen, MD	University of Montreal	Montreal, Canada
2001-2003	Mahnaz Nouri, MD	Corneal Surgeon	Boston, MA
2001-2003	Patrick Yeh, MD	Corneal Surgeon	Los Angeles, CA
2001-2003	Elias Jarade, MD	Corneal Surgeon	Dubai, U.A.E.
2002-2003	Li-Ju Chen, MD	Municipal Taipei Hopping Hospital	Taipei, Taiwan
2002-2004	Scott Barnes, MD	Womack Army Medical Center	Fort Bragg, NC
2002-2004	Joseph Ma, MD	University of Toronto	Toronto, Canada
2002-2004	Puwat Charukamnoetkanok, MD	UPMC Eye Center	Pittsburgh, PA
2002-2004	Joseph Ma	University of Toronto	Toronto, Canada
2003-2004	Shu-I Yeh, MD	Mackay Memorial Hosp.	Taipei, Taiwan
2003-2004	Varintorn Chuckpaiwong, MD	Ramathibodi Hospital	Bangkok, Thailand
2003-2004	Elizabeth Escalona, MD	Pando Ferrer Ophthalmologic Hospital de Cuba	Cuba
2003-2004	Rama Rajagopal, MD	C.U. Shah Ophthalmic Post-Graduate Training Centre	Chennai, India
2003-2005	Mark Rosenblatt, MD	Mass Eye and Ear	Boston, MA
2003-2004	Shu-I Yeh, MD	Mackay Memorial Hospital	Taipei, Taiwan
2003-2005	Elena Albe, MD	Instituto Clinico Humanitas	Milano, Italy

2004-2005	Fabio Casanova, MD	Federal University of Sao Paulo	Recife, Brazil
2004-2005	Ula Jurkunas, MD	Mass Eye & Ear Infirmary	Boston, MA
2005-2006	Audrey Chan	Mass Eye and Ear	Boston, MA
2005-2007	Jose De la Cruz, MD	Director Comprehensive Ophthalmology Services, UIC Illinois Eye and Ear Infirmary	Chicago, IL
2005-2006	Mona Harissi-Dagher, MD	Mass Eye & Ear Infirmary	Boston, MA
2005-2007	Faisal Tobaigy, MD	Assistant Professor	College of Medicine Jazan University Jazan, Saudi Arabia
2007-	Jae Yong Kim, MD	Assistant Professor University of Ulsan College of Medicine Asan Medical Center	South Korea
2007-2008	Janet Lee, MD	Clinical Fellow University of Illinois	Chicago, IL
2007-2008	Jules Winokur, MD	Clinical Fellow University of Illinois	Chicago, IL
2006	Leonard Ang, MD	Assistant Professor Consultant, Cornea and External Eye Disease Service Singapore National Eye Centre	Singapore
2007	David Fahd, MD	American University of Beirut	Lebanon
2005-2006	Ramon Ghanem, MD	Corneal Surgeon	Sao Paulo
2005	Joel Javier, MD		Phillippines
1999	Tomoko Kure, MD		
2006-2007	Waleed Mahran, MD		Egypt
2006-2007	Tatsuya Mimura, MD		Tokyo

2006-2008	Tatsuya Onguchi, MD	Research fellow University of Illinois	Chicago, IL
2000	Prasad Panthagani, MD		
2000	Cinthia Proano, MD		Ecuador
2006	Toru Sakimoto, MD		Tokyo
2006	Rony Sayegh, MD	University of Maryland	Maryland
2005-2007	Kojima Takashi, MD		Tokyo
	Suphi Taneri, MD		Munster, Germany
	Joseph Torras, MD		Spain
	Chi-Wei Wu, MD		UIC
	Hong Ye, MD	NEI	Washington DC
	Alice Yu, MD		
2005	Tae Im Kim, MD	Assistant Professor	Yonsei University, College of Medicine Seoul, South Korea
2007	Antony Poothullil, MD	3600 N Interstate Ave	Portland, OR

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## TEACHING

### *(Selected Lectures and Courses)*

Massachusetts Eye and Ear Infirmary/ Harvard Medical School

1991- 2007	<b>Lancaster Course in Ophthalmology</b> Course coordinator 105 first and second year Ophthalmology Residents 9 week course/year
1991	<b>Pediatric Ophthalmology</b> Course Director 100+ Ophthalmologists and Pediatricians 8 hours/year
1991	<b>Advances in Ocular Drug Therapy</b>



Course Director  
100 Ophthalmologists and Residents  
8 hours/year

1991, 96-2005 **Cornea and External Disease Lecture Series**  
Lecturer  
60-70 Ophthalmology Residents  
2 to 6 hours/year

1996-2005 Lancaster Course  
Lecturer, Co-director of Cornea Section

1996-2003 **Harvard's Intensive Review of Ophthalmology**  
Course Lecturer, Optics and Cornea Sections

2000, 2003 **Kevin Hill Course in Ophthalmology**  
Course Director, Cornea/Refractive Surgery  
Lecturer, Cornea/External Diseases

The Wilmer Ophthalmological Institute/ Johns Hopkins University

1991-1996        **Cornea/Refractive Surgery, Current Concepts in Ophthalmology**  
Chairman and Lecturer  
80 to 200 Ophthalmologists; 2-3 hour lectures/year

1996-2003, 2007 **Cornea/Refractive Surgery, Current Concepts in Ophthalmology**  
Lecturer  
1-3 hour lectures/year

American Academy of Ophthalmology

1994-2004        **Cataract and Refractive Surgery Update**  
Instructor  
100-200 Ophthalmologists annually

1995-2007        **Phototherapeutic Keratectomy**  
Course Director  
60-140 Ophthalmologists annually

1995-1997        **Essential Optics for Keratorefractive Surgeons**  
Course Director

1997-1999        **Corneal Challenges**  
Instructor

1997-2000        **Incisional and Laser Astigmatic Surgery**  
Instructor

1999-2000        **Oops:**  
**The Most Common and Serious Corneal Keratorefractive Complications**  
Course Director

2000-2002        **Treatment of Ocular Surface Disease.**  
Instructor

2000-2002        **Posterior Lamellar Keratoplasty**  
Course Director

2000-2003        **101 Pearls in Refractive, Cataract and Corneal Surgery**  
Instructor

2000-2002        **Refractive Corneal Retreatments**  
Instructor

- 2000-2003      **LASEK**  
Instructor
- 2001-2003      **Corneal Transplantation Update**  
Instructor
- 2004            **Current Topics in Refractive Surgery: Highlights of the BCSC 14**  
Instructor
- 2006            **Phototherapeutic Keratectomy for the Treatment of Anterior Corneal Pathology**  
Instructor
- 2006            **Surgical Treatment of Corneal Disease**  
Instructor
- 2006            **Keratoconus & Corneal Ectatic Disease: Developments in Early Diagnosis and Surgical Management**  
Instructor
- 2006            **Cataract & Refractive Surgery Update**  
Instructor
- 2006            **Corneal and Anterior Segment Surgical Challenges**  
Instructor
- 2006            **Current Topics in Refractive Surgery: Highlights of the CSC 13**  
Instructor

Selected Invited Presentations:

- 1986            Speaker; The International Congress of Ophthalmology, Rome
- 1987, 1993      Speaker; The Eye Research Institute Cornea Conference
- 1987-2000      Speaker; The Association for Research in Vision and Ophthalmology
- 1987-2000      Speaker; The American Academy of Ophthalmology
- 1990            Invited speaker; "The Diabetic Cornea" Georgetown University Center for Sight
- 1991            Invited speaker; The Course: Innovations in Clinical Ophthalmology
- 1992, 1994      Invited speaker; The Eye Bank Association of America Meeting
- 1993            Invited speaker; The Castroviejo Cornea Society Grand Rounds: "Management of Anterior Segment Trauma" George Washington University  
Invited speaker; "Corneal and Iris Trauma." National Eye Institute.

- 1993-1995 Invited speaker; “Radial Keratotomy” and “PRK for Surgically-Induced Astigmatism” The Greater Baltimore Medical Center
- 1994 Speaker; The International Society of Refractive Keratoplasty  
 Invited speaker; “Refractive Surgery” and “PRK for RK and for surgically-induced astigmatism” The Maryland Society of Eye Physicians and Surgeons  
 Invited speaker; “Radial Keratotomy” and “Excimer Laser Surgery” The Maryland Optometric Society Meeting  
 Invited speaker; “Refractive Surgery: Introduction & Update” George Washington University  
 Invited speaker; “Keratomileusis and ALK” The Sinai Hospital  
 Invited speaker; “Recent advances in Refractive Surgery” The Delaware Medical Society  
 Invited speaker; “Refractive Surgery” Pennsylvania Optometric Society meeting  
 Invited speaker; “Management of Haze after PRK” and “What’s not: RK for High Myopia” ISRG Pre Academy Meeting
- 1995 Invited speaker; “Radial Keratotomy.” A Day of CME at Milford Memorial Hospital  
 Speaker; “Corneal Wound Healing after Excimer Keratectomy.” American Academy of Ophthalmology
- 1996 Invited speaker; “Corneal Light Scattering after PRK and ALK,” “Contrast Sensitivity after RK,” Conservative Refractive Surgery. Should Emmetropia be our goal?” XIX International Symposium Moacyr Alvaro-Advances in Refractive Surgery, São Paulo, Brazil  
 Invited speaker; “Radial Keratotomy/Conservative RK: Undercorrection: Foe or Friend,” “Excimer Laser/Wound Healing,” and “LASIK and ALK.” Current Concepts in Ophthalmology, Vail, CO  
 Invited speaker; “Corneal Light Scattering after PRK and Keratomileusis,” “Corneal Wound Healing after PRK and PTK,” “PTK-Clinical Results,” and “Review of Corneal Infections after RK.” Annual Meeting for the Washington Academy of Eye Physicians and Surgeons  
 Speaker; “Surgically-induced Prismatic and Refractive...” and “Corneal Topography I.” ARVO Annual Meeting. Fort Lauderdale, Florida.  
 Invited speaker; “Advances in Refractive Surgery.” 55<sup>th</sup> Annual Wilmer Residents Association Meeting. Baltimore, MD.  
 Invited speaker; “Patient Examination in Corneal and External Diseases,” “Management of Recurrent Erosion Syndrome and PED,” Corneal Dystrophies Overview,” “Immunology of Ocular Allergy and External Disease,” and “Bacterial Keratitis.” The Hong Kong Hospital Authority Ophthalmic Services.  
 Invited speaker; “Excimer Laser PRK after RK,” and “Wound Healing.” International Symposium on Laser Surgery. Security Forces Hospital, Riyadh, Kingdom of Saudi Arabia

Invited speaker; “Radial Keratotomy,” “Excimer Laser/Wound Healing,” and “LASIK and ALK,” “Refractive Keratoplasty.” Puerto Rico Current Concepts Faculty, Dorado, Puerto Rico

1997 Invited speaker; “Cornea Dystrophies and Anomalies” Osler Institute  
Invited speaker; “Anterior Segment Optics” University of Toronto Visiting Professors Programme  
Invited speaker; “LASIK vs. PRK: Review of the Literature” ISRG Pre Academy Meeting

1998 Invited speaker; “Corneal Topographic Changes After PRK and LASIK,” “PARK for Astigmatism: How Does It Compare to PRK or LASIK?” “PRK after RK,” and “Management of Decentration, Haze and Central Islands after PRK and LASIK” Current Concepts in Ophthalmology, Vail, CO

Invited speaker; “Phototherapeutic Keratectomy,” Asia Pacific Society of Cornea and Refractive Surgery, Singapore

Speaker; “Management of IOL Complications,” “Postoperative Complications in Refractive Surgery,” and “Management of Lamellar Corneal Surgery Complications” ASCRS, San Diego, CA

Invited speaker, “LASIK vs. PRK: The Bull Market Dilemma.” Wilmer Nurses’ Conference, Baltimore, MD

Invited Speaker; “Management of LASIK and PRK Complications”: Georgetown University

Invited Speaker; Inaugural Scientific Meeting of the Asia Pacific Society of Cornea and Refractive Surgery, Singapore

1999 Invited Speaker; “Management of PRK and LASIK Complications” Japanese Ophthalmic Society

Invited Speaker; “Management of Decentrations, Central Islands and Haze Following LASIK and PRK,” Hoover Naquim Symposium

Invited Speaker; “Refractive Surgery Update,” Scheie Eye Institute, Philadelphia

Invited Speaker; Hoover Naquim Symposium, Baltimore, MD

Speaker; Lancaster Course in Ophthalmology, Waterville, ME

Invited Speaker; “Possible Antiangiogenic Role of Angiostatin in the Cornea after Wounding” 21<sup>st</sup> Schepens Bi-annual Cornea Conference, Boston, MA

Invited Speaker; “Management of PRK/LASIK Complications” and LASIK Indications and Techniques” New York State Ophthalmology Society, NY

Invited Speaker; Columbia University, New York

Invited Speaker; “Management of LASIK Complications” Massachusetts Society of Optometrists, Marlborough, MA

Invited Speaker; “Etiology and Management” New England Ophthalmological Society, Boston, MA

Invited Speaker; "Update of Excimer Lasers and its Future Role in Refractive Surgery," "Treatment Options for High Hyperopia," "Prevention and Management of PRK Complications," and "LASIK: Indications and Techniques" Philippines Academy of Ophthalmology

Invited Speaker; "Current Corneal Topographic Imaging Techniques." Current Concepts in Ophthalmology. The Wilmer Institute, Baltimore, MD

Speaker; "LASIK Video Grand Rounds: Complication Management." American Society of Cataract and Refractive Surgery (ASCRS). Seattle, WA.

Invited Speaker; "Management of PRK and LASIK Complications." Ophthalmological Society Annual Meeting; Current Concepts in Refractive Surgery. New York.

Invited Speaker; "PRK/LASIK: Indications and Techniques." "Management of PRK/LASIK Complications," "Molecular Basis of Corneal Neovascularity and Clarity after Refractive Surgery," and "Intracorneal Rings and Phakic IOLs." Scheie Eye Institute, U Penn Health System, Department. Philadelphia, PA.

2000 Speaker; "EyeNet Audio Interview" American Academy of Ophthalmology

Invited Speaker; "Management of LASIK Complications," and "Molecular Basis of Corneal Clarity and Avascularity after Refractive Surgery." German-French Symposium. Klinik Und Poliklinik Für Augenheilkunde, Campus Virchow Klinikin, Germany

Keynote Speaker; "Corneal Angiogenic Privilege." Société Française d'Ophthalmologie. Paris, France.

Invited Speaker: "Molecular Basis of Corneal Clarity and Avascularity after Refractive Surgery" New York Presbyterian Hospital, New York

2001 Invited Speaker; "LASIK Indications and Techniques," "Diffuse Lamellar Keratitis Pathologies and Management," "Scanning Slit Lamp Topography and Posterior," and "Management of Topographical Abnormalities after PRK and LASIK." Current Concepts in Ophthalmology. Dorado, Puerto Rico.

Invited Speaker; "LASIK Surgery: Maximizing Success," "When Should Non-LASIK Refractive Surgery be Considered?" University of Minnesota Department of Ophthalmology

Speaker, "Management of Topographical Abnormalities after PRK and LASIK," "LASIK: Indications and Techniques." World Vision Symposium 2001, Orlando, FL

Invited Speaker: "Simultaneous Corneal Laceration Repair, Cataract Removal, and PC IOL," "Treatment Options for Hyperopia and Hyperopic Astigmatism," "LASEK Indications and Techniques." 18<sup>th</sup> Congress of the Asia-Pacific Academy of Ophthalmology, Taipei, Taiwan

Invited Speaker: "Trauma", "Management of Topographical Abnormalities after PRK & LASIK." R.I Grand Rounds, Rhode Island Hospital, Providence, RI

Invited Speaker: "LASIK Indications", "Management of LASIK Complications", Molecular Basis of Corneal Clarity", Pittsburgh Ophthalmology Society Spring Meeting, Pittsburgh, PA

Invited Speaker: "New developments in LASIK technique", "What is LASEK", "Current thoughts on PRK", "Difficult Procedures: What was learned from problematic cases, Complication management", "MultiSite Case Histories: Interesting MLS cases for discussion". MultiSite Vision Alliance Meeting. Boston, MA

Presenter: "Survival of Corneal Epithelial and Endothelial Cells", "In Vivo Photochemical Keratodesmos in Corneal Incisions and Penetrating Keratoplasty Wounds", "Corneal Infections in Matrix Metalloproteinase Deficient Mice", "Characterization of Anti-Angiogenic Precursor Collagens, Types XV and XVIII in Murine Cornea: Role of MMP-7", In Vitro Characterization of Angiostatin-Like Molecules in Epithelial Cell-Keratocyte Interactions", "Corneal Angiogenesis in Gelatinase A-Deficient Mice", "Enhanced Expression of Human Metalloelastase in Ocular Surface Disorders", "Transactivation of Matrilysin and Beta Defensin-2 Upon Bacterial Challenge in Human Corneal Epithelial Cells", "Diffuse Lamellar Keratitis: Incidence, Characteristics, and Visual Outcomes". The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL

Invited Speaker: "Corneal Asphericity Changes after Refractive Surgery", "Limitation of LASIK", PAACO-LOS Congress 2001, Beirut, Lebanon

Invited Speaker: "LASIK Surgery: Maximizing Success", "Treatment Options for Hyperopia and Hyperopic Astigmatism", Annual Buffalo Ophthalmology Conference, Buffalo, New York.

Invited Speaker: "Hints and Kinks in Doing Potentially Problematic LASIK", "LASIK Management of Mixed and Hyperopic Astigmatism", "Refractive Surgery for Keratoconus-Is it Reliable?"; "Update on Dry Eyes", "Stem Cell Transplantation and Amniotic Membrane Surgery-A Revolutionary Concept," "Eight Pearls in Prevention and Management of LASIK Complications", "Five Pearls in Limbal Stem Cell Transplantation", "Three Pearls in Amniotic Membrane Grafting", 73<sup>rd</sup> Annual Ophthalmology Spring Postgraduate Conference, "Recent Advances in Cornea, External Disease, and Refractive Surgery", University of Michigan W.K. Kellogg Eye Center, Ann Arbor, MI

Invited Speaker: "LASIK Complications", "LASEK: Evolution, Technology and Results", "Corneal Asphericity Changes after Refractive Surgery", "Wavefront Advantages and Current Limitations", "Corneal Angiogenic Privilege", "Treatment of Mixed & Hyperopic Astigmatism", Cornea Y Refractiva, Cancun, Mexico

Invited Speaker: "LASEK Evolution and Techniques", Nantucket Cornea, Nantucket Island, Massachusetts

Invited Speaker: "Laser Subepithelial Keratomileusis", Ophthalmology in the 21<sup>st</sup> Century, Brewster, MA

Invited Speaker: "LASEK Evolution and Techniques", "Molecular Basis of Corneal Angiogenic Privilege", Southwestern Medical Center, Dallas, TX

Invited Speaker: "Management of LASIK Complications", New Hampshire Optometric Association, Inc., Bretton Woods, NH

Invited Speaker: "Management of Hyperopia, Hyperopic Astigmatism & Mixed Astigmatism" Mass. Society of Optometrists, Westborough, MA

Speaker: "Overview of Treatment Profile for Mixed Astigmatism", "LASEK: Flap PRK-Do the Advantages Outweigh the Disadvantages", American Academy of Ophthalmology, New Orleans, LA

2002

Invited Speaker: "LASEK Evolution and Techniques, "Molecular Basis of Corneal Clarity", "Topographical Abnormalities after LASIK" Kansas City Society of Ophthalmology and Otolaryngology, Overland Park, Kansas

Invited Speaker: "Corneal Endothelial Transplantation", New England Ophthalmological Society, Inc., Boston, MA

Speaker: "LASEK Corneal Anatomy (How Does Alcohol Work?)", "Surgical Techniques" First International LASEK Congress, Houston, TX

Invited Speaker. "Dry Eye after LASIK", New England Ophthalmological Society, Inc., Boston, MA

Invited Speaker: "Laser Subepithelial Keratomileusis (LASEK) Indications, Mechanism of Action, Surgical Technique and Outcomes", "Corneal Angiogenic Privilege", "LASIK Indications and Techniques",. Dean A. McGee Eye Institute, Oklahoma City, OK

Invited Speaker: "Management of LASIK Complications", "Molecular Basis for Corneal Clarity and Avascularity after Refractive Surgery", "LASEK: Evolution and Techniques", "Wavefront-Assisted Custom Corneal Treatment", "Management of IOL Complications", Chicago Ophthalmological Society, Chicago, IL

Presenter: "Endostatin-like Molecule Generated by Matrilysin Cleavage of Collagen Type XVIII Inhibits Vascular Endothelial Cell Proliferation", "Gene Transfer into Mouse Corneal Epithelial Cell Lines Using an Ecdysone Regulated Ecotropic Retroviral Vector System", "Basics of Custom Cornea", "Clinical Outcomes", "Limitations", The Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL

Speaker "Complications of Refractive Surgery from a Cornea Specialist's Perspective", "Controversies in New Treatment Modalities: LASEK (Pro Argument), "Alcohol and Epithelial Flap Viability", "Epithelial Defects after LASIK", American Society of Cataract & Refractive Surgery (ASCRS), Philadelphia, PA

Invited Speaker: "Scanning and Tracking Laser Technology", "Understanding Laser Correction of Astigmatism", Excellence in LASIK Lecture Series, New Haven, CT

Speaker: "Refractive Surgery Overview Principles", "Corneal Topography Wavefront and Instrumentation", "Blunt Ocular Trauma", "Perforating Trauma", "Keratoplasty: Indications, Techniques, and Complications", "Phototherapeutic Keratectomy", Lancaster Course, Waterville, ME



Invited Speaker: "LASEK Evolution & Techniques", "Management of LASIK Complications", "Corneal Angiogenic Privilege and Neovascularization", XXV Mexican National Ophthalmologic Meeting, Morelia, Mich. Mexico

Invited Speaker: "Profiles of Ablation of LASIK treatment of Astigmatism", "LASEK vs. LASIK in high Myopia", "Spherical Aberrations after LASIK", Excellence in LASIK, Lake George, NY

Invited Speaker: "Corneal Wound Healing/Physiology", "Management of LASIK Complications", "Epi-LASIK Indications, Outcomes, Techniques and Biology", "Monovision", Frontiers in Refractive and Anterior Surgery, Pepose Vision, St. Louis, MO

Speaker: "Excimer Laser Phototherapeutic Keratectomy for Anterior Corneal Pathology", "Outcomes of LASIK Retreatment and of Decentered PRK Treatments", "The Case for LASIK vs. LASEK", "Preoperative Considerations for Successful Corneal Transplantation", "Combined ICRS and LASIK (IC-LASIK) for High Myopia and Thin Corneas", "Alcohol and Epithelial Flap Viability", American Academy of Ophthalmology Meeting, Orlando, FL

Invited Speaker: "LASIK Indications and Techniques", "Topographical Abnormalities after LASIK", "LASEK: Evolution & Techniques", "Molecular Basis of Corneal Clarity after Refractive Surgery", "Wavefront Assisted Custom Corneal Treatments", "IC-LASIK: A New Surgical Technique for High Myopia", "Deep Lamellar and Endothelial Keratoplasty Techniques", Henan Institute of Ophthalmology, Zhengzhou, China

2003 Invited Speaker: "PRK, LASIK, Astigmatic Corrections & Spherical Aberrations", Manhattan Eye, Ear & Throat Hospital, New York, NY

Invited Speaker-"Corneal Wound Healing Following Refractive Surgery" Alcon Research Institute Symposium, Ft. Worth, TX

Invited Speaker-"LASEK Evolution and Technique", "Corneal Angiogenic Privilege", "Epithelial Masquerade Syndrome", "IC-LASIK: Combined ICRS and LASIK for High Myopia", Washington Academy of Eye Physicians and Surgeons, Seattle, WA

Invited Speaker-"Corneal Angiogenic Privilege", Grand Rounds, Yale University Department of Ophthalmology, CT

Invited Speaker- "LASEK anatomy-how alcohol works", "LASEK modifications and pearls", "Wound healing: The challenge of LASEK and advanced surface ablation", 2<sup>nd</sup> International LASEK & Advanced Surface Ablation Congress, Cleveland, OH

Speaker-"Using the Excimer Laser to Treat Corneal Diseases", "Update on Corneal Dystrophies", "Blunt Ocular Trauma", "Penetrating Trauma and Anterior Segment Reconstruction", Lancaster Course, Waterville, ME

Invited Speaker-"Mitomycin C for Prophylaxis of Corneal Haze in Photorefractive Keratectomy", New England Ophthalmological Society, Inc, Boston, MA

Speaker-"Scientific Perspective on the Epithelium in LASEK", "Deep Lamellar Keratoplasty", "Epithelial Defect-Masquerade Syndrome", "Use of LASEK to

treat LASIK Flap Complications”, American Academy of Ophthalmology, Anaheim, CA

Invited Speaker-“LASEK Past, Present and Future” Winter Congress Berlin-Brandenburgischen Augenärztlichen Gesellschaft, Berlin Germany

Invited Speaker-“Phakic Intraocular Lenses: Do They Cause Cataracts?” New England Ophthalmological Society Annual Meeting, Boston, MA

2004

Invited Speaker-“Le pseudophaque peut-il accommoder?”, ‘Monovision chirurgicale: comment l’appliquer et a qui?’, Paris Interefract 2004, Paris, France

Invited Speaker- “Monovision Refractive Surgery”, “Wavefront-guided LASIK: Advantages & Limitations”, “Epithelial Defect Masquerade Syndrome after LASIK”, “Molecular Basis of Corneal Clarity & Avascularity after Refractive Surgery”, “Phakic IOLs: Do They Cause Cataracts?”, “Combined ICRS-LASIK for High Myopia”, Saudi Ophthalmology 2004, Riyadh, Saudi Arabia

Invited Speaker- “Molecular Basis of Corneal Clarity and Avascularity after Refractive Surgery”, “Combined LASIK and INTACS for High Myopia” Cataract and Refractive Surgery Symposium, Miami Beach, FL

Invited Speaker-“LASEK Indications and Techniques”, “Molecular Basis of Corneal Clarity and Avascularity after Refractive Surgery”, Jules Stein Eye Institute Clinical and Research Seminar, UCLA, Los Angeles, CA

Invited Speaker-“Corneal Angiogenic Privilege: The Molecular Basis for Corneal Clarity and Avascularity after Refractive Surgery” Department of Ophthalmology Annual Alumni Meeting, Boston, MA

Invited Speaker – “LASEK Indications and Techniques”, “Epithelial Defect Masquerade Syndrome after LASIK.” Florida Society of Ophthalmology, 2004 Annual Meeting, Orlando, FL

Speaker-“Pro and Anti-Angiogenic Role of MMP-7 and -14 in the Cornea” XVI International Congress of Eye Research, Sydney, Australia

Invited Speaker-“Molecular Basis of Corneal Clarity after Refractive Surgery” Visiting Professor Grand Rounds, Kellogg Eye Center, Ann Arbor, MI

Invited Speaker-“Ablation Profiles and Wavefront Guided LASIK-Advantages and Limitations” The New England College of Optometry, Boston, MA

Invited Speaker-“Corneal Asphericity, Wound Healing and Wavefront-Guided Laser Corneal Surgery” Robert Webb Symposium, Massachusetts General Hospital, Boston, MA

Speaker-“Strategies for Treatment of Astigmatism”, “Surface Ablation: Could it be it. The Future for US Refractive?”, “Biomodulation of Wound Healing”, “New Terminology: DTS”, “Epithelial Defect Masquerade Syndrome after LASIK”, “Sutureless Conjunctival Transplantation”, 2004 Subspecialty Day and American Academy of Ophthalmology Meeting, New Orleans, LA

Invited Speaker-“Conductive Keratoplasty” Pearls on CK and Monovision, “Wavefront 2004” Advances in Refractive Surgery, Postgraduate Course,

“Ophthalmology 2005: Eddies and Currets”, University of California, San Francisco, CA

- 2005
- Invited Speaker-“Wavefront-Guided Keratorefractive surgery: Advantages and Limitations”, “Corneal Neovascularization”, 9<sup>th</sup> Nottingham Eye Symposium and Research Meeting, University of Nottingham, Nottingham, England
- Invited Speaker-“Compassion, Knowledge, and Advanced Ophthalmic Technologies”, Unite for Sight Second Annual International Conference, Harvard University, Boston, MA
- Invited Speaker-“Bimanual Phacoemulsification”, “Mycrobacterial and Fungal Keratitis Following LASIK”, “Molecular Basis of Corneal Scarring and Avascular Membranes”, “IntraLase Use in LASIK; Techniques, Complications and Management”, “Phakic IOL & Piggyback IOL Calculation. Basics & Clinical Application”, “Conductive Keratoplasty for Presbyopia; Indications and Techniques”, Joint Meeting of the VIII International Congress of the Pan Arab African Council of Ophthalmology and the XII UAE International Ophthalmic Conference of the Emirates Medical Association, Dubai, United Arab Emirates
- Invited Speaker-“What Are the Optical Limits to Corneal Refractive Surgery”, “Meniscus Dimensions & Their Effect on Flap Cutting Efficiency”, World Cornea Congress V, Washington, DC
- Speaker-“LASEK, Epi-LASIK, and IntraLase Wavefront-Guided (Custom) Excimer Laser Surgery: Indications and Techniques”, ASCRS/ASOA, Washington, DC
- Invited Speaker-“Why Prefer Surface Ablations Over LASIK”, 4<sup>th</sup> International Congress on EPI-LASIK and Advanced Surface Ablation, Cleveland Clinic, West Ft. Lauderdale, FL
- 2006
- Invited Speaker-“Corneal Angiogenic Privilege: the molecular basis of corneal clarity and avascularity”. Stanford Ophthalmology Lecture Series, Harvard University, Boston, MA
- Presenter-“New Approaches in Posterior Lamellar Transplantation Endokeratoplasty”, “Post Traumatic Iridodialysis during String Sutures”. International Course of Corneal Surgery, Barcelona, Spain
- Presenter – “Corneal Neovascularization”. ARVO, Fort Lauderdale, FL
- Guest Lecturer – “Molecular Basis of Corneal Clarity”. Cole Institute Distinguished Lecture Series, Cleveland, OH
- Presenter – “Intralase-Assisted Endokeratoplasty”. 4<sup>th</sup> SOI International Congress, Rome, Italy
- Instructor – “Advances & Challenges in Refractive Surgery”. Association of Physicians of Pakistani Descent of North America, CME Program, Chicago, IL
- Instructor – “Keratoplasty Indications, Techniques, and Complications”. Lancaster Course, Colby College, Waterville, ME
- Presenter – “Refractive Surgery and Dry Eye: what we need to know”. Symposia Contressi, Fermo, Italy

Presenter – “Monovision: the perfect solution for prehyopia”. XXIV Congress ESCRS, London, United Kingdom

Guest Speaker – “Surgical Options for Treating Astigmatism”. New England Ophthalmological Society, Boston, MA

2007

Invited Speaker-“Angiogenic Privilege: the molecular basis of corneal clarity and avascularity after surgery”. Mayo Clinic Lecture Series, Rochester, MN

Presenter – “Scientific Rationale for Choosing ASA vs. SBK vs. Thick Flap Lasik; which is preferred”. ARVO, Fort Lauderdale, FL

“Epi-LASIK Update: are there advantages over the surface techniques?”, and “Double Pupilloplasty for repair of blunt iris trauma” Current Concepts in Ophthalmology, Vail, CO

“Are we really using the laser to its maximum? Latest advances in lasik.”

“Presbyopia: update on surgical methods,” and “New uses of Femtosecond Laser in Refractive Surgery”, Alicante Refractiva International Conference 2007, Spain

“Are we really using the laser to its maximum? Latest advances in lasik.”

“Presbyopia: update on surgical methods,” and “New uses of Femtosecond Laser in Refractive Surgery”, Alicante Refractiva International Conference 2007, Spain

“Wavefront-Guided Refractive Surgery: Advances & impediments”, Mooney Lecture Series, Irish College of Ophthalmologists, Ireland

Invited Speaker – “Surgical Approaches for the Correction of High Astigmatism”, European Society of Ophthalmology, Vienna, Austria

Presenter – “Impact of Refractive Surgery on the Tear Film and Ocular Surface”, 5th International Conference on the Tear Film & Ocular Surface, Taormino, Sicily.

William N. Williford, MD Distinguished Visiting Professorship – “Wavefront-guided LASIK: Advantages and limitations,” University of Tennessee , Memphis Tenn. September 13-14, 2007.

Invited speaker-“Advantages and Limitations of Wavefront-Guided Lasik / Femtosecond laser for management of high Astigmatism”, Cleveland Ophthalmological Society, Cleveland Ohio, October 9, 2007

Keynote speaker-“Corneal Angiogenesis and Lymphangiogenesis”, Claes H. Dohlman Lecture 25th Biennial Cornea Conference Schepens Eye Research Institute, Harvard Medical School, Boston, Massachusetts. October 12-13, 2007

Instructor and Refractive Surgery Course Moderator - “Post Keratoplasty Astigmatism” and “Advantages and Limitations of Wavefront Guided LASIK” 5<sup>th</sup> Annual Corneal, Cataract, and Refractive Symposium. October 19, 2007.

Speaker - "Combined Keratorefractive Procedures as part of the Cataract and Refractive Surgery Update" and "Pros of Surface Ablation." American Academy of Ophthalmology, New Orleans. November 10-13, 2007.

Invited lecturer – "Advances and Challenges in Refractive Surgery" Grand Rounds, Weill Cornell Medical College, New York, NY. October 25, 2007.  
Seymour Gostin Memorial Lectureship - "Current Status and future of Keratorefractive Surgery" Ophthalmology at the crossroads, Dallas, Texas. December 1, 2007.

Bodenheimer Memorial Lecture – "Wavefront-Guided Keratorefractive surgery: Advantages and Limitations." Wilmer Current Concepts Meeting. December 7, 2007

2008 Annual Everett L. Goar Lecture – "Monovision: The perfect solution for prehyopia." University of Texas. January 10-12, 2008

Corneal angiogenic privilege: The molecular basis of corneal clarity and avascularity. Advanced Topics in Vision Group. January 14, 2008.

Guest Speaker – "Femtosecond Laser in refractive surgery." Grand Rounds Yale & Ophthalmic Laser Surgical Society (OLSS), New York City, NY. January 17-18, 2008.

Instructor- "Advantages and Limitations of Custom Refractive Surgery Femtosecond Refractive and Corneal Surgery." Puerto Rico. February 22 – 24, 2008.

Guest speaker-"Angiogenic Privilege: The Molecular Basis of Corneal Clarity and Avascularity", XXVIII Annual Alamo City Ophthalmology Clinical Conference. March 7-8 2008

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PART III  
Bibliography

**Books (editor/ senior editor/ associate editor)**

1. Azar DT. Refractive Surgery. Stamford, CT: Appleton & Lange-Simon and Schuster; 1997;  
*A multi-authored 48-chapter, 691-page textbook of Refractive Surgery covering the topics of terminology, indications, pharmacology, optics, biomechanics, incisional refractive surgery, PRK, LASIK, phakic IOLs, and combined refractive procedures.*
2. Azar DT, Steinert R., Stark WJ, editors. Excimer Laser Therapy: Phototherapeutic Keratectomy Baltimore, MD: Williams & Wilkins; 1997.  
*A multi-authored 214-page, 14-chapter book focusing on the theory and practice of using the excimer laser to treat corneal scars, dystrophies and PRK complications.*
3. Albert DM, Jakobiec FA; (Azar DT, and Gragoudas ES associate editors to FAJ). Principles and Practice of Ophthalmology Second Edition. Philadelphia, PA: Saunders; 1999.  
*A 6-volume, 422-chapter, 5578-page comprehensive textbook of Ophthalmology (third edition, in preparation; Elsevier-Saunders, Philadelphia, 2007).*
4. Jakobiec FA, Azar DT, editors. Pediatric Ophthalmology; International Ophthalmology Clinics; Winter 1992.  
*A multi-authored publication covering various topics of Pediatric Ophthalmology – part of I.O.C. book series.*
5. Azar DT, editor. (Stark WJ, Azar NF, Pineda R, Yoo SH, associate editors). Intraocular Lenses in Cataract and Refractive Surgery. Philadelphia PA; Saunders; May 2001.  
*A multi-authored 343-page, 28-chapter comprehensive textbook on the contemporary knowledge of intraocular lenses (IOLs) with particular emphasis on IOL material and power calculations, cataract surgical applications, phakic multifocal and accommodating IOLs.*
6. Melki SA, Azar DT, editors. 101 Pearls in Refractive, Cataract, and Corneal Surgery. Thorofare, NJ: Slack; June 2001.  
*A multi-authored concise book covering practical aspects of anterior segment surgery.*
7. Azar DT, Koch DD, editors. LASIK: Fundamentals, Surgical Techniques, and Complications. New York, NY: Marcel Dekker; November 2002.  
*A multi-authored 506-page, 35-chapter book on LASIK stressing preoperative planning, computerized videokeratography, wavefront technology, microkeratomes, excimer lasers, nomograms, surgical techniques, complications, and the detection, etiology and management of LASIK complications.*
8. Tsubota K, Boxer-Wachler B, Azar DT, Koch DD, editors. Hyperopia and Presbyopia. New York, NY: Marcel Dekker; 2003.

*A multi-authored 328-page, 48-chapter book delving into current, established and emerging techniques for the correction of hyperopia and presbyopia.*

9. Foster CS, Azar DT, Dohlman CH, editors. Smolin and Thoft's The Cornea: Scientific Foundations and Clinical Practice, 4<sup>th</sup> Edition. Baltimore, MD: Lippincott Williams & Wilkins; 2005.

*A multi-authored 1323-page, 83-chapter textbook covering basic (cell biology, physiology, biomicroscopy, and topography) clinical (infections, immunologic disease, ocular surface, metabolic diseases, trauma, dystrophies and degenerations, CLs) and surgical (corneal, conjunctival, scleral, transplantation and keratorefractive) topics in corneal, external disease and refractive surgery.*

10. Azar DT, Camellin M, Yee R, editors. LASEK, PRK, and Excimer Laser Stromal Surface Ablation. New York, NY: Marcel Dekker; 2005.

*A multi-authored 340-page, 30-chapter book covering theoretical considerations and practical aspects of surface ablation to correct refractive error (with special emphasis on LASEK, Epi-LASIK and PRK indications, surgical techniques and management of complications).*

11. Melki SA, Azar DT, editors. 101 Pearls in Refractive, Cataract, and Corneal Surgery, 2<sup>nd</sup> Edition. Thorofare, NJ: Slack; 2006.

12. Azar DT, editor. (Gatinel D, Hoang-Xuan T, associate editors). Refractive Surgery, 2<sup>nd</sup> Edition. St. Louis, MO: Elsevier-Mosby, 2007.

13. Albert DM, Miller JW, editors, Azar DT, Blodi BA, associate editors. Albert and Jakobiec's Principles and Practice in Ophthalmology, 3<sup>rd</sup> Edition. Philadelphia, PA: Elsevier, 2008.

14. Alio JL, Azar DT editors. Management of Complications in Refractive Surgery. Springer-Verlag Berlin Heidelberg, 2008

### **Books (In preparation)**

15. Azar DT, Foster CS, Charukamnoetkanok P, Rosenblatt, M editors. Clinical Cornea. Chicago, IL: AMA Press, in preparation.

### **Books (Section editor/Book Series)**

1. Albert DM, Jakobiec FA; eds (**Azar DT, section co-editor: Section VII "Lasers in Ophthalmology"; section VIII "Conjunctiva, Cornea and Sclera"; Section X "Lens"; and Section XX "Optics".**) Principles and Practice of Ophthalmology, Second Edition. Philadelphia, PA: Saunders; 1999 (Upcoming 3<sup>rd</sup> edition: Section editor of "Conjunctiva and Cornea", "Refractive Surgery"; "Lens", and "Optics").
2. Yanoff M, Duker J, editors; (**Azar DT, section editor "Refractive Surgery"**) Ophthalmology. London: Mosby; 1999.

3. Yanoff M, Duker J, editors; (**Azar DT, section editor “Refractive Surgery”**) Ophthalmology Second Edition. St. Louis: Mosby; 2004.
4. Weiss J, editor; (**Azar DT, section editor “Refractive Surgery”**) BCSC 14. American Academy of Ophthalmology. San Francisco, CA; 2004.
5. Azar DT, Koch DD, series editors. Refractive Surgery. New York, NY: Marcel Dekker; (3 books already published; and 1 in preparation)
6. Melki SA, Azar DT, series editors. Surgical and Diagnostic Pearls in Ophthalmology. Thorofare, NJ: Slack; in preparation.

### **Peer-Reviewed Publications - Part I**

(Reviews and Meeting Proceedings)

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(Original Research)

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