

CURRICULUM VITAE

Prepared 3/2016

Name: Roberto Pineda II, MD

Office Address: Massachusetts Eye & Ear Infirmary Tel: (617) 573-4393
Department of Ophthalmology Fax: (617) 573-4300
243 Charles Street
Boston, MA 02114
Email: roberto_pineda@meei.harvard.edu

Home Address: 40 Pleasant Street
Waltham, MA 02452
(781) 647-4323

Place of Birth: Minneapolis, MN

Education:

Sept 1980- June 1984 BS. University of Minnesota, Twin City Campus
Minneapolis, MN

July 1984- May 1985 Non-degree Univeristi Sains Malaysia, Penang, Malaysia
Recipient of the International Reciprocal
Student Exchange Scholarship

Sept 1985- June 1990 MD. University of Minnesota, School of Medicine
Minneapolis, MN

Postdoctoral Training:

Sept 1989-May 1990 Research Fellow, Howard Hughes Medical Institute-NIH Research
Scholars' Program, National Eye Institute, National Institutes of
Health, Bethesda, MD

June 1990- June 1991 PGY-1 Transitional Program
Hennepin County Medical Center
701 Park Ave S, Minneapolis, MN 55415

July 1991-July 1994 Resident Ophthalmology Residency Program
The Massachusetts Eye & Ear Infirmary/
Harvard Medical School, Boston, MA

July, 1994- June 1995 Chief Resident Ocular Trauma Service
The Massachusetts Eye & Ear Infirmary/
Harvard Medical School, Boston, MA

July 1995-July 1996 Clinical Fellow Cornea/External Disease
The Massachusetts Eye & Ear Infirmary/
Harvard Medical School, Boston, MA

Faculty Academic Appointments

1994-99 Instructor in Ophthalmology, Harvard Medical School

1999-12	Assistant Professor, Ophthalmology, Harvard Medical School
2002-06	Scholar, The Academy at Harvard Medical School
2010-14	Adjunct Clinical Faculty Member, New England College of Optometry
2012-15	Associate Professor, Ophthalmology, Harvard Medical School

Appointments at Hospital/Affiliated Institutions

Past

1994-96	Assistant in Ophthalmology, Assistant Staff, MEEI/HMS
1996-98	Assistant Surgeon, Associate Staff, MEEI/HMS
1996-98	Active Staff, Emerson Hospital, Concord, MA
1998-00	Courtesy Staff, Emerson Hospital, Concord, MA
1998-07, 09	Associate Surgeon, Active Staff, BWH/HMS
1998-01	Assistant Surgeon, Active Staff, MEEI/HMS
2001-07	Associate Surgeon, Active Staff, MEEI/HMS
2006-07	Courtesy Staff, Surgery Service, BIDMC
2006-08	Active Staff, Surgery Service, Division of Ophthalmology, BMC

Current

2007-15	Surgeon, Active Staff, MEEI/HMS
2010-15	Clinical Associate, Ophthalmology Service, MGH/HMS
2010-15	Associate Surgeon, Active Staff, BWH/HMS
2010-15	New England College of Optometry, Adjunct Clinical Faculty Member

Other Professional Positions

1994	Visiting Surgeon, Aravind Eye Hospital, Maduri, India
1998	Visiting Faculty, ORBIS International, Jinan, China
2000	Visiting Faculty, ORBIS International, Tashkent, Uzbekistan
2001	Visiting Faculty, ORBIS International, Camaguey, Cuba
2004	Visiting Faculty, ORBIS International, Hyderabad, India
2005	Visiting Faculty, ORBIS International, Addis Ababa, Ethiopia
2007	Visiting Faculty, ORBIS International, Mumbai, India
2008	Visiting Faculty, ORBIS International, Mandalay, Myanmar
2009	Visiting Faculty, ORBIS International, Santo Domingo, DR
2010	Visiting Faculty, ORBIS International, Surabaya, Indonesia
2011	Visiting Faculty, ORBIS International, Ulaan Baatar, Mongolia
2013	Visiting Faculty, ORBIS International, Kolkata, India
2016	Visiting Faculty, ORBIS International, Medan, Sumatra, Indonesia
2004-08	Speakers Bureau, Angiotech (Sharpoint)
2002-10	Speakers Bureau, Allergan
2004-10	Speakers Bureau, Alcon
2008-11	Consultant, Refractive Leadership Council, Alcon
2010	Board of Directors, Visionaries International, Treasurer
2011-14	Consultant, Chinese Residency Advisory Board, Alcon
2011-12	Director, Advanced Cataract Training Course, Shanghai, China, Alcon
2012-16	Consultant, Data Monitoring Committee, Amgen
2012-14	Consultant, Angiotech/Sharpoint

2013-15	Consultant, Data Monitoring Committee, Genzyme
2013	Visiting Faculty, LifeLine Express, Xinxiang, China
2014	Invited Faculty, Advanced Cataract Training Course, Jinan, China, Alcon (Feb 2014)
2014-15	Consultant, Novartis
2014-16	Consultant, Beaver-Visitec
2015-16	Consultant, Sanofi-Genzyme

Major Administrative Leadership Positions

Local

1994-95	Associate Chief of Ophthalmology for Residency and Fellowship Affairs, Mass. Eye & Ear Infirmary
1994-95	Director of Trauma Service, Massachusetts Eye & Ear Infirmary
1994-95	Chief Resident in Ophthalmology, Mass. Eye & Ear Infirmary
1994	Course Director, Practical Ophthalmology for Primary Care, MEEI
1995	Course Director, Non-Infectious Inflammatory Disorders of the Eye and Adnexa, MEEI, Course Director (Course published in IOC)
1998-02	Division Chief of Ophthalmology, Brigham and Womens Hosp.
1998-02	Fellowship director, Anterior Segment Fellowship, BWH
2005-16	Co-Course Director, Harvard Medical School Intensive Cataract Surgical Training Conference (largest and most popular cataract course for American Second Year Ophthalmology Residents)
2006-16	Director, Refractive Surgery Service, MEEI
2006-16	Director, ICO Fellowship, Cornea, MEEI

Committee Service

Local

1985-87	Medical School Student Council, First and Second year rep., treasurer, Univ. of Minnesota
1985-88	Student International Health Committee, Univ. of Minnesota
1987-89	Student Representative to the Committee on Student Scholastic Standing of the University of Minnesota Medical School
1993	The Chandler Visiting Professorship Co-coordinator, MEEI
1993-4	MEEI Ophthalmology Residency Steering Committee, MEEI
1994	The Shipsey Lectureship Committee, MEEI
1994-5	Full-time Medical Staff Committee, member, MEEI
1994-5	Ophthalmology Fellowship Committee, MEEI
1994-5, 02-11	Ophthalmology Residency Selection Committee, MEEI
1994-5	Ophthalmology Residency Steering Committee, MEEI
1994-5	Graduate Medical Education Committee, MEEI
1994-5	Alumni Association, Program Co-chairman, MEEI
1998-02	Operating Room Committee, Brigham and Womens Hospital
1999-02	Practice Advisory Committee, member, MEEI
2002-03	Ophthalmology Residency Steering Committee, member, MEEI
2003-04	Surgicenter Planning Committee, member, MEEI
2004-05	MEEA Board, Physician representative, MEEI
2004-08	Eye Service Executive Committee, Active Staff, MEEI
2007-08	Joint Operating Room Committee, member, MEEI
2008-15	Holmes Society Mentorship Program, HMS, faculty

2010-11 MEEA Board, Physician representative, MEEI
2012-15 Ophthalmology Practice Advisory Committee, MEEI

Regional

1986-87 Medical School Representative to the MN. Student Assoc. (MSA) forum and senator to the Univ. of Minnesota Student Gov't

National:

1985-89 La Raza Medical Association (La RaMA), Univ. of Minnesota Chapter, Chairman and secretary
1998-01 National Hispanic Mentorship Program, member
2008-12 Faculty Advisor, Unite for Sight, Harvard College Chapter

International

2009-12 Member, International Advisory Committee, TBI International Federation of Eye and Tissue Banks
2009-15 Treasurer, Visionaries International, www.visionaries-international.org
2014-15 Committee Member, ICO fellowship

Professional Societies

1986-9 American Medical Student Association (AMSA), U of M
1990- The Association for Research in Vision and Ophthalmology (ARVO), member
1994- American Society of Cataract and Refractive Surgery, Member
1995- International Society of Refractive Surgery, Member
1997- The Corneal Society, Member
1997- The American Academy of Ophthalmology, Fellow
Educational subcommittee, Refractive Surgery Interest Group
AAO Ethics committee, Member (2009-2015)
AAO Practicing Ophthalmology Curriculum Panel, Cataract/Anterior Segment, Member (2008-2013)
2000- New England Ophthalmological Society (NEOS), Active member
2000-09 Massachusetts Society of Eye Physicians and Surgeons, Member
2009-14 Contact Lens Association of Ophthalmologists, Regular Member
2012-15 ASCRS, Phaco Fundamentals committee
2014 AAO 2014 Media Advisory Task Force (MATF), Refractive

Grant Review Activities

2011 ZEY1 VSN (02) Review Committee NEI/NIH, Ad hoc Member

Editorial Activities

1997-14 Ad hoc reviewer Ophthalmology (Journal of the AAO)
1999-14 Ad hoc reviewer Journal of Cataract and Refractive Surgery
2003 Ad hoc reviewer IOVS
2003-14 Ad hoc reviewer Cornea
2004-14 Ad hoc reviewer Digital Journal of Ophthalmology

Honors and Prizes

1980 3M Scholarship
1985 Minority Higher Ability Scholarship

- 1987 The Univ. of Minnesota President's Student Leadership and Service Award
- 1988 The Univ. of Minnesota President's Student Leadership and Service Award
- 1989 Minnesota Medical Foundation 1989 Student Achievement Award
- 1989 The National Dean's List
- 1989 Alpha Omega Alpha, Honor Medical Society
- 1996 Heed Ophthalmic Fellowship
- 1997 Teacher of the Year, Department of Ophthalmology, Massachusetts Eye & Ear Infirmary, Harvard Medical School
- 2000 2000 Partners in Excellence Award- United Arab Emirates Project Team
- 2001 Medical Staff Recognition Award, Massachusetts Eye & Ear Infirmary, Harvard Medical School (Teaching)
- 2002 American Academy of Ophthalmology's *Achievement Award*
- 2014 American Academy of Ophthalmology's *Senior Achievement Award*

Report of Funded and Unfunded Projects

Past Funded Projects

- 1995 Large Corneal Abrasion Study +/- Acular, Randomized clinical trial
Co-Principal Investigator
Alcon Labs
- 2007-2009 Trial of CK-103 eye drops in cataract patients, Phase 1 drug trial
Principal Investigator
Chakshu Research, CK-104

Current Funded Projects

- 2009-2012 Brillouin Confocal Microscopy for imaging the cornea and lens
CIMIT Grant (\$50,000)
Co-Principal Investigator
The major goal of the study is to evaluate the use of non-contact Brillouin microscopy to measure the elastic modulus of the cornea and lens *in vivo*.

Past Unfunded Projects

- 2004 Intacs for the Treatment of Keratoconus, Investigator (#01-04-021)
Purpose was to evaluate the safety and efficacy of Intacs for keratoconus
- 2007-2011 Primary aqueous research study, Principal Investigator
The purpose of the study was to evaluate the aqueous humor level of amyloid-beta peptides related to Alzheimer's disease

Current Unfunded Projects

- 2008-2014 Five year prospective evaluation of the Boston Keratoprosthesis in the developing world (Ethiopia and Sudan).
I am coordinating a 5 year prospective study on the viability of the Boston Keratoprosthesis in non-Western countries through the use of an International Boston Keratoprosthesis Protocol.

2011-2013	Comparative analysis of the IOL Master and LenStar in patients with previous laser vision correction. Coordinating data acquisition and analysis of data with editing of the manuscript submitted for publication.
2012-2014	Comparative analysis of myopic and hyperopic pre and post FemtoLASIK of wavefront aberrometry
2014-2015	Analysis of outcomes in IOL exchange for patients with premium IOLs

Report of Local Teaching and Training

Teaching Students in Courses

2001-2013	Patient-Doctor II Clinical Skills Transfer Course 2 nd year medical Students	HMS 3 hour session
-----------	--	-----------------------

Formal Teaching of Resident, Clinical Fellows and Research Fellows (post-docs)

1997	Postoperative Complications of Cataract Surgery Ophthalmology Residents, Fellows	MEEI 1 hour lecture
1997	Ocular Pharmacology Ophthalmology residents	MEEI 1 hour lecture
1997	The History of Cataract Surgery and The Selection of Intraocular Lenses Ophthalmology residents, Fellows (MEEI)	MEEI 1 hour lecture
1998-11	Corneal topography Ophthalmology residents	MEEI One hour lecture
1999	Conjunctival and Corneal Neoplasias Ophthalmology residents	MEEI One hour lecture
2001-09	Corneal Survival Skills 1 st year ophthalmology residents	MEEI One hour lecture
2008-10	Refractive surgery Ophthalmology residents	MEEI One hour lecture
2011	Presbyopic IOLs Ophthalmology residents	MEEI One hour lecture
2011	Keratoconus Ophthalmology residents	MEEI One hour lecture
2012	Keratoconus Ophthalmology residents	MEEI One hour lecture
2013	Corneal Topography Ophthalmology residents	MEEI One hour lecture

Clinical Supervisory and Training Responsibilities

Harvard Medical School Medical Students

1993-95	HMS Basic Ophthalmology Clerkship, lecturer (MEEI) Third and Fourth year medical students (10-15) 2 hours preparation and contact time per clerkship (2x/year)
1996-05	HMS Clinical Ophthalmology Clerkship, Attending (MEEI) Fourth year medical students (8) 50% mentorship for 1 month (2x/year)

- 2003-04 HMS Advanced Ophthalmology Clerkship, Attending (MEEI)
Fourth year medical student, Daily mentorship for 1 month
- 2006-14 HMS OP501 and OP501M.8, Basic Clinical Elective in
Ophthalmology, Mentor (MEEI)
Third and Fourth year medical students
50% daily mentorship for 1 month (2x/year)
- 2011 HMS OP502. Research Elective in Ophthalmology, Mentor
(MEEI), Third and Fourth year medical students
100% daily mentorship for 1 month (1x/year)

Harvard Medical School Ophthalmology Residents

- 1995-2015 Major contribution in the clinical and surgical training of residents during all 3 years of training with emphasis in cataract and cornea, and more recently refractive surgery. Depending on the rotation and year this has varied from 5% to 50%

Harvard Medical School Ophthalmology Fellows

- 1998-2002 Anterior Segment Fellow, BWH/MEEI. Involved in the clinical and surgical training of fellow, 33% daily mentorship
- 1998-2015 Cornea and Refractive Surgery Fellow, MEEI. Major clinical and surgical training of the fellow, 100% daily mentorship, 25% of total fellow experience

Laboratory and Other Research Supervisory and Training Responsibilities

Formally Supervised Trainees and Faculty

Formal Teaching of Peers (e.g., CME and other continuing education courses)

No presentations below were sponsored by outside entities

- 1993 Controversies in Ophthalmology, The Role of Topical Steroids in the Management of Acanthamoeba Keratitis, Fungal Keratitis and Epidemic Keratoconjunctivitis, MEEI, lecturer
- 1994 Practical Ophthalmology for Primary Care, Ocular Manifestations of Systemic Disease, MEEI, lecturer
- 1994 Retina Workshop for Nurses and Technicians, Overview-Related Ocular Anatomy and Physiology, MEEI, lecturer
- 1995 Practical Ophthalmology for Primary Care, Ocular Injuries, MEEI, lecturer
- 1996 Ophthalmic Nursing Seminar, Anatomy and Physiology of the Eye, MEEI, lecturer
- 1996 Ocular and Adnexal Infections, Management of Postinfectious Ulcerative Keratitis, MEEI, lecturer

- 1996 Course Faculty, Harvard Review Course in Ophthalmology, Emergency Medicine and Anesthesia, MEEI, lecturer
- 1996 Course Faculty, Laser Vision Correction Optometric Education Program, PRK Selection and Evaluation, MEEI, lecturer
- 1997 The Lancaster Course in Ophthalmology, The History of Cataract Surgery and The Selection of Intraocular Lenses, Colby College, Maine, lecturer
- 1998 The Lancaster Course in Ophthalmology, The History of Cataract Surgery and The Selection of Intraocular Lenses, Colby College, Maine, lecturer
- 1999 The Lancaster Course in Ophthalmology, The History of Cataract Surgery, The Selection of Intraocular Lenses, Classification of Cataracts, and, Cataracts from a Global Perspective, Colby College, Maine, lecturer
- 1999 Amil Study Group, Continuing Education Program, Cataract Surgery After Refractive Surgery (10/18/99)
- 2002 Brigham and Women's Hospital, Department of Medicine, 25th Annual Intensive Review of Internal Medicine: Office Ophthalmology
- 2003 Kevin Hill Seminar in Ophthalmology, Colby College, ME
- 2003 Lancaster Course in Ophthalmology, Colby College, ME, Corneal Anatomy and Physiology
- 2003 Brigham and Women's Hospital, Department of Medicine, 26th Annual Intensive Review of Internal Medicine: Office Ophthalmology
- 2004-09 Lancaster Course in Ophthalmology, Colby College, ME, Refractive Surgery and Corneal topography
- 2004 Brigham and Women's Hospital, Department of Medicine, 27th Annual Intensive Review of Internal Medicine: Office Ophthalmology
- 2005 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June 4th-5th), Invited Speaker, Surgical Blade Design, Geometry, and Tissue Considerations
- 2006 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June), Invited Speaker, Surgical Blade Design, Geometry, and Tissue Considerations
- 2007 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June), Invited Speaker, Astigmatism Management in Cataract Surgery

- 2008 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June), Invited Speaker, Astigmatism Management in Cataract Surgery
- 2009 Massachusetts Eye & Ear Infirmary, Harvard Medical School, Intensive Cataract Surgical Training Course (June), Invited Speaker, New IOL technology
- 2011 Lancaster Course in Ophthalmology, Colby College, ME, Refractive Surgery (4 hours)

Local Invited Presentations

- 1999 Grand Rounds, Department of Surgery, Brigham and Women's Hospital, Laser Vision Correction (1/27/99)
- 1999 Grand Rounds, Department of Medicine, Massachusetts General Hospital, Laser Vision Correction Update (9/23/99)
- 2000 BWH Operating Room Nursing and Technical Staff, Laser Refractive Surgery Update (11/29/00)
- 2005 Harvard Medical School, Department of Ophthalmology, 2005 Update on Ophthalmology (June 17th-18th), Invited Speaker, Microincisional Cataract Surgery/Bimanual Phacoemulsification
- 2006 Grand Rounds, Massachusetts Eye and Ear Infirmary, Cornea and External disease in Ethiopia, Boston, MA, 2/22/06.
- 2008 Harvard Medical School, Department of Ophthalmology Alumni Meeting, Massachusetts Eye and Ear Infirmary, Invited speaker, Current trends in the treatment and management of keratoconus, Boston, MA, 6/21/08.
- 2009 Grand Rounds, Massachusetts Eye and Ear Infirmary, Fabry's disease, Boston, MA, 1/7/09.
- 2013 Grand Rounds, Boston Childrens Hospital, Ocular Manifestations of Mucopolysaccharidoses, Boston, MA Feb 6, 2013
- 2014 Boston Keratoprosthesis workshop, Invited Speaker and Course Instructor, MEEI, Boston, MA April 24th, 2014
- 2014 MEEI Alumni Meeting, Mariana Mead Lecturer, June 20th, 2014

Report of Regional, National and International Invited Teaching and Presentations

No presentations below were sponsored by outside entities

Regional

- 1997 Invited Paper, The New England Ophthalmological Society (666th meeting), Optometric Co-Management of keratorefractive Surgical Patients: Pros and Cons, Boston, MA.
- 1999 Invited Paper, The New England Ophthalmological Society (675th meeting), Special Considerations in IOL Power Calculations, Boston
- 2000 Invited Guest Speaker, Massachusetts Society of Optometrists, LASIK 2000 and Beyond, 10/29/00.
- 2001 Invited Guest Speaker, XII Collaborative Program for Ophthalmic Personnel in Conjunction with NEOS, Triaging: You Take the Call, Anterior Segment, Boston, MA, 10/19/2001.
- 2002 Invited Paper, The New England Ophthalmological Society (688th meeting), The Complicated Cataract, Boston, MA
- 2002 Invited Paper, The New England Ophthalmological Society (691th meeting), Not Your Average Joe or Josephina: Unusual Refractive Candidates, Boston, MA, 9/13/02.
- 2003 Moderator, New England Ophthalmological Society (697th meeting), Value-based Assessment of Refractive Surgery, Boston MA, 12/12/03.
- 2006 Invited Lecturer, Corneal Conditions and Corrections, Corneal Anatomy and Physiology, JCAHPO, Waltham, MA, 4/1/06.
- 2006 Invited Speaker, New England Ophthalmological Society (NEOS), Ophthalmology Update for Physicians: A Practical Review. The Red Eye, Waltham, MA, 4/29/06.
- 2007 Invited Paper, The New England Ophthalmological Society (714th Meeting), Post-LASIK Keratitis: Infectious vs. Inflammatory, Boston, MA, 4/20/07.
- 2008 Grand Rounds Invited Speaker, Carney Hospital, Dorchester, MA. Boston keratoprosthesis and Refractive surgery. (2/6/08)
- 2008 Invited Paper, The New England Ophthalmological Society (720th Meeting) , Phaco Chop Techniques: Horizontal vs. Vertical, Boston, MA, 5/30/08.
- 2008 Invited Moderator, Brown Alpert School of Medicine, Division of Ophthalmology, The 11th Annual Resident Research Forum, Providence, RI, 6/13/08.
- 2008 Invited Speaker, Martha's Vineyard Cornea Meeting: 2 case reports

- 2008 Invited Speaker, JCAHPO, Boston Regional Educational Program, Recent Advances in the Treatment of Keratoconus, Boston, MA, 10/25/08.
- 2009 Grand Rounds Invited Speaker, Department of Ophthalmology, Boston University, Current trends in the treatment and management of keratoconus. Boston, MA, 4/1/09
- 2009 Invited Paper, The New England Ophthalmological Society (724th Meeting), Surgical Treatment of Astigmatism, Boston, MA, 4/17/09.
- 2009 Guest Faculty, Invited speaker, 35th Annual Kevin Hill Seminar in Ophthalmology-Cornea Update, 2 talks, Management of Astigmatism and Keratoconus Treatment Update, Waterville, ME, July 13-17, 2009.
- 2009 Invited Paper, The New England Ophthalmological Society (727th Meeting), Management of Astigmatism during Cataract Surgery, Boston, MA, 11/20/09.
- 2010 Guest Faculty, Invited Speaker, Cape Cod Innovations and Controversies in Ophthalmology, Glaucoma, Anterior Segment and Retinal Therapies, 2 lectures, Brewster, MA, Sept 24-26, 2010.
- 2010 Invited Paper, The New England Ophthalmological Society (731st Meeting), Ethical Informed Consent for Refractive Surgery, Boston, MA, 10/1/10.
- 2010 Moderator, New England Ophthalmological Society (731st Meeting), Cornea and Refractive Surgery, Boston, MA, 10/1/10
- 2011 Invited Paper, The New England Ophthalmological Society (735st Meeting), Refractive Enhancement of Premium IOLs, Boston, MA, 12/9/11
- 2012 Invited Paper, The New England Ophthalmological Society (741st Meeting), The Advantages of Deep Anterior Lamellar Keratoplasty, Boston, MA, 9/14/12
- 2013 Invited Faculty, The New England Ophthalmological Society (745st Meeting), Refractive Subspecialty Session, Boston, MA, May 17, 2013
- 2014 Grand Rounds, Invited Speaker, Boston University, May 28th, 2014
- 2014 Invited Faculty, The New England Ophthalmological Society (750th Meeting), Deep Anterior Lamellar Keratoplasty: A Review, Boston, MA, May 30th, 2014
- 2014 Invited Lecture, Jamaica Plains Veterans Administration Hospital June 9th, 2014

2015 Invited Faculty, The New England Ophthalmological Society (753rd Meeting), The Wrong IOL: Issues of Risk Management and Ethics, Boston, MA, March 6th, 2015

National

1996 Paper Session Moderator, ARVO, Ocular Trauma, Fort Lauderdale, FL

1998 Invited lecture, Jules Stein Eye Institute, UCLA, Recognition and Treatment of Visual Disturbances in Corneal Epithelial Basement Membrane Dystrophy, Los Angeles, CA.

1999 Invited Lecture, W. Kellogg Eye Institute, University of Michigan, Recognition and Treatment of Visual Disturbances in Corneal Epithelial Basement Membrane Dystrophy, Ann Harbor, MI.

1999 Invited Lecture, New York University, Corneal and Conjunctival Neoplasia, New York, NY, 9/99.

2004 Visiting Professor lecture, Department of Ophthalmology, University of Tennessee, Memphis, Surgical Consideration in Ocular Trauma and Anterior Segment Reconstruction, Memphis, TN, 2/1/04.

2004 Visiting Guest Lecturer, Department of Ophthalmology, University of Tennessee, Memphis, Eighth Annual Update for the Comprehensive Ophthalmologist, 2 lectures, Memphis, TN, 12/4/04.

2006 Invited Speaker, Grand Rounds, Yale Department of Ophthalmology, New Haven, CT, May 12, 2006.

2006 Invited Guest Speaker, First Annual University of Louisville Fall Meeting, 2 lectures, Louisville, KY, September 16, 2006.

2007 Invited Speakers, Grand Rounds, Sanford University, Department of Ophthalmology. Surgical Evaluation of Astigmatism, Palo, Alto, CA, May 2007

2008 Grand Rounds Invited Speaker, Cornell-Weill Medical School, Department of Ophthalmology, DSEK Surgery, New York, NY. March 27th, 2008.

2008 The Annual Convention of The Memphis Eye Society, Invited Speaker/Visiting Faculty, 3 lectures, Memphis, TN, May 10th, 2008

2009 Guest Faculty, Invited Speaker, UCSF COAST 2009, Course on Ophthalmic Advanced Surgical Techniques. Premium IOLs and Postrefractive IOL calculations. San Francisco, CA, 3/7/09.

- 2009 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), East Coast Region. Baltimore, MD, 4/24/09.
- 2009 Invited Speaker, Chicago Ophthalmological Society. "Corneal Topography and Cataract Surgery: Mandatory or Marketing?" Chicago, IL, 10/12/09.
- 2009 Invited Speaker, CURSO 2009. Bascom Palmer Eye Institute. 3 lectures: Surgical treatment of Astigmatism, Keratoprosthesis in the Developing World, A Pilot Project, KeraKlear: A Novel Keraoprosthesis, Miami, FL, Nov 1-2, 2009.
- 2010 Invited Speaker, Sports Vision 2010- A New Paradigm. The Role of Refractive Surgery in Sports Performance. Boston, MA 1/25/2010
- 2010 Invited Speaker, Grand Rounds, Montefiore Medical Center, Department of Ophthalmology. Role of Corneal Topography in Cataract Surgery, Bronx, NY, 3/1/2010.
- 2010 Guest Faculty, Invited Speaker, UCSF COAST 2010, Course on Ophthalmic Advanced Surgical Techniques. Premium IOLs and Postrefractive IOL calculations. San Francisco, CA, 5/15/2010.
- 2010 Guest Faculty, Annual Buffalo Ophthalmology Symposium, 2 lectures (Topography and Cataract Surgery, Astigmatism Management), Buffalo, NY, 6/4/2010.
- 2010 Invited Speaker, Voices from the Field, ORBIS International Major Donor Reception, Harvard Club, New York City, 11/9/2010
- 2011 Invited Speaker, American Society of Retina Specialists, Cornea, Anterior Segment Review, Boston, MA, Saturday August 20th, 2011
- 2011 Guest Speaker, New Mexico Academy of Ophthalmology, Annual Scientific Meeting, Updates in Ophthalmology, 2 lectures, Albuquerque, NM, Saturday September 24th, 2011
- 2011 Guest Faculty and Speaker, Bascom Palmer Cataract Wet Lab Course, Miami, FL, Saturday Oct 1st, 2011
- 2012 Invited Speaker, CLAO meeting, Ethics Symposium, Ethical and Legal Issues in Sport Medicine, Las Vegas, NV, Jan 28, 2012
- 2012 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), East Coast Region. Baltimore, MD May 4-5, 2012
- 2012 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), Central Region. Chicago, IL, Oct 20-21, 2012

- 2012 Invited Speaker, AAO Cornea Subspecialty Day, Ethical Issues Associated with Incorporating New Surgical Techniques into Your Practice, Chicago, IL Nov 10, 2012
- 2012 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), West Coast Region. San Diego, CA, Dec 7-8, 2012.
- 2013 Invited Speaker, UCLA Department of Ophthalmology Cornea Service Lecture, The Role of Corneal Topography/Tomography in Cataract Surgery, Los Angeles, CA, Jan 9th, 2013
- 2013 Invited Speaker, UCLA Department of Ophthalmology Grand Rounds, Developing Corneal Imaging Technology: Brillouin Optical Microscopy for Corneal Biomechanics, Los Angeles, Jan 9th, 2013
- 2013 Invited Speaker, Cornell University Department of Ophthalmology Grand Rounds, Advances in Analyzing Corneal Biomechanics: Clinical Implications, New York, NY, April 4th, 2013
- 2013 Invited Speaker, Cornea Day ASCRS, Refractive Nightmares, “Seizing the Moment”, San Francisco, CA, April 19th, 2013
- 2013 Guest Faculty, Invited Speaker, UCSF COAST at ASCRS 2013, Course on Ophthalmic Advanced Surgical Techniques. Management of Astigmatism in Cataract Surgery. San Francisco, CA, April 22, 2013.
- 2013 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), Central Region. Chicago, IL, Oct 4-6, 2013
- 2013 AAO, Invited Speaker, International Young Ophthalmology Session, rm 252. Adopting New Techniques in Surgery after Formal Training: Ethical Considerations.
- 2014 Grand Rounds, Invited Speaker, New York University Department of Ophthalmology, Corneal Biomechanics: Why and How We Should Study It! Jan 14th, 2014
- 2014 New York University Department of Ophthalmology Resident Lecture, The Role of Corneal Topography/Tomography in Cataract Surgery, Jan 15th, 2014
- 2014 Nashville Academy of Ophthalmology, Invited Speaker, Multifocal IOLs, Who’s Right and Who’s Wrong, and How the Wrongs are Righted! Jan 27th, 2014
- 2014 Vanderbilt University Department of Ophthalmology Resident Lecture, The Role of Corneal Topography/Tomography in Cataract Surgery, Jan 28th, 2014
- 2014 ASCRS REACT Cataract Course in NYC, Invited Speaker, March 1st, 2014

- 2014 Cornea Subspecialty Day, ASCRS, Invited Speaker, April 25th, 2014, Boston, MA
- 2014 CLAO meeting, Invited Speaker, 2 lectures (Toronto), June 12-15, 2014
- 2014 Arizona Ophthalmology Society Meeting, Invited Speaker (Flagstaff), 3 lectures, June 27-29, 2014
- 2014 Northwestern Resident Phaco Course, Invited Keynote Lecturer, September 13, 2014 Chicago, IL
- 2014 ISRS Panel Member, Refractive Surgery Subspecialty day AAO, Will Biomechanics Change the Way We Do Laser vision Correction in the Future? Oct 17th, 2014, Chicago, IL
- 2014 AAO Refractive Surgery Subspecialty Day, Break with the Experts, Elevation corneal Tomograohy, Oct 17th, 2014, Chicago, IL
- 2014 AAO Refractive Surgery Subspecialty day, New Technology in corneal Diagnostics, Brillouin Microscopy. Invited Speaker, Oct 18th, 2014, Chicago, IL
- 2014 AAO International Ethics Symposium, Informed Consent, Invited Speaker, Oct 20014, Chicago, IL
- 2014 Johns Hopkins Cataract and Cornea Practicum, Wilmer Eye Institute, Invited Speaker, Nov 15-16, 2014, Baltimore, MD
- 2014 Guest Faculty, Invited Speaker, CORE (Complementary Ophthalmic Residents Education), West Coast Region. Carlsbad, CA, Dec 6-7, 2014
- 2015 Keynote Speaker, XII World Cornea Congress, Corneal Transplantation in the Developing World: Lessons Learned, San Diego, CA. April 17, 2015
- 2016 ASCRS REACT Cataract Course in NYC, Invited Speaker, March 5st, 2016
- 2016 Texas Ophthalmological Association, 2016 Annual Meeting, Hilton Anatole Hotel, Dallas, Texas, Invited Speaker, April 29. 2016
- 2016 Will Eye Hospital, Visiting Professor Series, Invited Speaker, May 11th, 2016

International

- 1999 Invited Guest Speaker, Philippine Academy of Ophthalmology, Refractive Surgery, Manila, Philippines, 11/99.
- 2000 Invited Guest Speaker, Ophthalmologic Congress of the Dominican Republic, Cornea and Refractive Surgery, 7/2000.

- 2001 Invited Guest Speaker, Asian Eye Institute, Manila, Philippines
- 2007 Invited Guest Speaker, Universidad de San Luis Potosi, Mexico, October 19th, 2007. Corneal Topography/ Wavelight Allegretto Eye-Q
- 2007 Invited Speaker, XVII Simposium de Catarata y Cirugia Refractiva, Tijuana, Mexico. Nov 30-Dec 1, 2007. Boston Keratoprosthesis (Conferencia Magistral)
- 2008 Invited Speaker, Makkah Eye Complex, Khartoum Sudan, Beyond Graft Failure: The Boston Keratoprosthesis, (12/14/2008)
- 2010 Invited Speaker, XI International Congress of Cataract and Refractive Surgery – 3 lectures, Natal, Brazil, from May 19th-22nd, 2010.
- 2010 Guest Faculty, 1st Meeting Arab Forum of Ophthalmology, 2 lectures, Cairo, Egypt, Dec 16th-17th, 2010
- 2011 Guest Faculty, Cornea Connect 2011, LAICO, Aravind Eye Care System, 3 Lectures, Madurai, India, Jan 8th-9th, 2011
- 2012 Invited Speaker, XII International Congress of Cataract and Refractive Surgery – 3 lectures, Parque Anhembi, Sao Paulo, Brazil, from May 30th- June 2nd, 2012. 5 lectures
- 2013 Guest Speaker, Dar El-Oyun Cornea and Refractive Meeting, Marriot Hotel, AIDA Ballroom. Cairo, Egypt, Jan 24th, 2013. 2 Lectures
- 2013 Invited Speaker, Bombay Ophthalmologists' Association and Advanced Eye Hospital, Demystifying Advances in Cornea and Refractive Surgery, Navi Mumbai, India, Mar 17th, 2013. 3 lectures
- 2013 Invited Speaker, Sri Sankaradeva Nethralaya, Gawahati, India, March 20th and 21st, 2013. 3 lectures
- 2013 Invited Speaker, LVII Curso de Formacion y Perfeccionamiento de Oftalmologos, Encuentro con las oftalmologia de Harvard, Santiago, Chile, May 24-25, 2013. 5 lectures
- 2013 Invited Speaker, PAAO/CBO meeting, Rio de Janeiro, Brazil, Aug 7-10, 2013. 4 lectures
- 2013 Invited Speaker, Cataract and Refractive Panorama AEHI CME, Navi Mumbai, India Sept 22, 2013. 3 lectures
- 2013 Invited International Faculty, USP Alumni Meeting, Sao Paulo, Brazil, Nov 28-Dec1, 2013. 4 lectures

- 2014 XIII International Congress of Cataract and Refractive Surgery, Rio de Janeiro, Brazil (April 2-5, 2014), 3 lectures
- 2014 XXI Brazilian Congress of Ophthalmology, Blindness Prevention and Visual Rehabilitation, Recife, Brazil, Invited International Speaker, 10 lectures Sept 3-7, 2014
- 2014 MEEI Ophthalmology Scholar Exchange China Program, Invited Participant, 2 lectures, September 2014
- 2014 Invited speaker, LV Prasad Eye Institute Education Day, Scientific Meeting, 3 lectures, December 2014
- 2014 Guest Faculty, Sightlife CSCT, LVPEI, Hyderabad, India. December, 2014
- 2015 Guest Speaker, Grand Rounds, Corneal Biomechanics. Université of Montréal-Ophthalmologie, Montreal, Canada. May, 2015
- 2015 Invited speaker, Special day of refractive surgery. Brillouin microscopy update: potential applications, 38th CBO meeting, Florianopolis, Brazil, September 2, 2015
- 2015 Invited speaker, Special day of cataract. Cataract surgery in Marfan patients: Surgical considerations, 38th CBO meeting, Florianopolis, Brazil, September 2, 2015
- 2015 Invited speaker, Special day of cornea and external disease, Rethinking surgical approaches for Fuchs endothelial dystrophy, 38th CBO meeting, Florianopolis, Brazil, September 2, 2015
- 2015 Panelist, Refractive Surgery 2015: The Vegas Player's Guide of Refractive Surgery-Everyone Wins! REF03- Panel Discussion
- 2015 Invited International Speaker, Federal University of Sao Paulo (UniFESP), Specialization Course on Cornea, November 27-28, 2015
- 2015 Invited International Speaker, Keracon, 3rd National Meeting of Cornea Society of India, Kolkata, India, December 11-13, 2015
- 2015 Invited International Speaker, XXV Annual Congress of the Iranian Society of Ophthalmology, 14-17 December 2015, Tehran, Iran

Teaching in professional society courses

- 2000 ASCRS Course, 101 Corneal and Cataract Pearls, Boston, MA
- 2000 ASCRS Course, Controversial Topics in LASIK, Boston, MA
- 2003 ASCRS Course #2110, Refractive Surgery Techniques in the Management of Corneal Diseases: Intracorneal Rings for Keratoconus
- 2003 AAO Course, Surgical Management of Corneal Disease: Surgical Management of Corneal Astigmatism

2004 AAO Course, Surgical Management of Corneal Disease: Surgical Management of Corneal Astigmatism

2005 AAO Course, Surgical Management of Corneal Disease: Surgical Management of Corneal Astigmatism

2006 AAO Course 761, Surgical Management of Corneal Disease: Surgical Management of Corneal Astigmatism(Galileo 1001), Course Instructor

2009 AAO. Breakfast with the Experts: Refractive Surgery: Ethical Informed Consent, Moderator

2009 AAO Course #670, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (West 2018). Course Instructor

2009 AAO, Skills, Management of Vitreous for the Anterior Segment Surgeon, Course Instructor (LAB484A, South 100 Mascone)

2010 ASCRS/ASOA, Scientific Paper Session Panelist, Intraocular Surgery IOLs: Microincisions and Materials (4/11/10), 2-D BCEC, 204B

2010 ASCRS/ASOA, Skills Transfer Session, STS2: Advanced Phaco, Course Instructor

2010 AAO Course #362, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (West 2018). Course Instructor

2010 AAO Annual Meeting, Course 521: Just the Facts: (New) No-Nonsense Ethics Case Studies, Research vs. Clinical Practice, Instructor

2010 AAO. Breakfast with the Experts: Refractive Surgery: Ethical Informed Consent, Moderator

2010 AAO Annual Meeting, Original Paper Panel, Cornea, External Disease I, Monday, Oct 18th, S406B, Moderator

2010 AAO, Skills, Management of Vitreous for the Anterior Segment Surgeon, Course Instructor

2011 ASCRS, STS3 Advanced Phaco, SDCC 14B, Course Instructor

2011 AAO Course #588, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (W204c). Course Instructor

2011 AAO. Breakfast with the Experts: Refractive Surgery: Ethical Informed Consent, #B112, Moderator

2011 AAO, Skills, LAB227B, Management of Vitreous for the Anterior Segment Surgeon (W110a), Course Instructor

2012 AAO, Skills, LAB, Management of Vitreous for the Anterior Segment Surgeon (N228), Course Instructor

2012 AAO Course #168, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (rm S103D). Course Instructor

2012 AAO Annual Meeting, Course 312 (rm S106A): Medical Ethics in the Hot Seat, Course Instructor

2012 AAO Annual Meeting, Course 413 (rm N427BC), Theory and Techniques of Corneal Surgery: An Interactive Course for Corneal Surgeons, Introduction and Overview of Global Burden of Corneal Blindness, Course Instructor

2012 AAO. Breakfast with the Experts: Refractive Surgery: Ethical Informed Consent, B451, Hall A, Moderator

2013 AAO MOC Review Course, Cataract, Chicago, Il, July 19th, 2013

2013 AAO Annual Meeting, Course 220 (rm 217): The Institutional Review Board Submission Process: Why Should I Care and What if I Don't? Course 220, Course Instructor

2013 AAO, Skills, LAB106A, Management of Vitreous for the Anterior Segment Surgeon (W110a), Course Instructor

- 2013 AAO Course #335, Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice (rm 346-7). Course Instructor
- 2014 AAO, Skills, Vitrectomy Anterior Segment lab, Course Instructor
- 2015 ASCRS Course 2371: Pitfalls of the Cataract Surgery Mentor, Course Faculty
- 2015 ASCRS Course 2386: Pitfalls of the Novice Cataract Surgeon, Course Faculty
- 2015 ASCRS Course 2529: Cataract Outreach Quality Eye Surgery in Challenging Environments, Course Faculty
- 2015 ESCRS Course IC43, How to improve your refractive outcomes by skillful interpretation of corneal mapping, September 6th, 2015
- 2015 ESCRS Course IC54, Collagen Cross-linking: Indications, results, complications and evolving technology, September 6th, 2015
- 2015 ESCRS Wetlab 42, Lens Explantation Course, September 7th, 2015
- 2015 AAO Course #235, Keratoconus: The 2015 Protocol (Room: Marco Polo 706), Instructor, 11/15/2015
- 2015 AAO Course #290, Current Strategies for Management of Irregular Cornea (Room: Marco Polo 706), Instructor, 11/15/2015

Report of Clinical Activities and Innovations

Current Licensure and Certification

- 1991 National Board of Medical Examiners
- 1992- Massachusetts Medical License
- 1995 Diplomate, American Board of Ophthalmology, recertified 2005
- 1996- The Commonwealth of Massachusetts, Controlled Substances
- 1996- Controlled Substance Registration Certificate, Drug Enforcement Administration

Practice Activities

Ophthalmology (Cornea, Cataract, and Refractive Surgery)

Board-certified ophthalmologist with subspecialty training in cornea and external disease, and ocular trauma. Within this area of ophthalmology, my focus is in keratorefractive and cataract surgery

1996-2005 Ambulatory care/Surgery Ophthalmology, Refractive Surgery, Cataract, HVMA multiple sites 1-2 sessions per week (Director of Refractive Surgery)

1998-2002 Ambulatory care/Surgery Ophthalmology, Cornea, Cataract 7 sessions per week (Division Chief of Ophthalmology and Director of the Anterior Segment Fellowship/BWH)

1998-2011 Ambulatory care/Surgery Ophthalmology Cornea, Cornea Service at MEEI 8 sessions per week (Director of Refractive Surgery at MEEI)

Clinical Innovations

I was one of the first faculty members at the Massachusetts Eye and Ear Infirmary to utilize and teach clear cornea incision techniques, topical and intracameral anesthesia, and limbal relaxing

incisions during cataract surgery. I have been a pioneer in bring new techniques and technology to MEEI and the New England region including conductive keratoplasty, Intacs with Intralase for keratoconus, and DLEK and DSEK (novel posterior lamellar corneal transplantation) and DALK (novel anterior lamellar corneal transplantation). Have recently introduced a new technique for corneal tattooing (submitted for publication)

Report of Technological and Other Scientific Innovations

Patents/Instrument

1. The Pineda LASIK Flap Iron from ASICO. Designed to assist in removing wrinkles and folds in the LASIK flap (1999)

Report of Education of Patients and Service to the Community

Activities

Educational Material for Patients and the Lay Community

(No educational materials below were sponsored by outside entities)

1. **Pineda II R.** Keratoconus Patient Information Sheet. Digital J Ophthalmol. 1996.
2. Audiovisual Material: Coping with Blindness (videocassette), MEEI Social Work; 1995.
3. Roque MR, Roque BL, Limbonsiong R, **Pineda II R.** Hyperopia and Presbyopia, Conductive Keratoplasty. eMedicine from WebMD (updated Sept 4th, 2013).
<http://emedicine.medscape.com/article/1222433-overview>
4. Roque MR, Roque BL, Limbonsiong R, **Pineda II R.** Myopia, Intracorneal Rings. eMedicine from WedMD (updated Sept 4th, 2013).
<http://emedicine.medscape.com/article/1221441-overview>
5. Roque MR, Limbonsiong R, Roque BL, **Pineda R.** Astigmatism, PRK. eMedicine from WebMD. Updated Feb 15th, 2012.
<http://emedicine.medscape.com/article/1220845-overview>

Recognition

- | | |
|---------|---|
| 2002 | Listing in "Guide to America's Top Ophthalmologists" by the Consumers' Research Council of America (Washington, DC) |
| 2004 | Listing in "Guide to America's Top Ophthalmologists" by the Consumer's Research Council of America |
| 2007 | Best of Boston, Ophthalmology, Boston Magazine |
| 2007-15 | Best Doctors in America- 5% of all US Doctors |
| 2009-11 | Listing in "Guide to America's Top Ophthalmologists" by the Consumers' Research Council of America (Washington, DC) |
| 2013 | Doctor of Excellence, Leaders in Healthcare Network |
| 2014 | Top Doctor, Castle Connolly Medical LTD |
| 2014 | Listing in "Guide to America's Top Ophthalmologists" by the Consumer's Research Council of America |
| 2015 | Top Doctor, Castle Connolly Medical LTD |

Report of Scholarship

Research Investigations

1. Summers CG, Purple RL, Krivit W, **Pineda II R**, Copland GT, Ramsey NKC, Kersey JH, Whitley CB; Ocular Changes in the Mucopolysaccharidoses after Bone Marrow Transplantation: A Preliminary Report. *Ophthalmology* 1989;96:977-985.
2. **Pineda II R**, Chan C-C, Ni M, Hayden B, Johnson MA, Chader GJ. Human Retinoblastoma Cells Express alpha B-Crystallin In Vivo and In Vitro. *Curr Eye Res* 1993; 12:239-245.
3. Kaiser PK, the Corneal Abrasion Patching Study Group. A Comparison of Pressure Patching versus No Patching for Corneal Abrasions due to Trauma or Foreign Body Removal. *Ophthalmology* 1995;102:1936-1942.
4. Kaiser PK, **Pineda R**. A Study of Topical Non-Steroidal Anti-Inflammatory Drops and No Pressure Patching in the Treatment of Corneal Abrasions. *Ophthalmology* 1997;104:1353-1359.
5. **Pineda II R**, Theodossiadis P, Gonzalez VH, Young LHY, Gragoudas E. Establishment of a Rabbit Model of Extrasceral Extension of Ocular Melanoma. *Retina* 1998;18:368-372.
6. Wykoff CC, **Pineda R 2nd**. Myopic laser in situ keratomileusis in eyes with thick corneas. *J Cataract Refract Surg*. 2006 May;32(5):900-1.
7. Akpek EK, Harissi-Dagher M, Petracca R, Butrus SI, **Pineda R 2nd**, Aquavella JV, Dohlman CH. Outcomes of Boston keratoprosthesis in aniridia: a retrospective multicenter study. *Am J Ophthalmol*. 2007 Aug;144(2):227-231. Epub 2007 Jun4.
8. Dastjerdi MH, Al-Arfaj KM, Nallasamy N, Hamrah P, Jurkunas UV, **Pineda R 2nd**, Pavan-Langston D, Dana R. Topical bevacizumab in the treatment of corneal neovascularization: results of a prospective, open-label, noncomparative study. *Arch Ophthalmol*. 2009 Apr;127(4):381-9.
9. Moncaster JA, **Pineda R (co-first authors)**, Moir RD, Lu S, Burton MA, Ghosh JG, Ericsson M, Soscia SJ, Mocofanescu A, Folkerth RD, Robb RM, Kuszak JR, Clark JI, Tanzi RE, Hunter DG, Goldstein LE. Alzheimer's disease amyloid-beta links lens and brain pathology in Down syndrome. *PLoS One*. 2010 May 20;5(5):e10659.
10. Todani A, Ciolino JB, Ament JD, Colby KA, **Pineda R**, Belin MW, Aquavella JV, Chodosh J, Dohlman CH. Titanium back plate for a PMMA keratoprosthesis: clinical outcomes. *Graefes Arch Clin Exp Ophthalmol*. 2011 Apr 26. [Epub ahead of print]
11. Scarcelli G, Kling S, Quijano E, **Pineda R**, Marcos S, Yun SH. Brillouin microscopy of collagen crosslinking: noncontact depth-dependent analysis of corneal elastic modulus. *Invest Ophthalmol Vis Sci*. 2013 Feb 19;54(2):1418-25. doi: 10.1167/iovs.12-11387
12. Cade F, Cruzat A, Paschalis EI, Espírito Santo L, **Pineda R**. Analysis of four aberrometers for evaluating lower and higher order aberrations. *PLoS One*. 2013;8(1):e54990. doi: 10.1371/journal.pone.0054990. Epub 2013 Jan 22.

13. Scarcelli G, Besner S, **Pineda R**, Yun SH. Biomechanical characterization of keratoconus corneas ex vivo with Brillouin microscopy. *Invest Ophthalmol Vis Sci*. 2014 Jun 17;55(7):4490-5.
14. Scarcelli G, Besner S, **Pineda R**, Kalout P, Yun SH. In Vivo Biomechanical Mapping of Normal and Keratoconus Corneas. *JAMA Ophthalmol*. 2015 Jan 22. doi: 10.1001/jamaophthalmol.2014.5641.
15. Hong J, Shi W, Liu Z, **Pineda R**, Cui X, Sun X, Xu J. Limitations of Keratoplasty in China: A Survey Analysis. *PLoS One*. 2015 Jul 10;10(7):e0132268. doi:10.1371/journal.pone.0132268. eCollection 2015.
16. Rudnisky CJ, Belin MW, Guo R, Ciolino JB; Boston Type 1 Keratoprosthesis Study Group. Visual Acuity Outcomes of the Boston Keratoprosthesis Type 1: Multicenter Study Results. *Am J Ophthalmol*. 2015 Nov 10.
17. Applegate MB, Partlow BP, Coburn J, Marelli B, Pirie C, **Pineda R**, Kaplan DL, Omenetto FG. Photocrosslinking of Silk Fibroin Using Riboflavin for Ocular Prostheses. *Adv Mater*. 2016 Mar;28(12):2417-20. doi: 10.1002/adma.201504527. Epub 2016 Jan 29
18. Applegate MB, Partlow BP, Coburn J, Marelli B, Pirie C, **Pineda R**, Kaplan DL, Omenetto FG. Silk Fibroin: Photocrosslinking of Silk Fibroin Using Riboflavin for Ocular Prostheses (*Adv. Mater.* 12/2016). *Adv Mater*. 2016 Mar;28(12):2464.

Other Peer-reviewed Publications

1. Kaiser PK, **Pineda R**, Albert DM, Shore JW. 'Black Cornea' After Long-term Epinephrine Use. *Arch Ophthalmol*. 1992;110:1273-1275.
2. Remulla JFC, **Pineda R**, Milam AH, Gaudio AR. Cutaneous Melanoma-Associated Retinopathy with Retinal Periphlebitis. *Arch Ophthalmol*. 1995; 113:854-5.
3. **Pineda II R**, Urban Jr RC, Bellows AR, Jakobiec FA. Ciliary Body Neurilemoma: Unusual Clinical Findings Intimating the Diagnosis. *Ophthalmology* 1995;102:918-923.
4. Johnson SM, Cheng HM, **Pineda R**, Netland PA. Magnetic resonance imaging of cyclodialysis clefts. *Graefes Arch Clin Exp Ophthalmol* 1997;235:468-471
5. **Pineda R**, Talamo JH. Late-onset haze following PRK associated with viral keratoconjunctivitis. *J Refract Surg* 1998;14:147-151.
6. Uy HS, **Pineda II R**, Shore JW, Polcharoen W, Jakobiec FA, Foster CS. Hypertrophic discoid lupus erythematosus of the conjunctiva. *Am J Ophthalmol*. 1999;127(5):604-605.
7. Johnson JD, Harissi-Dagher M, **Pineda R**, Yoo S, Azar DT. Diffuse lamellar keratitis: Incidence, associations, outcomes, and a new classification system. *J Cataract Refract Surg*. 2001 Oct;27(10):1560-6.

8. Acharya N, **Pineda R** 2nd, Uy HS, Foster CS. Discoid lupus erythematosus masquerading as chronic blepharoconjunctivitis. *Ophthalmology*. 2005 May;112(5):e19-23.
9. Mian SI, Gupta A, **Pineda R** 2nd. Corneal Ulceration and Perforation with Ketorolac Tromethamine (Acular®) Use After PRK. *Cornea* 2006 Feb;25(2):232-234.
10. De la Cruz J, Behlau I, **Pineda R**. Atypical mycobacteria keratitis after laser in situ keratomileusis unresponsive to fourth-generation fluoroquinolone therapy. *J Cataract Refract Surg* 2007 Jul;33(7):1318-21.
11. Montezuma S, Lessell S, **Pineda R**. Optic Neuropathy after Epi-LASIK. *J Refract Surg*. 2008 Feb;24(2):204-8. Epub 2007 Sept.
12. Kocaturk T, **Pineda R**, Green LK, Azar DT. Post-LASIK Epithelial Dendritic Defect Associated with *Alternaria*. *Cornea* 2007 Oct;26(9):1144-1146.
13. **Pineda R**, Kocaturk T, Bhui RD. Visual Outcome and Rehabilitation in a Case of Bilateral *Acanthamoeba* Sclerokeratitis. *Cornea* 2007 Oct;26(9):1150-1152.
14. Thiagalingam S, Tarongoy P, Hamrah P, Lobo AM, Nagao K, Barsum C, Bellows R, **Pineda R**. Complications of Cosmetic Iris Implants. *J Cataract Refract Surg*. 2008 Jul;34(7):1222-4.
15. Afshari NA, Ma JK, Duncan SM, **Pineda R**, Starr CE, Francis DeCroos FC, Johnson CS, Afshari Adelman R. Trends in Resistance to Ciprofloxacin, Cefazolin, and Gentamicin in the Treatment of Bacterial Keratitis. *J Ocul Pharmacol Ther*. 2008 Apr;24(2):217-23.
16. Jain V, **Pineda R**. Reactivated herpetic keratitis following laser in situ keratomileusis. *J Cataract Refract Surg*. 2009 May;35(5):946-8.
17. **Pineda R** 2nd, Jain V, Shome D, Hunter DC, Natarajan S. Descemet's stripping endothelial keratoplasty: is it an option for congenital hereditary endothelial. *Int Ophthalmol*. 2009 Jul 19. [Epub ahead of print]
18. **Pineda R**, Jain V. Arcuate Keratotomy: An Option for Astigmatism Correction After Laser In Situ Keratomileusis. *Cornea*. 2009 Aug 31. [Epub ahead of print]
19. Jakobiec FA, **Pineda R**, Rivera R, Hsu-Winges C, Cherwek D. Epicorneal Polypoidal Lipodermoid: Lack of Association of Central Corneal Lesions with Goldenhar Syndrome Verified with a Review of the Literature. *Surv Ophthalmol*. 2009 Sept 25. [Epub ahead of print]
20. **Pineda, Roberto II**; Shiuey, Yichieh. The KeraKlear Artificial Cornea: A Novel Keratoprosthesis. *Tech Ophthalmology*. 2009;7(3);101-104.
21. Mira Lim; **Roberto Pineda**. Therapeutic Keratoplasty with the Femtosecond Laser. *Contemporary Ophthalmology*. 2010;9(10);1-8. January 15th, 2010.

22. Patel SP, Sajnani MM, **Pineda R**. Posterior Polymorphous Dystrophy and Keratoglobus in a Child. *J Pediatr Ophthalmol Strabismus*. 2010 Feb 8:1-3
23. Jakobiec FA, Lam H, Bhat P, **Pineda R**. Non-syndromic supernumerary caruncles causing ocular irritation after cataract surgery: a critical review of caruncular dysgeneses. *Am J Ophthalmol*. 2010 Mar;149(3):398-404.e1-2.
24. Ament JD, Todani A, **Pineda R 2nd**, Shen TT, Aldave AJ, Dohlman CH, Chodosh J. Global corneal blindness and the Boston Keratoprosthesis type 1. *Am J Ophthalmol*. 2010 Apr;149(4):537-9.
25. **Pineda R 2nd**, Jain V, Gupta P, Jakobiec FA. Descemet's stripping endothelial keratoplasty: an effective treatment for toxic anterior segment syndrome with histopathologic findings. *Cornea*. 2010 Jun;29(6):694-7.
26. Ament JD, Tilahun Y, Mudawi E, **Pineda R**. Role for ipsilateral autologous corneas as a carrier for the Boston keratoprosthesis: the Africa experience. *Arch Ophthalmol*. 2010 Jun;128(6):795-7.
27. **Pineda R**, Denevich S, Lee WC, Waycaster C, Pashos CL. Economic evaluation of toric intraocular lens: a short- and long-term decision analytic model. *Arch Ophthalmol*. 2010 Jul;128(7):834-40.
28. Keating A, **Pineda R 2nd**. Trichosporon asahii Keratitis in a Patient With a Type I Boston Keratoprosthesis and Contact Lens. *Eye Contact Lens*. 2011 Aug 26. [Epub ahead of print]
29. Ahmed AA, **Pineda R**. *Alcaligenes xylosoxidans* Contact Lens-Related Keratitis-A Case Report and Literature Review. *Eye Contact Lens*. 2011 Nov;37(6):386-9.
30. Scarcelli G, **Pineda R**, Yun S. Brillouin optical microscopy for corneal biomechanics. *Invest Ophthalmol Vis Sci*. 2012 Jan 20;53(1):185-90. doi: 10.1167/iovs.11-8281.
31. Rudnisky CJ, Belin MW, Todani A, Al-Arfaj K, Ament JD, Zerbe BJ, Ciolino JB; Boston Type 1 Keratoprosthesis Study Group. Risk factors for the development of retroprosthetic membranes with Boston keratoprosthesis type 1: multicenter study results. *Ophthalmology*. 2012 May;119(5):951-5. doi: 10.1016/j.ophtha.2011.11.030. Epub 2012 Feb 22.
32. Veldman P, Behlou I, Soriano E, Starling JC, **Pineda R**. Cosmetic iris implants: two cases of explantation secondary to uveitis, glaucoma and corneal decompensation. *Arch Ophthalmol*. 2012 Jun;130(6):787-9. doi: 10.1001/archophthalmol.2011.2594.
33. Jain V, Mhatre K, Shome D, **Pineda R**. Fungal keratitis with the type 1 Boston keratoprosthesis: early Indian experience. *Cornea*. 2012 Jul;31(7):841-3. doi: 10.1097/ICO.0b013e3182068614.

34. Palioura S, Chodosh J, **Pineda R**. A novel approach to the management of a progressive Descemet membrane tear in a patient with keratoglobus and acute hydrops. *Cornea*. 2013 Mar;32(3):355-8. doi: 10.1097/ICO.0b013e31825cea80.
35. Ciolino JB, Belin MW, Todani A, Al-Arfaj K, Rudnisky CJ; Boston Keratoprosthesis Type 1 Study Group. Retention of the Boston keratoprosthesis type 1: multicenter study results. *Ophthalmology*. 2013 Jun;120(6):1195-200. doi: 10.1016/j.optha.2012.11.025. Epub 2013 Mar 15.
36. Cruzat A, Tauber A, Shukla A, Paschalis EI, **Pineda R**, Dohlman CH. Low-Cost and Readily Available Tissue Carriers for the Boston Keratoprosthesis: A Review of Possibilities. *J Ophthalmol*. 2013;2013:686587. Epub 2013 Nov 24. Review.
37. Behlau I, Martin KV, Martin JN, Naumova EN, Cadorette JJ, Sforza JT, **Pineda R** 2nd, Dohlman CH. Infectious endophthalmitis in Boston keratoprosthesis: incidence and prevention. *Acta Ophthalmol*. 2013 Nov;92(7):e546-55.
38. da Silva Ricardo JR, Medhi J, **Pineda R**. Indications for and outcomes of deep anterior lamellar keratoplasty in mucopolysaccharidoses. *J Pediatr Ophthalmol Strabismus*. 2013 Nov-Dec;50(6):376-81.
39. Ricardo JR, Medhi J, **Pineda R**. Femtosecond Laser-assisted Keratopigmentation for the Management of Visual Disabilities Due to Peripheral Iridectomies. *J Glaucoma*. 2014 Apr 25. [Epub ahead of print]
40. **Pineda R**. Corneal Transplantation in the Developing World: Lessons Learned and Meeting the Challenge. *Cornea* 2015 Oct34 Suppl 10:S35-40

**Non-peer reviewed scientific or medical publications/materials in print or other media
Reviews, chapters, and editorials**

1. **Pineda II R**, Marcus DM. Ophthalmic Pathology and Tumors. In: Lamkin JC ed. The Massachusetts Eye and Ear Infirmary Review Manual for Ophthalmology. Boston: Little Brown and Co.;1992. p. 101-146.
1. **Pineda II R**, Dohlman CH. The Role of Topical Steroids in the Management of Acanthamoeba Keratitis, Fungal Keratitis and Epidemic Keratoconjunctivitis. *Int Ophthalmol Clin*. 1994;34 (3):19-31.
2. **Pineda R**, Dohlman CH. Adjunctive Therapy and Surgical Considerations in the Management of Bacterial Ulcerative Keratitis. *Int Ophthalmol Clin* 1996;36(3):37-48.
3. Cyriac IC, **Pineda II R**. Postoperative Complications of Periocular Anesthesia. *Int Ophthalmol Clin*. 2000;40 (1):85-91.
4. American Academy of Ophthalmology Focal Points: Open-Globe Injuries 2001; Volume XIX Number 7. Consultant (Clinician's Corner Questions)

5. Melki S and Azar DT, eds. In 101 Pearls for Cataract, Corneal and Refractive Surgery. Thorofare: SLACK Inc.; 2001. Chapter 17; Four Pearls for Suturing Corneal Incisions and Lacerations.
6. Fong DS ed. In Efficient Eye Care: Manual of Managed Care Ophthalmology. Medford: Blackwell Science Inc.; 2001. Chapter 15; Refractive Surgery: Getting an efficient start.
7. Chen SH, **Pineda R**. Epithelial and fibrous downgrowth: mechanisms of disease. *Ophthalmol Clin North Am*. 2002 Mar;15(1):41-8.
8. Jain S, Azar DT, **Pineda R**. Management of astigmatism after corneal trauma. *Int Ophthalmol Clin*. 2002;42(3):47-55.
9. Maw R, **Pineda R**, Pasquale LR, Dana MR. Traumatic ruptured globe injuries in children. *Int Ophthalmol Clin*. 2002;42(3):157-65.
10. Nouri M, **Pineda R**, Azar D. Descemet membrane tear after cataract surgery. *Semin Ophthalmol*. 2002;17(3-4): 115-9.
11. Sippel K, **Pineda R**. Phacoemulsification and thermal wound injury. *Semin Ophthalmol*. 2002;17(3-4): 102-9.
12. Gardiner MF, **Pineda R**, Dana MR. Laser cataract surgery: past, present, and evolving technologies. *Int Ophthalmol Clin*. 2004 Winter;44(1):113-21.
13. Fernandez-Suntay JP, **Pineda R II**, Azar DT. Conductive keratoplasty. *Int Ophthalmol Clin*. 2004 Winter; 44(1):161-8.
14. Fynn-Thompson N, **Pineda R II**. Antibiotic advances in ophthalmology. *Int Ophthalmol Clin*. 2004 Summer;44(3):91-102.
15. Charukamnoetkanok P, **Pineda R 2nd**. Controversies in management of bacterial keratitis. *Int Ophthalmol Clin*. 2005 Fall;45(4):199-210.
16. Foster CS, Azar DT, and Dohlman CH, eds. The Cornea: Scientific Foundation and Clinical Practice. Philadelphia:Lippincott Williams & Williams;2005.Chapter 44; Physical Injuries of the Cornea.
17. Albert D, Jakobiec F, eds. Principals and Practice of Ophthalmology. Philadelphia:Saunders;2007.Chapter; Radial and Astigmatic Keratotomy
18. Albert D, Jakobiec F, eds. Principals and Practice of Ophthalmology. Philadelphia:Saunders;2007.Chapter; Recurrent Epithelial Erosion
19. Melki S and Azar DT, eds. In 101 Pearls for Cataract, Corneal and Refractive Surgery. Thorofare: SLACK Inc.; 2006. Chapter 20; Three Pearls for Suturing Corneal Incisions and Lacerations.

20. Combined Surgery in a Uniocular, Mentally Retarded Patient. Cataract surgery Complications Management (Rocha, **Pineda**, Freeman). Cataract and Refractive Surgery Today. September 2007;Vol. 7. No. 9
21. De la Cruz J, **Pineda R 2nd**. LASIK-associated atypical mycobacteria keratitis: a case report and review of the literature. Int Ophthalmol Clin. 2007 Spring, 47(2):73-84.
22. Qian Y, **Pineda R**. Safety and efficacy of PRK and LASIK in pediatric patients. Int Ophthalmol Clin. 2008 Spring;48(2):193-208. Review.
23. Dunn JP, Langer PD, eds. Basic Techniques of Ophthalmic Surgery. Colombia:American Academy of Ophthalmology:2009. Chapter 18: Gupta P, **Pineda R**. Limbal Relaxing Incisions or Peripheral Corneal Relaxing Incisions.
24. CRST, December 2009 Loose IOL/CTR/Capsular Bag Complex. By Uday Devgan, MD; Robert Kaufer, MD; **Roberto Pineda, MD**; and David S. Rootman, MD, FRCSC
25. Comander J, **Pineda R 2nd**. Accommodating intraocular lenses: theory and practice. Int Ophthalmol Clin. 2010 Winter;50(1):107-17.
26. Chang GC, **Pineda R 2nd**. Phakic intraocular lenses. Int Ophthalmol Clin. 2010 Winter;50(1):119-28.
27. Mandell KJ, Jurkunas UV, **Pineda R 2nd**. Intraocular lens calculations after refractive surgery. Int Ophthalmol Clin. 2010 Winter;50(1):181-9.
28. Price FW, Price MO, Letko E, eds. Curbside Consultation in Cornea and External Disease.Thorofare:Slack Inc:2010. Question 42: **Pineda R**.
29. Sonia Yoo. Consultation Section: Refractive Surgical Problem: May Consultation. J Cataract Refract Surg. 36(5):867 (May 2010). **Roberto Pineda** May Consultation #5.
30. Keating A, **Pineda R 2nd**, Colby K. Corneal cross linking for keratoconus. Semin Ophthalmol. 2010 Sep-Nov;25(5-6):249-55.
31. Kullman G, **Pineda R 2nd**. Alternative applications of the femtosecond laser in ophthalmology. Semin Ophthalmol. 2010 Sep-Nov;25(5-6):256-64.
32. Nouri M, Todani A, **Pineda R 2nd**. Laser/Light Applications in Ophthalmology: Visual Refraction. London:Spinger Verlag;2011. In Lasers in Dermatology and Medicine.
33. Hemmati HD, Gologorsky D, **Pineda R 2nd**. Intraoperative wavefront aberrometry in cataract surgery. Semin Ophthalmol. 2012 Sep-Nov;27(5-6):100-6. doi: 10.3109/08820538.2012.708809. Review.
34. Sayegh RR, **Pineda R 2nd**. Practical applications of anterior segment optical coherence tomography imaging following corneal surgery. Semin Ophthalmol. 2012 Sep-Nov;27(5-6):125-32. doi: 10.3109/08820538.2012.707274. Review.

35. Rankin JK, **Pineda R** 2nd. Traumatic in-the-bag intraocular lens subluxation. *Int Ophthalmol Clin*. 2013 Fall;53(4):11-21.
36. Raoof D, **Pineda R**. Dry eye after laser in-situ keratomileusis. *Semin Ophthalmol*. 2014 Sep-Nov;29(5-6):358-62.
37. Bozorg S, **Pineda R**. Cataract and keratoconus: minimizing complications in intraocular lens calculations. *Semin Ophthalmol*. 2014 Sep-Nov;29(5-6):376-9.
38. Aristeidou A, Taniguchi EV, Tsatsos M, Muller R, McAlinden C, **Pineda R**, Paschalis EI. The evolution of corneal and refractive surgery with the femtosecond laser. *Eye Vis (Lond)*. 2015 Jul 14;2:12. doi: 10.1186/s40662-015-0022-6. eCollection 2015. Review.

**Non-peer reviewed scientific or medical publications/materials in print or other media
Books, monographs, and text books**

1. Jakobiec FA, Adamis AP, **Pineda II R**, eds. *Noninfectious Inflammatory Disorders of the Eye and Adnexa*. *Int Ophthalmol Clin* 1996;36(1). Little Brown and Co., Boston.
2. Kaiser PK, **Pineda R**, Friedman N, eds. In *The Massachusetts Eye and Ear Infirmary Illustrated Manual of Ophthalmology*. Philadelphia: WB Saunders Co.; 1998 (Second Edition 2003, Third Edition 2009), **Fourth edition (2014)**

Won first prize, medical book competition, Philadelphia Book Clinic

A six-hundred page practical and comprehensive summary of ophthalmology for the resident and primary care physician (Second edition 2003).

3. Azar DT, Stark WJ, Azar NF, **Pineda R**, Yoo S, eds. In *Intraocular Lens in Cataract and Refractive Surgery*. Philadelphia: WB Saunders Co.; 2001
4. **Pineda R**, Espaillet A, Perez VL, Rowe SG, eds. In *The Complicated Cataract: The Massachusetts Eye & Ear Infirmary Phacoemulsification Practice Handbook*. Thorofare: SLACK Inc.;2001
5. Ledford J, **Pineda R**, eds. *In The Little Eye Book: A Pupil's Guide to Understanding Ophthalmology*. Thorofare: SLACK Inc.;2001

Ophthalmology Best Sellers List, Professional Book Division, SLACK Incorporated

6. Henderson BA, **Pineda R**, Chen SH, Ament C, Kim, JY. *Essentials of Cataract Surgery*. Thorofare: SLACK Inc.;2007, **Second edition 2014**

**Non-peer reviewed scientific or medical publications/materials in print or other media
Nonprint Material**

1. Krzystolik M, **Pineda II R**. Grand Rounds: Fifty-one year old woman stabbed in the right orbit. *Digital J Ophthalmol*. 1995
2. **Pineda R**, Shiuey Y, Abad JC. Implantation of the KeraKlear foldable artificial cornea. Accepted virtual film submission, F-79. San Francisco, CA. ASCRS 2009.

3. **Pineda R.** Management of Astigmatism during Cataract Surgery: LRI vs. Toric IOLs. Optimizing Outcomes in Cataract Surgery. Audio-Digest Ophthalmology. Vol. 48 Issue 04, Feb 21st, 2010. ISSN 0271-1281

Clinical Guidelines and Reports

1. The Boston Keratoprosthesis: International Protocol (Version 2, June 15, 2009)
 - a. Clinical Protocol
 - b. http://www.masseyeandear.org/gedownload!/KPro%20International%20Protocol2.pdf?item_id=5816015
 - c. This protocol is used internationally as a guideline to help cornea surgeons systematically approach selection of patients and postoperative monitoring of the Boston Keratoprosthesis. I was instrumental in creating, formatting and updating Versions 1 and 2. Version 3 is under revision currently.

Abstracts

1. Ma JK, Afshari MA, **Pineda R**, Ho J, Starr CE, Paton BG, Afshari NA. Emerging Resistance Patterns of Bacterial Keratitis: Is Fluoroquinolone Monotherapy Adequate? Poster 2001, Ft. Lauderdale, FL (ARVO) and NEOS 2001
2nd place winner poster contest
2. S Chen, **R Pineda**. Comparison of Mini-Flared 45 Degree Kelman Tip 0.9mm and the Mini-Flared OZil 12 Tip in Expended Torsional Phaco Energy in Resident and Attending Cases. San Diego, ASCRS 2008 Poster
3. Gupta P, Jurkunas U, **Pineda R**. Early Experience and Results with the Wavelight Allegretto Eye-Q 400 Hz laser. NEOS Poster 5/30/08.
First place winner and Hecht Award for Fellow Presentation
4. Dasjesdi MH, Hamrah P, Al-Arfaj KM, Pavan-Langston D **Pineda II R**, Jurkunas UV, Dana R. Topical Bevacizumab in the Treatment of Corneal Neovascularization: Results of a Prospective, Open-Label, Noncomparative Pilot Study. AAO 2008 Poster (PO338) (Atlanta)
5. **R. Pineda, II**, J.D. Ament, Y. Tilahun, I. Behlau, C.H. Dohlman. Prospective Evaluation of Sustaining the Boston Keratoprosthesis in the Developing World: A Pilot Project. Vis. Sci. 2009: E-Abstract 1497/A407.
6. K.J. Mandell¹, P. Rudalevicius², U.V. Jurkunas¹, **R. Pineda, II**¹. Determining the Best Pentacam EKR Zone for IOL Power Calculations in Postrefractive Patients. Vis. Sci. 2009: E-Abstract 5082/D1028.
7. **Pineda, Roberto**; Denevich, Svetlana; Lee, Won Chan; Waycaster, Curtis; Pennie, Sarah; Pashos, Chris L. Comparison of Outcomes and Costs with New Toric IOLs Versus Conventional IOLs. San Francisco, ASCRS 2009 Poster P-135.
8. Behlau I, Todani A, Wilson ME, Dohlman CH, **Pineda II R**. Travel-associated Eye Problems: Environmental and Infectious Disease Risks and Prevention. International Society of Travel Medicine 2009:PO15.15.

9. Ament JD, **Pineda II R**, Chodosh J, Dohlman CH, Tilahun Y, Lakho K. 2-Year Prospective Analysis and Cost-Effectiveness of the Boston Keratoprosthesis in Africa. *Vis. Sci.* 2010;51:E-Abstract 6438/D1056.
10. Veldman P, Behlou I, Soriano E, Starling JC, **Pineda R**. Anterior Chamber OCT, Light and Scanning Electron Microscopy of NewColorIris™ Cosmetic implants explanted from two patients with uveitis, glaucoma and corneal decompensation following initial implantation. ARVO/ISIE 2011, Program number 87, PosterBoard 59, Session 105.
11. Cade F, Cruzat A, Paschalis E, Espirito Santo L, Schrems, WA, **Pineda R**. Analysis of Four Aberrometers for Evaluating Higher Order Aberrations, *Vis. Sci.* 2011:E-Abstract
12. Behlau I, Ozcelik S, Avery KA, Wilson ME, Dohlman CH, **Pineda II R**. Contact Lens Safety and Eye Health in Travelers- Risks and Recommendations. International Society of Travel Medicine 2011:PO04.08.
13. Guadalupe Villarreal, Jr., Thore Schmedt, **Roberto Pineda**, Ula V. Jurkunas. Evaluating the Use of Statins in the Establishment of a Corneal Endothelial Protective Phenotype, *Vis. Sci.* 2012: E-Abstract
14. Sebastien Besner, Giuliano Scarcelli, **Roberto Pineda, II**, Seok H. Yun. In Vivo Biomechanical Imaging of the Human Eye with Brillouin Microscopy, *Vis. Sci.* 2012: E-Abstract
15. Giuliano Scarcelli, Sabine Kling, Elena Quijano, **Roberto Pineda**, Susana Marcos2, Seok H. Yun. Brillouin microscopy of collagen crosslinking: non-contact depth-dependent analysis of corneal elastic modulus *Vis. Sci.* 2013: E-Abstract

NARRATIVE REPORT

I am a board-certified ophthalmologist with training in cornea, external disease, refractive surgery, and ocular trauma. My main areas of focus are refractive surgery, cornea and cataract surgery. Previously, I was the Division Chief of Ophthalmology at the Brigham and Womens Hospital and Director of the Anterior Segment Fellowship as well as Director of Refractive Surgery for Harvard Vanguard Medical Associates which I helped to establish in 1996. I am currently Director of Refractive Surgery on the Cornea Service at MEEI, and serve on the American Academy of Ophthalmology's Ethics Committee and the Practicing Ophthalmology Committee (POC), Cataract Section. I regularly teach and lecture at our national meetings including "Breakfast with the Experts".

Approximately 90% of time is spent in clinical patient care. About 40% of these patients are seen for refractive surgery. The other 60% of patients are evaluated for cornea and external disease problems, or complex cataract and anterior segment cases. Most of these patients are complex and referred for second or third opinions, or re-operations. I have often been referred to as the "doctor's doctor" operating on many of the HMS faculty and their families. Additionally, I have undertaken an international role, helping to introduce the Boston keratoprosthesis (artificial cornea). I have established two longitudinal clinical sites in Ethiopia and Sudan under an international protocol (available

on the MEEI website) to evaluate the viability of these devices. I have published 2 papers last year in this area and am preparing a third manuscript. Global medicine is an important part of my practice. I am the director of the International Council of Ophthalmology (ICO) fellowship at MEEI and am also advisor for the Harvard College Chapter of Unite for Sight as well as a Board Member of Visionaries International, a non-profit organization whose aim is to train corneal surgeons in developing countries. I also participate annually with ORBIS International (www.orbis.org), teaching ophthalmologist the latest surgical techniques.

I was the first faculty at MEEI to utilize clear cornea incision techniques, topical and intracameral anesthesia, and limbal relaxing incisions during cataract surgery. I have been a pioneer in bringing new techniques and technology to MEEI and the New England region including conductive keratoplasty, Intacs with Intralase for keratoconus and DLEK, DSEK, and DALK (novel lamellar corneal transplantation). I have been involved in many trials for both corneal and refractive surgery. Currently, I am working on a Brillouin confocal microscope for the cornea and lens to analyze the physiologic properties of these structures and have recently authored a paper in IOVS and Ophthalmology on the subject. I have major teaching responsibilities which include the HMS medical students, MEEI ophthalmology residents and cornea fellows and regularly work with them in the clinic and operating room.

I have received the **1997** Teacher of the Year Award, Department of Ophthalmology, MEEI, the **2000** Partners in Excellence Award- United Arab Emirates Project Team, the **2001** Medical Staff Recognition Award, MEEI, and in **2002**, I received the American Academy of Ophthalmology's Achievement Award and in **2014** I received the American Academy of Ophthalmology's Senior Achievement Award. I have also been named Best of Boston, Ophthalmology and Best Doctors in America.

I have made major contributions to the Department in teaching, clinical expertise, administrative roles and research. Clinical expertise and innovation have been my principal contributions as outlined in the above statements.