

CURRICULUM VITAE

EDWARD JOHN HOLLAND, M.D.

Work Address Cincinnati Eye Institute
Director of Cornea Services
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Personal Data

Date of Birth June 23, 1956
Place of Birth Chicago, Illinois
Certification Diplomate, National Board of Medical Examiners - 1982
Diplomate, American Board of Ophthalmology -1986
License To Practice Medicine and Surgery
State of Ohio; November 5, 1999, #35077410
State of Kentucky; November 21, 1999, #35605
State of Minnesota; January 1, 1987, #031291

Education

College Drake University, 1975-1978, B.A.
St. Olaf College, 1974-1975
Medical School Loyola - Stritch School of Medicine, Chicago, IL
1978-1981, M.D.

Post Graduate Training

Internship Flexible, Henry Ford Hospital, Detroit, Michigan
1981-1982
Residency Ophthalmology, University of Minnesota, 1982-1985
Fellowship Cornea and External Disease, University of Iowa
1985-1986
Fellowship Ocular Immunology, National Eye Institute, National
Institutes of Health, 1986-1987

Appointments

- 2000-Present** Professor of Clinical Ophthalmology, University of Cincinnati
- 2000-Present** Director, Cornea and External Disease Services,
Cincinnati Eye Institute, Cincinnati, Ohio
- 2000-Present** Medical Director, Northern Kentucky Eye Laser Center,
Edgewood, Kentucky
- 1996-2000** Professor, Department of Ophthalmology, University of Minnesota
- 1994-2000** Elias Potter Lyon Chair in Ophthalmology,
- 1988-2000** Director, Cornea and External Disease Fellowship,
Department of Ophthalmology, University of Minnesota
- 1988-2000** Director, Cornea and External Disease Service,
Department of Ophthalmology, University of Minnesota
- 1987-1999** Consultant, Cornea and External Disease, Hennepin County
Medical Center, Minneapolis, Minnesota
- 1992-1996** Associate Professor, Department of Ophthalmology,
University of Minnesota
- 1988-1993** Consultant, Cornea and External Disease, Veterans
Administration Hospital, Minneapolis, Minnesota
- 1987-1988** Assistant Chief, Ophthalmology, Veterans Administration
Hospital, Minneapolis, Minnesota
- 1987-1992** Assistant Professor, Department of Ophthalmology,
University of Minnesota

Awards and Honors

American Academy of Ophthalmology Senior Achievement
Award 2002
Paton Society Award 2002
American Academy of Ophthalmology Honor Award 1993
Best Teaching Faculty Award, Department of Ophthalmology,
University of Minnesota, 1988, 1993
Heed Ophthalmic Foundation Fellowship, 1985-1986
Minnesota Society for the Prevention of Blindness and
Preservation of Hearing, Outstanding Research Award, 1984
Fae M. Shawhan Award, Outstanding Premedical Student of
the Class of 1978, Drake University
Magna Cum Laude, Drake University, 1978

Administrative Experience

Current

- 2002-Present Journal, *The Ocular Surface*: Associate Editor
- 2001-Present Chair, Cornea Clinical Committee, American Society of Cataract and Refractive Surgery
- 2000-Present Castroviejo Cornea Society: President
- 1999-Present Cornea Donor Study: Co-principal Investigator
- 1999-Present International Ocular Surface Society: Vice President
- 1998-Present Eye Bank Association of America: Scientific Program Committee
- 1998-Present American Board of Ophthalmology, Fellowship Accreditation Committee: Subspecialty Standards Committee
- 1996- Present Eye Bank Association of America: Chairman, Medical Advisory Board
- 1996- Present Eye Bank Association of America: Executive Committee
- 1996-Present Journal *Cornea*: Editorial Board
- 1995-Present American Academy of Ophthalmology: Chairman, Skills Transfer Committee
- 1993-Present Castroviejo Cornea Society: Board of Directors
- 1992-Present Eye Bank Association of America: Accreditation Committee
- 1990-Present Eye Bank Association of America: Medical Advisory Board
- 1988-Present Minnesota Lions Eye Bank: Associate Medical Director

Past

- 1989-1990..... Minneapolis Ophthalmological Society, Minneapolis, MN: Secretary-Treasurer
- 1989-1995..... American Academy of Ophthalmology: Regional Update Committee
- 1990-1991 Minneapolis Ophthalmological Society, Minneapolis, MN: President
- 1993-1994 Eye Bank Association of America: Chairman, Medical Advisory Board
- 1993-1994 Eye Bank Association of America: Vice-Chairman, Medical Advisory Board
- 1993-1997 Minnesota Academy of Ophthalmology: Chairman, Membership Committee
- 1994-1996 Eye Bank Association of America: Exam Committee
- 1994-1996 Eye Bank Association of America: Research Committee
- 1995-1998 American Academy of Ophthalmology: Cornea Panel of the Committee on Ophthalmic Procedures Assessment
- 1998-2000 Eye Bank Association of America: Research Committee
- 1996- 2000 Castroviejo Cornea Society: Executive Secretary-Treasurer
- 1993-1999 American Academy of Ophthalmology: Committee on Eye Banks
- 1993-2000 American Academy of Ophthalmology: Alternate Counselor
- 1990-1992 Eye Bank Association of America: Scientific Program Committee: Chairman
- 1989-2000 Minnesota Academy of Ophthalmology: Board of Directors
- 1996-1997 Minnesota Academy of Ophthalmology: Chairman, Internal Affairs Committee
- 1996-1997 Minnesota Academy of Ophthalmology: Vice-President
- 1996-1998 Eye Bank Association of America: Accreditation Committee

- 1996-1998 Eye Bank Association of America: Chairman, Medical Advisory Board Committee
- 1996-1998 Eye Bank Association of America: Scientific Program & Meetings Committee
- 1996-1998 Journal *Cornea*: Editorial Board
- 1997-1998 Minnesota Academy of Ophthalmology: President

Grants

1. Eye Bank Association of America Research Grant: The Antigenic Modification of Corneal Tissue and its Effect on Corneal Graft Survival in the Rat Transplantation Model (\$5,000). 1989, Principal Investigator.
2. Institut Merieux Corporation: Evaluation of New Immunosuppressive Agents in the Prevention of Corneal Graft Rejection (\$18,000). 1989, Co-Investigator.
3. Sandoz Pharmaceuticals Corporation: Multicenter Clinical Trial of Sandimmune 2% Ointment in the Prevention of Corneal Graft Rejection in High Risk Corneal Transplant Patients (\$120,000). 1989, Principal Investigator.
4. Eye Bank Association of America Research Grant: Whole Globe Enucleation vs. In-situ Corneal Excision. A Comparison of Tissue Contamination and Trauma (\$5,000). 1990, Principal Investigator.
5. Minnesota Medical Foundation: Corneal Transplant Rejection Studies Using Endothelial Cell Seeding and Immunochemical Techniques (\$6,000). 1990, Principal Investigator.
6. Bristol-Myers Squibb Company: Suppression of Corneal Graft Rejection using 15-Deoxyspergualin (\$7,500). 1991, Principal Investigator.
7. Sandoz Pharmaceutical Corporation: Multicentered Clinical Trial of Sandimmune 2% Ointment in the Treatment of Keratoconjunctivitis Sicca. (\$28,800). 1991, Principal Investigator.
8. Storz Ophthalmics, Inc.: Effect of PDGF on Corneal Wound Healing (\$7,500). 1992, Principal Investigator.
9. Storz Ophthalmics, Inc.: Effect of Topical Tetracycline on Corneal Neovascularization (\$7,500). 1992, Principal Investigator.
10. Bristol-Myers Squibb Company: Suppression of Corneal Graft Rejection using 15-Deoxyspergualin (\$18,500). 1992, Principal Investigator.
11. Wyeth-Ayerst: Evaluation of Rapamicin in Corneal Graft Rejection (\$18,500). 1992, Principal Investigator.
12. Glycomed/Galardin MPI Study (\$23,500). 1993, Principal Investigator.
13. Eye Bank Association of America Research Grant Urocanic acid in prevention of corneal rejection in the rat penetrating keratoplasty model (\$5000). 1993, Principal Investigator.
14. Storz Ophthalmics, Inc.: "Evaluation of the Efficacy of New Topical Agents to Inhibit Corneal Neovascularization" (\$73,334) 1/1/94-12/31/95, Principal Investigator.

Grants (continued)

15. Tissue Banks International: Efficacy of Topical Lyposome Encapsulated Rapamycin in the Rat Orthotopic Penetrating Keratoplasty Model (\$9,500) 1994, Principal Investigator.
16. National Eye Institute, Minnesota Center, U10-EY03761-13: "Prospective Evaluation of Radial Keratotomy," 1980-1994. Co-investigator.
17. Tissue Banks International: "Efficacy of Topical Lyposome Encapsulated Rapamycin in the Rat Orthotopic Transplant Model" (\$10,000) 8/1/94-7/31/95. Principal Investigator.
18. NIH/Emory University: "Prospective Evaluation of Radial Keratotomy" (\$48,406) 3/1/92-2/28/94. Co-Investigator.
19. Smith-Kline Beecham Pharmaceuticals: "Treatment of Ophthalmic Zoster with Famciclovir or Acyclovir" (\$32,240) 5/1/95-4/30/97. Principal Investigator.
20. Minnesota Medical Foundation: Pre Clinical Studies of Gene Therapy for Scheie Keratopathy (\$8,000). 1995, Co-Investigator.
21. Eye Bank Association of America, Inc.: "Confocal Microscopy in Early Cornea Transplant Rejection" (\$7,940) 1995, Principal Investigator.
22. Storz Ophthalmic Pharmaceuticals: "A Phase II, Randomized, Double-Masked, Placebo-Controlled, Safety and Efficacy Study of Cidofovir Topical Ophthalmic Solution in the Treatment of Viral Epidemic Keratoconjunctivitis (EKC)" (\$16,230) 10/1/96-10/1/97. Principal Investigator.
23. Storz Ophthalmic Pharmaceuticals: "A Phase II, Randomized, Single-Masked (Investigator), Active-Controlled, Parallel Evaluation of the Safety and Efficacy of Cidofovir Topical Ophthalmic Solution in the Treatment of Herpes Epithelial Keratitis" (\$21,640) 10/1/96-continues. Principal Investigator.
24. Senju Pharmaceuticals: "A Double-Masked, Randomized Study to Compare the Efficacy and Safety of CT-112 Ophthalmic Suspension versus Placebo for Diabetic Corneal Epithelioplasty" (\$11,333) 4/15/95-continues. Principal Investigator.
25. Jaeb Center for Health Research: Corneal Donor Study; Evaluation of the Efficacy of Older Corneal Donor Tissue (\$1,800,000) 1999 and continues. Co-Principal Investigator.

Professional Societies

American Academy of Ophthalmology
American Board of Ophthalmology, Diplomate
American Medical Association
American Ophthalmological Society
Association for Research in Vision and Ophthalmology
Castroviejo Cornea Society
Cincinnati Society of Ophthalmology
Eye Bank Association of America
Hennepin County Medical Society
Iowa Eye Association
Midwest Cornea Association
Minneapolis Ophthalmological Society
Minnesota Academy of Ophthalmology and
Otolaryngology
Minnesota State Medical Society
Ocular Microbiology and Immunology Group
Paton Society
The Society of Heed Fellows
American Society of Cataract and Refractive Surgery
International Ocular Surface Society

Medical School and Hospital Activities

1986-1987	National Institutes of Health: Laser Committee
1986-1987	National Institutes of Health: Quality Assurance Committee
1989-1991	Ophthalmology Course for Second Year Medical Students, University of Minnesota Medical School: Director
1992-1994	University of Minnesota Hospital: Strategic Planning Task Force Committee
1994-1996	University of Minnesota: Ambulatory Surgery Center Committee
1995-1997	University of Minnesota Hospital and Clinic (FORT): Faculty Organization and Relationship Task Force
1987-2000	University of Minnesota Medical School: Medical Student Advisor
1989-2000	University of Minnesota Medical School: Interviewer
1993-2000	University of Minnesota Hospital and Clinic: Operating Room Committee

Scientific Reviewer

1991-Present	American Journal of Ophthalmology
1992-Present	Ophthalmology Investigative Ophthalmology and Visual Science Cornea Current Eye Research.
1994-Present	Archives of Ophthalmology

Editorial Board

1996-Present	Cornea
2001-Present	Ophthalmic Case Consultations

Post Graduate Courses

1. Penetrating Keratoplasty Course. Department of Ophthalmology, University of Minnesota, July 1987, 1988.
2. A Survey of Viscoelastic Materials and Their Use in Anterior Segment Surgery. S.S. Lane, E.J. Holland, R.L. Lindstrom, American Academy of Ophthalmology, Las Vegas, Nevada, 1988, New Orleans, Louisiana, 1989, Atlanta, Georgia, 1990.
3. Anterior Segment Immunology and Infectious Disease. Minneapolis, Minnesota, April, 1989. (Course Director)
4. American Academy of Ophthalmology Regional Update Course. Minneapolis, Minnesota, May, 1991. (Course Director)
5. Physician's Program, Eye Bank Association of America, Annual Meeting. Marco Island, Florida, June, 1991. (Course Director).
6. Eye Bank Association of America Annual Scientific Session, Anaheim, California, October, 1991. (Session Chair).
7. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course. Anaheim, California, October 1991. (Course Director)
8. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Laboratory Course. Anaheim, California, October 1991. (Course Director)
9. Physician's Program, Eye Bank Association of America, Annual Meeting. Lake Tahoe, Nevada, June 1992. (Course Director)
10. Northern Eye Summer Symposium-Update Course. Brainerd, Minnesota, July 1992. (Course Director).

Post Graduate Courses cont'

11. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course. Dallas, TX, November 1992. (Course Director)
12. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Laboratory Course. Dallas, TX, November 1992. (Course Director)
13. Eye Bank Association of America Annual Scientific Session, Dallas, TX, November 1992. (Session chair).
14. Contact Lens Association of America Meeting, Immunology Symposium, Las Vegas, Nevada, January 1993. (Symposium Director)
15. Update on Corneal External Disease, Minneapolis, MN, April 1993. (Course director)
16. Northern Eye Summer Symposium - Update Course. Brainerd, MN, July 1993. (Course Director)
17. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course. Chicago, IL, November 1993. (Course Director)
18. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Laboratory Course. Chicago, IL, November 1993. (Course Director)
19. American Academy of Ophthalmology Skills Transfer Course. Didactic and Laboratory Course of Phacoemulsification. Palm Springs, CA, February 1994.
20. American Society of Cataract and Refractive Surgery, Transsclerally Sutured Posterior Chamber Lenses. Boston, MA, April 1994.
21. Cornea Federated Societies Meeting (Official Satellite Meeting of the 27th International Congress of Ophthalmology), Toronto, Ontario, Canada, June 1994. (Program Co-Chair)
22. Northern Eye Summer Symposium - Update Course. Brainerd, MN, July 1994. (Course Director)
23. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course. San Francisco, CA, October 1994. (Course Director)
24. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Laboratory Course. San Francisco, CA, October 1994. (Course Director)
25. Eye Bank Association of America, Physicians Program. Hilton Head, SC, June 1995. (Course Director)
26. American Academy of Ophthalmology Skills Transfer Course, Didactic and Laboratory Course of Phacoemulsification. Washington, D.C., September 1995.

Post Graduate Courses cont'

27. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course. Atlanta, Georgia, October 1995. (Course Director)
28. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Laboratory Course. Atlanta, Georgia, October 1995. (Course Director)
29. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course. Chicago, IL, October 1996. (Course Director)
30. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Laboratory Course. Chicago, IL, October 1996. (Course Director)
31. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic and Laboratory Course. Philadelphia, PA, September 1997. (Course Director)
32. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course. San Francisco, CA, October 1997. (Course Director)
33. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Laboratory Course. San Francisco, CA, October 1997. (Course Director)
34. American Academy of Ophthalmology, Advanced Phacoemulsification, Cornea and Glaucoma Surgery Course. AAO Special Focus Course, Palm Springs California. February 1998. (Course Director)
35. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course. New Orleans, LA, November 1998 (Course Director)
36. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Laboratory Course. New Orleans, LA, November 1998. (Course Director)
37. American Academy of Ophthalmology, Current Concepts and New Techniques in Corneal Transplantation course. Orlando, FL, October 1999. (Instructor)
38. American Academy of Ophthalmology, Advanced Phacoemulsification course, Orlando, FL, October 1999. (Instructor)
39. American Academy of Ophthalmology, Advanced Keratoplasty Techniques Didactic Session, Orlando, FL, October 2002. (Course Director)
40. American Academy of Ophthalmology, Advanced Keratoplasty Techniques Laboratory course, Orlando, FL, October 2002. (Course Director)

Visiting Professor

1. Mt. Sinai Hospital, Detroit, MI, November 1989.
2. University of Washington, Seattle, WA, March 1990.
3. Case Western Reserve University, Cleveland, OH, April 1992.
4. Washington University, St. Louis, MO, October 1993.
5. Catholic Medical Center, New York, NY, January 1994.
6. Cornell University, New York, NY, January 1994.
7. Seoul National University, Seoul, Korea, September 1994.
8. New York Eye and Ear Infirmary, New York, NY, December 1994.
9. William Beaumont Hospital, Detroit, Michigan, January 1995.
10. Emory University, Atlanta, Georgia, June 1996.
11. University of British Columbia, Vancouver, April 1997.
12. Tokyo Dental College, Tokyo, Japan, October 1997.
13. Long Island Jewish Medical Center, New York, November 1997.
14. University of California-Davis, Sacramento, California, January 1998.
15. Manhattan Eye, Ear & Throat Hospital, New York City, New York, April 1998.
16. Cleveland Clinic, Cleveland, Ohio, September 1998.
17. Wake Forest University, Winston-Salem, North Carolina, January 1999.
18. University of Kentucky, Lexington, Kentucky, September 2000.
19. University of Pittsburgh, Pittsburgh, Pennsylvania, December 2000.
20. University of Toronto, Toronto, Ontario, Canada, January 2001.
21. University of Alberta, Alberta, Edmonton, Canada, May 2003.

Presentations

1. HLA-B27, Klebsiella pneumoniae and the relation to acute anterior uveitis. ARVO meeting, Sarasota, FL, May, 1981.
2. Evaluation of the major histocompatibility antigens in corneal allograft rejection using a heteroptopic murine model. ARVO meeting, Sarasota, FL, May, 1984.
3. The effect of organ culture cornea preservation on Langerhans cells. ARVO meeting, Sarasota, FL, May, 1985.
4. Corneal thickness in keratoconus. ARVO meeting, Sarasota, FL, May, 1986.
5. Clinical and immunohistologic studies of corneal rejection in the rat penetrating keratoplasty model. ARVO meeting, Sarasota, FL, May, 1987.
6. Suramin Keratopathy, American Academy of Ophthalmology Annual Meeting, Dallas, TX, October, 1987.
7. Kinetics of Corneal Transplant Rejection in the Rat Penetrating Keratoplasty Model. ARVO meeting, Sarasota, FL, May, 1988.
8. Corneal Transplantation: Preoperative Evaluation and Surgical Technique. Midwest Region Continuing Education Program for Ophthalmic Technicians, St. Paul, Minnesota, May, 1988.
9. Diagnosis and Treatment of Ocular Inflammatory Disease. Midwest Region Continuing Education Program for Ophthalmic Technicians, St. Paul, Minnesota, May, 1988.
10. Infectious keratitis in Contact Lens Wearers. Advanced Contact Lens Symposium. Minneapolis, Minnesota, August, 1988.
11. Ligneous Conjunctivitis: Immunohistologic Findings and a New Treatment. Ocular Microbiology and Immunology Group meeting, Las Vegas, NV, October, 1988.
12. Corneal Transplant Rejection. Department of Ophthalmology, University of Minnesota Continuing Medical Education Course, Minneapolis, MN, April, 1989.
13. Surgical Decisions in Anterior Segment Inflammatory and Infectious Disease. Department of Ophthalmology, University of Minnesota Continuing Medical Education Course, Minneapolis, MN, April, 1989.
14. Studies in Corneal Transplant Rejection. U.S. Japan Ocular Immunology Symposium, Honolulu, Hawaii, April, 1989.

Presentations (Continued)

15. Human Corneal Endothelial Transplantation in the Rat Penetrating Keratoplasty Model. ARVO meeting, Sarasota, FL, May, 1989.
16. Modification of Corneal MHC Antigen Expression by Various Corneal Storage Methods. North Central Regional Eye Bank Meeting, Minneapolis, Minnesota, August, 1989.
17. Surgical Correction of Juvenile Aphakia. American Academy of Ophthalmology, Annual Meeting, New Orleans, Louisiana, November, 1989.
18. Differential Diagnosis of Cornea and External Inflammation. Department of Medicine Grand Rounds, University of Minnesota, Minneapolis, Minnesota, November, 1989.
19. Ocular Manifestations of Rheumatologic Disease. Rheumatology Conference, University of Minnesota, Minneapolis, Minnesota, January 31, 1990.
20. Anterior Segment Trauma. Department of Ophthalmology, University of Minnesota Continuing Medical Education Course, April, 1990.
21. What's New in Corneal Transplant Rejection, North Central Regional Eye Bank Meeting, Madison, Wisconsin, May, 1990.
22. Cyclosporin in Anterior Segment Inflammatory Disease. Eye Bank Association of America Annual Meeting, Seattle, Washington, June, 1990.
23. Anterior Stromal Infiltrates in Acanthamoeba Keratitis. Twenty-fourth Annual Ocular Microbiology and Immunology Group, Atlanta, Georgia, October, 1990.
24. Avellino Corneal Dystrophy. The Castroviejo Cornea Society Sixteenth Annual Meeting, Atlanta, Georgia, October, 1990.
25. An Evaluation of Mizoribine and Cyclosporine in the Rat Penetrating Keratoplasty Model. ARVO meeting, Sarasota, FL, May, 1991.
26. Corneal Transplantation in the Pediatric Age Group. Department of Ophthalmology, University of Minnesota Continuing Medical Education Course, Minneapolis, Minnesota, April, 1991.
27. Herpes Simplex Keratitis. American Academy of Ophthalmology Regional Update Course, Minneapolis, Minnesota, June, 1991.
28. Update in Keratoplasty Techniques. American Academy of Ophthalmology Regional Update Course, Minneapolis, Minnesota, June, 1991.

Presentations (Continued)

29. Management of Pseudophakic Corneal Edema. EBAA Annual Meeting, Marco Island, Florida, June, 1991.
30. Clinical Results of Topical Cyclosporine in Anterior Segment Inflammatory Disease. The Castroviejo Corneal Society 17th Annual Meeting, Anaheim, California, October, 1991.
31. Collagen Vascular Disease. American Academy of Ophthalmology Annual Meeting, Anaheim, California, October, 1991.
32. The Synergistic Action of Cyclosporin A and 15-Deoxyspergualin: Prolongation of Allograft Survival in the Rat Orthotopic Penetrating Keratoplasty Model. ARVO Meeting, Sarasota, Florida, May, 1992.
33. High Risk Keratoplasty. EBAA Annual Meeting, Lake Tahoe, Nevada, June, 1992.
34. Update on Transscleral-sutured Posterior Chamber Lenses. Northern Eye Summer Symposium. Brainerd, Minnesota, July, 1992.
35. Conjunctival Transplant and Keratoepithelioplasty. American Academy of Ophthalmology, Advanced Anterior Segment Surgery Didactic Course, Dallas, TX, November, 1992.
36. Peripheral Corneal Thinning Disorders. Department of Ophthalmology, University of Minnesota, Continuing Medical Education Course, Minneapolis, MN, April, 1993.
37. Immunosuppressive Agents for Anterior Segment Inflammatory Disease. Department of Ophthalmology, University of Minnesota, Continuing Medical Education Course, Minneapolis, MN, April, 1993.
38. Conjunctival Transplant and Keratoepithelioplasty. Department of Ophthalmology, University of Minnesota, Continuing Medical Education Course, Minneapolis, MN, April, 1993.
39. Effect of Topically Administered Platelet-Derived Growth Factor on Corneal Wound Strength in Penetrating Keratoplasty. ARVO meeting, Sarasota, FL, May, 1993.
40. Discussion of Prospective Clinical Trial of Automated Lamellar Keratoplasty for the Reduction of Myopia and Hyperopia. American Academy of Ophthalmology, Chicago, IL, November, 1993.
41. Primary and Secondary Transsclerally Fixation of Posterior Chamber Lens. American Society of Cataract and Refractive Surgeons Annual Meeting, Boston, MA, April 1994.
42. Medical Standards Update in Eye Banking. Annual Meeting of the Eye Bank Association of America, Toronto, Canada, June 1994.

Presentations (Continued)

43. Gonioscopic Evaluation of Haptic Position in Transsclerally Fixated Posterior Chamber Lenses The Castroviejo Cornea Society Annual Meeting, San Francisco, CA, October, 1994.
44. Intraocular Lens Implantation in Juvenile Rheumatoid Arthritis. ARVO Meeting, Ft. Lauderdale, FL, May, 1995.
45. Corneal Transplantation in the Pediatric Patient. Department of Ophthalmology University of Minnesota Continuing Medical Education Course, Minneapolis, MN. May 1995.
46. Strategies for the Prevention of Corneal Transplant Rejection. Annual Meeting of the Eye Bank Association of America. Hilton Head, South Carolina. June 1995.
47. Limbal Stem Transplantation (discussion). American Academy of Ophthalmology, Annual Meeting, Atlanta, GA, October, 1995.
48. Keratolimbal Allograft for the Management of Ocular Surface Disease. Eye Bank Association of America annual meeting. Chicago, IL, October, 1996.
49. Surgical Options in the Management of Cornea and External Disease. Department of Ophthalmology University of Minnesota Continuing Medical Educational Course, Minneapolis, MN, April, 1997.
50. Update on Antivirals. Department of Ophthalmology University of Minnesota Continuing Medical Educational Course, Minneapolis, MN, April, 1997.
51. Iatrogenic Stem Cell Deficiency, American Ophthalmological Society, Monterey, CA, May, 1997.
52. Medical Standards Update, Eye Bank Association of America Annual Meeting, Palm Beach, FL, June, 1997.
53. Iatrogenic Stem Cell Deficiency. American Ophthalmological Society Annual Meeting. Monterey, CA, May, 1997.
54. Overview of the Eye Bank Association of America Medical Standards, EBAA Annual Meeting, Palm Beach Florida, June, 1997.
55. Epithelial Transplantation for the Management of Severe Ocular Surface Disease. Castroviejo Cornea Society Symposium, American Academy of Ophthalmology, San Francisco, CA, October, 1997.
56. Update on Techniques for Transsclerally Sutured Posterior Chamber Lenses. American Academy of Ophthalmology, Advanced Anterior Segment Course. Palm Springs, California, February, 1998.

Presentations (Continued)

57. Ocular Surface Transplantation Autograft Procedures. American Academy of Ophthalmology, Advanced Anterior Segment Course. Palm Springs, California, February, 1998.
58. Ocular Surface Transplantation Allograft Procedures. American Academy of Ophthalmology, Advanced Anterior Segment Course. Palm Springs, California, February, 1998.
59. Surgical Decisions in the Management of Ocular Surface Disease. American Academy of Ophthalmology, Advanced Anterior Segment Course. Palm Springs, California, February, 1998.
60. Diagnosis and Treatment of Ulcerative Keratitis. Department of Ophthalmology University of Minnesota Continuing Medical Educational Course, Minneapolis, MN, March, 1999.
61. Improving Outcomes of Ocular Surface Disease. Castroviejo Cornea Society Symposium, American Academy of Ophthalmology, Orlando, Florida, October 1999.
62. Living-Related Conjunctival-Limbal Allograft for the Treatment of Stem Cell Deficiency. Discussion. American Academy of Ophthalmology, October 1999.
63. Diffuse Lamellar Keratitis Related to Endotoxins Released from Sterilizer Reservoir Biofilms. Discussion. American Academy of Ophthalmology, October 1999.
64. Ocular Surface Reconstruction. American Academy of Ophthalmology, Dallas, Texas, October 2000.
65. Update on Ocular Surface Transplantation. 6th Annual Ophthalmology Clinical Conference and Research Symposium, March, 2001.
66. Treating Corneal Diseases with Lotepredinol Etabonate. ASCRS meeting, San Diego, California, April, 2001.
67. Medical Advisory Board Summary. Eye Bank Association of America 40th Annual Meeting, Tucson, Arizona, June, 2001.
68. Microbial Keratitis. Refractive Surgery 2001 Subspecialty Day meeting, American Academy of Ophthalmology, New Orleans, Louisiana, November 2001.
69. Combination KLAL and LR-CLAL for Severe Conjunctival and Limbal Stem Cell Deficiency. The Castroviejo Cornea Society, New Orleans, Louisiana, November 2001.

Presentations (Continued)

70. Management of the Unhappy Refractive Surgery Patient. Castroviejo Cornea Symposium, American Academy of Ophthalmology, New Orleans, Louisiana, November 2001.
71. Herpes Simplex Keratitis: Classification and Diagnosis. Castroviejo Cornea Symposium, São Paulo, Brazil, February 2002.
72. Strategies for Ocular Surface Transplantation. Symposium of the International Ocular Surface Society (IOSS), São Paulo, Brazil, February 2002.
73. Future Trends in the Management of Cornea and External Disease. Symposium of the International Ocular Surface Society (IOSS), São Paulo, Brazil, February 2002.
74. Opportunistic Infections. ASCRS Meeting, Philadelphia, Pennsylvania, June 2002.
75. Medical Advisory Board Summary. Eye Bank Association of America 41st Annual Meeting, June 2002.
76. Advanced Keratoplasty Technique. American Academy of Ophthalmology, Advanced Didactic Course. Orlando, Florida, October, 2002.
77. Advanced Keratoplasty Technique. American Academy of Ophthalmology, Advanced Lab Course. Orlando, Florida, October, 2002.
78. What's New in Corneal Transplants?. Castroviejo Cornea Society Symposium. American Academy of Ophthalmology, Orlando, Florida, October, 2002.
79. Microbial Keratitis. LEO Clinical Update Course, Cornea and External Disease, American Academy of Ophthalmology, Orlando, Florida, October, 2002.
80. Microbial Keratitis. LEO Clinical Update Course, Cornea and External Disease, American Academy of Ophthalmology, Orlando, Florida, October, 2002.
81. Persistent Epithelial Defects and Ocular Surface Reconstruction. LEO Clinical Update Course, Cornea and External Disease, American Academy of Ophthalmology, Orlando, Florida, October, 2002.
82. Ocular Surface Transplantation. Symposium, ASCRS meeting, San Francisco, California, April 2003.
83. When to Remove the Cataract: Combined vs. Staged Procedures. Symposium, ASCRS meeting, San Francisco, California, April 2003.

Invited Lectures

1. Major Histocompatibility Antigens in Corneal Graft Rejection. National Eye Institute, National Institutes of Health, Bethesda, Maryland, April, 1985.
2. Treatment of Ocular Inflammatory Disease. Walter Reed Army Medical Center, Washington, D.C., December, 1986.
3. Corneal Transplantation. Mount Sinai Hospital, Minneapolis, Minnesota, March, 1988.
4. Immunosuppressive Agents in Anterior Segment Disease. Minneapolis Ophthalmological Society, Minneapolis, Minnesota, April, 1988.
5. Trauma of the Anterior Segment. Mount Sinai Hospital, Minneapolis, Minnesota, May, 1988.
6. Immunology of the Anterior Segment. University of Alabama-Birmingham, June, 1988.
7. Corneal Transplant Rejection. University of Alabama-Birmingham, June, 1988.
8. Immunosuppressive Agents in Anterior Segment Inflammation. University of Alabama-Birmingham, June, 1988.
9. Immunology of Corneal Transplant Rejection. University of California-Davis, Sacramento, CA, July, 1988.
10. Suture Materials in Corneal Surgery. University of Kentucky, Lexington, KY, April, 1989.
11. Differential Diagnosis of Ocular Inflammation. Department of Medicine Grand Rounds, Abbott Northwestern Hospital, Minneapolis, MN, June, 1989.
12. Corneal Dystrophies. Sinai Hospital, Detroit, Michigan, November, 1989.
13. Management of Anterior Segment Inflammatory Disease. Sinai Hospital, Detroit, Michigan, November, 1989.
14. Diagnosis and Management of Corneal Dystrophies. University of Washington, Seattle, Washington, March, 1990.
15. Corneal Transplant Rejection: Treatment and Prevention. University of Washington, Seattle, Washington, March, 1990.
16. Suturing in the PC IOL: When, Where, How, and Why. Eleventh Annual Ophthalmology Clinical Conference, Morgantown, West Virginia, October, 1990.

Invited Lectures (Continued)

17. Corneal Complications of Cataract Surgery. Eleventh Annual Ophthalmology Clinical Conference, Morgantown, West Virginia, October, 1990.
18. Management of Anterior Segment Inflammatory Disease. Eleventh Annual Ophthalmology Clinical Conference, Morgantown, West Virginia, October, 1990.
19. Cyclosporin in the Treatment of Anterior Segment Inflammatory Disease. Indiana University, Indianapolis, Indiana, November, 1990.
20. Management of Herpes Simplex Keratitis. Cornea Conference, Department of Ophthalmology, Albany Medical College, Albany, New York, April, 1991.
21. Transsclerally Sutured PCL. Cornea Conference, Department of Ophthalmology, Albany Medical College, Albany, New York, April, 1991.
22. Topical Cyclosporine. Third Annual University of Illinois-Chicago Eye Center Meeting, Chicago, Illinois, September, 1991.
23. Blepharitis and Conjunctivitis. Third Annual University of Illinois-Chicago Eye Center Meeting, Chicago, Illinois, September, 1991.
24. Corneal Graft Rejection. Third Annual University of Illinois-Chicago Eye Center Meeting, Chicago, Illinois, September, 1991.
25. Immunosuppressive Agents for Anterior Segment Inflammatory Disease. Washington State Medical Association, Annual Meeting, Seattle, Washington, September, 1991.
26. Clinical Results of Topical Cyclosporine in Anterior Segment Inflammatory Disease. Washington State Medical Association, Annual Meeting, Seattle, Washington, September, 1991.
27. The Future of Topical Immunosuppressives in Ophthalmology. Washington State Medical Association, Annual Meeting, Seattle, Washington, September, 1991.
28. Topical Cyclosporine A. University of Kentucky, Department of Ophthalmology, Lexington, Kentucky, November, 1991.
29. Corneal Dystrophies. University of Kentucky, Department of Ophthalmology, Lexington, Kentucky, November, 1991.
30. Immunosuppressive Agents for Anterior Segment Inflammatory Disease. University of Kentucky, Department of Ophthalmology, Lexington, Kentucky, November, 1991.

Invited Lectures (Continued)

31. Transsclerally Sutured Posterior Chamber Lenses. Minneapolis Ophthalmological Society, Minneapolis, Minnesota, December, 1991.
32. Corneal Graft Rejection and Management of PK Complications. 1992 Cornea and External Disease Course, Miami, FL, 1992.
33. Surgical Options for Secondary IOL/IOL Exchange. 1992 Cornea & External Disease Course, Miami, FL, January, 1992.
34. Immunosuppressive Agents in Anterior Segment Inflammatory Disease. Case Western Reserve University, Cleveland, OH, April, 1992.
35. Management of the Lens in Anterior Segment Trauma. Seventh Annual National Eye Trauma Symposium, Kansas City, MO, September, 1992.
36. Anterior Segment Reconstruction. Seventh Annual National Eye Trauma Symposium, Kansas City, MO, September, 1992.
37. Clinical Findings in Herpes Simplex Keratitis. Minneapolis Ophthalmologic Society, Minneapolis, MN, November, 1992.
38. Topical Cyclosporin A. Mayo Clinic, Rochester, MN, May, 1993.
39. Documenting the Medical Director's role in the Eye Bank, Eye Bank Association of America. annual meeting, San Diego, CA, June, 1993.
40. EBAA Medical Standards Overview. Eye Bank Association of America annual meeting, San Diego, CA, June, 1993.
41. Management of Anterior Segment Inflammatory Disease. Annual Meeting of the Kentucky Medical Association, Louisville, KY, September, 1993.
42. Peripheral Corneal Thinning Disorders. Annual Meeting of the Kentucky Ophthalmological Society, Louisville, KY, September, 1993.
43. Conjunctival Transplantation and Keratoepithelioplasty. Annual Meeting of the Kentucky Ophthalmological Society. Louisville, KY, September, 1993.
44. Immunosuppressive Agents in Anterior Segment Inflammatory Disease. Cornea/Glaucoma Update Meeting, Indiana University, Indianapolis, IN, October, 1993.
45. Indications and Techniques of Transsclerally Sutured Posterior Chamber Lens. Cornea/Glaucoma Update Meeting, Indiana University, Indianapolis, IN. October, 1993.
46. The Management of Chemical Burns. Cornea/Glaucoma Update Meeting, Indiana University, Indianapolis, IN. October, 1993.

Invited Lectures (Continued)

47. Topical Cyclosporine: Safety and Efficacy. Washington University, St. Louis, MO. October, 1993.
48. Herpes Simplex Keratitis: Clinical Spectrum and Management. Washington University, St. Louis, MO. October, 1993.
49. Diagnosis and Management of Corneal Disease. Washington University, St. Louis, MO. October, 1993.
50. Conjunctival Transplantation and Keratoepithelioplasty. St. Louis Ophthalmologic Society, St. Louis, MO. October, 1993.
51. Update on Management of Herpes Simplex Keratitis. Illinois Society of Ophthalmology and Otolaryngology, Galesburg, IL. October, 1993.
52. Transsclerally Sutured Posterior Chamber Lens. Illinois Society of Ophthalmology and Otolaryngology, Galesburg, IL. October, 1993.
53. Conjunctival Transplantation and Keratoepithelioplasty. Illinois Society of Ophthalmology and Otolaryngology, Galesburg, IL. October, 1993.
54. Peripheral Corneal Thinning Disorders. Illinois Society of Ophthalmology and Otolaryngology, Galesburg, IL. October, 1993.
55. Immunosuppressive Agents for Anterior Segment Inflammatory Disease. Illinois Society of Ophthalmology and Otolaryngology, Galesburg, IL. October, 1993.
56. Clinical Presentations of Herpes Simplex Virus. Catholic Medical Center, New York, NY. January, 1994.
57. Management of Ocular Surface Disease. Catholic Medical Center, New York, NY. January, 1994.
58. Clinical Presentations of Herpes Simplex Virus. Department of Ophthalmology, Cornell University, New York, NY. January, 1994.
59. Conjunctival Stem Cell Transplantation. Iowa Eye Annual Meeting, University of Iowa, Iowa City, IA. June, 1994.
60. Special Considerations in Cataract Surgery. Iowa Eye Annual Meeting, University of Iowa, Iowa City, IA. June, 1994.
61. Corneal Epithelial Stem Cell Transplantation. Korean Ophthalmologic Society Annual Meeting, Seoul, Korea, September, 1994.
62. Management of Herpes Simplex Keratitis. Ulsan University College of Medicine, Asan Medical Center, Department of Ophthalmology, Seoul, Korea, September, 1994.

Invited Lectures (Continued)

63. Topical Cyclosporine A. Seoul National University, Seoul, Korea, September, 1994.
64. Update on Transclerally Sutured Posterior Chamber Lenses. Wisconsin and Upper Michigan Ophthalmologic Society Annual Meeting, Wisconsin Dells, WI, September, 1994.
65. Management of Ocular Surface Disorders. Wisconsin and Upper Michigan Ophthalmologic Society Annual Meeting, Wisconsin Dells, WI, September, 1994.
66. Management of Limbal Stem Cell Deficiency Syndromes. Michigan Ophthalmological Society, Detroit, MI, January, 1995.
67. Clinical Presentations of Herpes Simplex Keratitis. Mayo Clinic, Rochester, MN, April 1995.
68. Epithelial Transplantation for the Management of Severe Ocular Surface Disease. World Congress of the Cornea IV. Orlando, Florida, April 1996.
69. Classification Epithelial Transplantation Procedures for the Management of Severe Ocular Surface Disease. Ocular Surface Anterior Workshop. Bascom Palmer Eye Institute. Miami, Florida, April, 1996.
70. Peripheral Corneal Thinning Disorders. New England Ophthalmological Society Meeting. Boston, Massachusetts, October, 1996.
71. Immune Stromal Keratitis. New England Ophthalmological Society Meeting. Boston, Massachusetts, October, 1996.
72. Unusual Clinical Presentations of Herpes Simples Keratitis. Biennial Cornea Conference. Wills Eye Hospital. Philadelphia, PA, December, 1996.
73. Penetrating Keratoplasty and Intraocular Lens Exchange - the case for sutured posterior chamber lenses. Wills Eye Hospital. Philadelphia, PA, December, 1996.
74. Epithelial Transplantation for Severe Ocular Surface Disease. Wills Eye Hospital. Philadelphia, PA, December, 1996.
75. Topical Cyclosporine and Systemic Immunosuppression for Severe Anterior Segment Disease and High Risk Penetrating Keratoplasty. Wills Eye Hospital. Philadelphia, PA, December, 1996.
76. Gift of Life Organ, Tissue and Eye Donation: Update "97", United Hospital, St. Paul, MN, January 14, 1997.
77. Epithelial Transplantation Procedures. Utah Ophthalmological Society, Salt Lake City, UT, January 1997.

Invited Lectures (Continued)

78. Herpes Simplex Keratitis. Utah Ophthalmological Society, Salt Lake City, UT, January 1997.
79. Immunosuppressive Agents for Anterior Segment Inflammatory Disease. The University of British Columbia, Vancouver, British Columbia, April, 1997.
80. Epithelial Transplantation for the Management of Severe Ocular Surface Disease. The University of British Columbia, Vancouver, British Columbia, April, 1997.
81. Treatment of viral keratitis. The University of British Columbia, Vancouver, British Columbia, April, 1997.
82. Herpes Simplex Keratitis. Kyoto Prefecutral University of Medicine, Kyoto, Japan, October 14, 1997.
83. Medical Standards for Safe Corneal Transplantation. The Second International Eye Bank Symposium, Tokyo, Japan October 19, 1997.
85. Limbal Transplantation. Tokyo Dental College, Ichikawa General Hospital, Tokyo, Japan, October 20, 1997.
86. Classification of Herpes Simplex Keratitis. Kansas City Society of Ophthalmology and Otolaryngology, Kansas City, MO, December 4, 1997.
87. Treatment of Herpes Simplex Keratitis. Kansas City Society of Ophthalmology and Otolaryngology, Kansas City, MO, December 4, 1997.
88. Peripheral Corneal Thinning Disorders. Kansas City Society of Ophthalmology and Otolaryngology, Kansas City, MO, December 4, 1997.
89. Immunosuppressive Agents for the Treatment of Anterior Segment Inflammatory Conditions. Kansas City Society of Ophthalmology and Otolaryngology, Kansas City, MO, December 4, 1997.
90. Treatment of Ocular Surface Disease. Kansas City Society of Ophthalmology and Otolaryngology, Kansas City, MO, December 4, 1997.
91. Corneal Transplant Rejection. Kansas City Society of Ophthalmology and Otolaryngology, Kansas City, MO, December 4, 1997.
92. Keratolimbal Allograft. Long Island Jewish Medical Center. Great Neck, New York, November 19, 1997.
93. Management of Severe Ocular Surface Disease. Alta California Ophthalmology Society, Sacramento, California, January 15, 1998.
94. Herpes Simplex Keratitis: Classification. University of California, Davis Grand Rounds, Sacramento, California, January 16, 1998.

Invited Lectures (Continued)

95. Keratolimbic Allograft for the Management of Severe Ocular Surface Disease. University of California, Davis Grand Rounds, Sacramento, California, January 16, 1998.
96. Herpes Simplex Keratitis. Greater New York Ophthalmology Clinical Lecture Series, New York City, New York, April 29, 1998.
97. The Management of Herpes Simplex Keratitis. North Dakota Ophthalmological Society, Grand Forks, North Dakota, April, 1998.
98. Clinical Challenges in the Management of Adenoviral Ocular Infections. 2nd International Conference on Ocular Infections. Munich, Germany. August, 1998.
99. Surgical Management of Various Corneal External Diseases. Cleveland Clinic, Cleveland, Ohio, September 1998.
100. Stem Cell Transplantation for Severe Corneal Surface Disease. Cleveland Clinic, Cleveland, Ohio, September 1998.
101. Ocular Surface Reconstruction, Nippon University, Tokyo, Japan. September, 1998.
102. Bausch and Lomb Ocular Surface Symposium: The Management of Herpes Simplex Keratitis. Osaka, Japan. September, 1998.
103. Ocular Surface Reconstruction. Juntendo University, Tokyo, Japan. September, 1998.
104. Bausch and Lomb Ocular Surface Symposium: The Management of Herpes Simplex Keratitis. Tokyo, Japan. September, 1998.
105. The Pathogenesis of Corneal Graft Failure. The American Academy of Ophthalmology and the American Association of Ophthalmic Pathologists on "Diseases of the Cornea." University of South Florida, November, 1998.
106. Delayed Surgery for Traumatic Cataracts. American Academy of Ophthalmology, New Orleans, Louisiana, November 1998.
107. Oral Acyclovir for the Management of Herpes Simplex Virus (HSV) Infectious Epithelial Keratitis in Children. The Castroviejo Cornea Society, New Orleans, Louisiana, November 1998.
108. Keratolimbic Allograft (KLAL) for the Management of Aniridic Keratopathy. The Castroviejo Cornea Society, New Orleans, Louisiana, November 1998.
109. HSV Keratitis, Wake Forest University, Winston-Salem, North Carolina, January 1999.

Invited Lectures (Continued)

110. Ocular Surface Reconstruction, Wake Forest University, Winston-Salem, North Carolina, January 1999.
111. Management of Severe Ocular Surface Disease. Cincinnati Society of Ophthalmology, Cincinnati, OH, April 1999.
112. Diagnosis and Treatment of Viral Keratitis. Cincinnati Society of Ophthalmology. Cincinnati, OH, April 1999.
113. Reconstruction with Keratolimbal Allograft Technique. 4th Ocular Surface and Tear Conference, Bascom Palmer Eye Institute, Miami, FL, May 1999.
114. Chronic Conjunctivitis, San Diego Eye Bank, Current Concepts in Ophthalmology, San Diego, CA, July 1999.
115. Peripheral Ulcerative Keratitis Diagnosis and Management, San Diego Eye Bank, Current Concepts in Ophthalmology, San Diego, CA, July 1999.
116. Treatment of Herpes Simplex Keratitis, San Diego Eye Bank, Current Concepts in Ophthalmology, San Diego, CA, July 1999.
117. Stem Cell Transplantation in Severe Ocular Surface Disease, Grand Rounds, National Eye Institute, Bethesda, MD, August 1999.
118. Peripheral Ulcerative Keratitis, Sally Letson Symposium, University of Ottawa, Ottawa, Canada, September 1999.
119. Management of Ocular Surface Disease, Sally Letson Symposium, University of Ottawa, Ottawa, Canada, September 1999.
120. Corneal Degenerations, Pterygium and Tumors, Sally Letson Symposium, University of Ottawa, Ottawa, Canada, September 1999.
121. Keratolimbal Allograft for the Treatment of Limbal Stem Cell Deficiency. The Castroviejo Cornea Society Twenty-Fifth Annual Meeting, Orlando, FL, October, 1999.
122. The Evolution of Epithelial Transplantation for Ocular Surface Disease and a Proposed Classification System. Il trapianto di cornea complicato scientific session. Castiglione della Pescaia, Italy, October 1999.
123. The Success of the Eye Bank System in North America, III Pan-American Association of Eye Banks, Sao Paulo, Brazil, November 1999.
124. Clinical Manifestations of Herpes Simplex Keratitis, III Pan-American Association of Eye Banks, Sao Paulo, Brazil, November 1999.
125. Diagnosis and Management of Ocular Surface Disease. Phoenix Ophthalmological Society, Phoenix, AZ, December 1999.

Invited Lectures (Continued)

126. Ocular Surface Disease. Seattle Ophthalmologic Society, Seattle, Washington, February, 2000.
127. Diagnosis and Management of Peripheral Ulcerative Keratitis. Wills Eye Hospital, Philadelphia, Pennsylvania, April, 2000.
128. Ocular Surface Disease. Medical and Surgical Management. Wills Eye Hospital, Philadelphia, Pennsylvania, April, 2000.
129. Systemic Immuno-Suppression and the Management of Stem Cell Transplantation. International Ocular Surface Society Annual Meeting, Guania, Brazil, April, 2000.
130. Surgical Management of Aniridic Keratopathy. Ocular Surface Symposium, Guania, Brazil, April, 2000.
131. Classification of Ocular Surface Transplantation. International Ocular Surface Society, Guania, Brazil, April, 2000.
132. Management of LASIK Complications. Chicago Ophthalmic Society, Chicago, Illinois, June, 2000.
133. Management of Post Keratoplasty Astigmatism. Chicago Ophthalmic Society, Chicago, Illinois, June, 2000.
134. Diagnosis and Therapy of Peripheral Ulcerative Keratitis. Chicago Ophthalmic Society, Chicago, Illinois, June, 2000.
135. ISPB Lecture: Ocular Surface Transplantation. Chicago Ophthalmic Society, Chicago, Illinois, June, 2000.
136. Management of Corneal Disease in the Next Millennium. Chicago Ophthalmic Society, Chicago, Illinois, June, 2000.
137. Treatment of LASIK Complications, Refractive Surgery and Refractive Aspects of Cataract Surgery. University of Cincinnati, Cincinnati, Ohio, June, 2000.
138. Surgical decision making for a Limbal Stem Cells Transplantation. Patologia della Superficie Oculare. Castiglione della Pescaia, Italy, October 2000.
139. Combined KLAL and CLAL videotape. Patologia della Superficie Oculare. Castiglione della Pescaia, Italy, October 2000.
140. Systemic immunosuppression following limbal stem cell transplantation. Patologia della Superficie Oculare. Castiglione della Pescaia, Italy, October 2000.

Invited Lectures (Continued)

141. Stem Cells Transplantation - Amniotic Membrane Transplantation. IX Oslo Symposium in Ophthalmology, Oslo, Norway, December 2000.
142. Ocular Surface Transplantation. Pittsburgh Ophthalmology Society, Pittsburgh, Pennsylvania, December 2000.
143. Herpes Simplex Keratitis. Pittsburgh Ophthalmology Society, Pittsburgh, Pennsylvania, December 2000.
144. Ocular Surface Transplantation. Ophthalmology Grand Rounds and Lectureship, University of Utah School of Medicine, John Moran Eye Center, Salt Lake City, Utah, January 2001.
145. Ocular Surface Transplantation. Visiting Professor Rounds, University of Toronto, Toronto, Ontario, Canada, January 2001.
146. Ocular Surface Transplantation. Nashville Academy of Ophthalmology, Nashville, Tennessee, January 2001.
147. Ocular Surface Transplantation. 44th Annual Postgraduate Symposium in Ophthalmology, Ohio State University, Columbus, Ohio, March 2001.
148. Herpes Simplex Keratitis. 44th Annual Postgraduate Symposium in Ophthalmology, Ohio State University, Columbus, Ohio, March 2001.
149. Management of Pterygium. 44th Annual Postgraduate Symposium in Ophthalmology, Ohio State University, Columbus, Ohio, March 2001.
150. Peripheral Ulcerative Keratitis: Diagnosis and Management. 44th Annual Postgraduate Symposium in Ophthalmology, Ohio State University, Columbus, Ohio, March 2001.
151. Update on Ocular Surface Transplantation. Minnesota Academy of Ophthalmology, St. Paul, Minnesota, April, 2001.
152. Ocular Surface Problems in Refractive Surgery. Rome Symposium on Cataract, Glaucoma and Refractive Surgery, May, 2001.
153. Peripheral Ulcerative Keratopathy: Diagnosis and Management. Thorny Issues in Ophthalmology Conference, June, 2001
154. Management of Ocular Surface Disease. Michigan Ophthalmological Society's 33rd Annual Conference, Grand Traverse, Michigan, August, 2001.
155. Diagnosis and Management of Peripheral Ulcerative Keratitis. Michigan Ophthalmological Society's 33rd Annual Conference, Grand Traverse, Michigan, August, 2001.

Invited Lectures (Continued)

156. Cornea Case Studies. Michigan Ophthalmological Society's 33rd Annual Conference, Grand Traverse, Michigan, August, 2001.
157. Algorithm for the Selection of Ocular Surface Transplantation Techniques. The Royal College of Ophthalmologists, Seminar Programme, Regents Park, London, England, September, 2001.
158. Immunosuppression in Ocular Surface Reconstruction. The Royal College of Ophthalmologists, Seminar Programme, Regents Park, London, England, September, 2001.
159. Stem Cell Transplantation, Keynote Lecture. 55th Congress of Clinical Ophthalmology of Japan, Kyoto, Japan, October, 2001.
160. Growth Transplantation: Indications for Surgery. 55th Congress of Clinical Ophthalmology of Japan, Kyoto, Japan, October, 2001.
161. Intraoperative Complications of LASIK Surgery. University of Toronto, Toronto, Ontario, Canada, December 2001.
162. Penetration in the Cornea Tissue and the Use of Fluoroquinolones in Keratoplasty. Ophthalmic Therapeutics: The Surgeon's Fluoroquinolone, Hawaii 2002 Waikoloa, Hawaii, January 2002.
163. Corneal Issues/Cataract Surgery. Ohio Ophthalmological Society Clinical Meeting, Columbus, Ohio, February 2002.
164. Ocular Surface Transplantation. Milwaukee Ophthalmological Society Meeting, Milwaukee, Wisconsin, March 2002.
165. HSV Keratitis. University of Wisconsin, Medical College Grand Rounds Lecture, Milwaukee, Wisconsin, March 2002.
166. Chronic Conjunctivitis. Memphis Eye Convention, University of Tennessee, Nashville, Tennessee, April 2002.
167. Management of Peripheral Ulcerative Keratitis. Memphis Eye Convention, University of Tennessee, Nashville, Tennessee, April 2002.
168. Herpes Simplex Keratitis. Memphis Eye Convention, University of Tennessee, Nashville, Tennessee, April 2002.
169. Strategies for Antibiotic Prophylaxis in Anterior Segment Surgery. 2002 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2002.
170. Herpes Simplex Keratitis: Classification and Treatment. 2002 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2002.

Invited Lectures (Continued)

171. Update on Ocular Surface Transplantation. 2002 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2002.
172. Management of Aniridia. 2002 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2002.
173. Clinical Aspects of Ocular Surface Stem Cell Transplantation. Stem Cells: What Are They and How Might They be Used for Ocular Disease Treatment Symposium, The American Ophthalmological Society One Hundred and Thirty-Eighth Annual Meeting, Sea Island, Georgia, May 2002.
174. Selection of the Appropriate Stem Cell Transplant Procedure. Stem Cell Restoration Symposium, Cornea 2002 Meeting, London, England, November 2002.
175. Post-operative Management Following Stem Cell Transplantation. Stem Cell Restoration Symposium, Cornea 2002 Meeting, London, England, November 2002.
176. Management of Ocular Surface Disease. Frontiers in Ophthalmology 2003 Conference, Paradise Valley, Arizona, February 2003.
177. Management of Microbial Keratitis. Frontiers in Ophthalmology 2003 Conference, Paradise Valley, Arizona, February 2003.
178. LASIK Complications. Frontiers in Ophthalmology 2003 Conference, Paradise Valley, Arizona, February 2003.
179. Principals of Management and Choice of Procedures. The Royal College of Ophthalmologists Annual Congress, Birmingham, England, May 2003.
180. Peripheral Corneal Thinning Disorders. 2003 Resident Research Day, Department of Ophthalmology, University of Alberta, Edmonton, Canada, May 2003.
181. HSV Keratitis. 2003 Resident Research Day, Department of Ophthalmology, University of Alberta, Edmonton, Canada, May 2003.
182. Ocular Surface Transplantation. 2003 Resident Research Day, Department of Ophthalmology, University of Alberta, Edmonton, Canada, May 2003.
183. Pro/Con: Intralase vs. Microkeratomes. 2003 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2003.
184. Pro/Con: CK vs. LASIK. 2003 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2003.

Invited Lectures (Continued)

185. Bacterial Infections after RK, PRK, and LASIK. 2003 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2003.
186. Superior Corneal Epitheliopathy. 2003 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2003.
187. What's New in Ocular Antibiotics Part 1. 2003 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2003.
188. Management of HSV Keratitis. 2003 Clinical Update Meeting, Storm Eye Institute, Charleston, South Carolina, May 2003.
189. The Ocular Surface and The Refractive Surgery. II Congresso Nazionale S.I.C.S.S.O. XV I.O.S.S. Interantional Meeting, Erice, Sicily, Italy, June 2003.
190. Ocular Surface Transplantation. Innovative Surgery in Selective Corneal Transplantation and Ocular Surface Repair Symposium. Fourteenth Congress of the European Society of Ophthalmology, Madrid, Spain, June 2003.
191. Keratolimbic Allograft: Suggested Techniques and Tissue needs. Technician Forum Luncheon, 42nd Annual Eye Bank Association of America Meeting, Washington, D.C. June 2003.S.I.C.S.S.O. XV I.O.S.S. International Meeting, Erice, Sicily, Italy, June 2003.
192. Corneal Complications of Cataract Surgery. Eye On Napa 2003: Prevention and Management of Complications in Ophthalmic Surgery. The 26th Annual Ophthalmology Symposium and Resident's Day, Napa, California, June 2003.
193. Peri-operative Antimicrobial Prophylaxis for Anterior Segment Surgery. The 26th Annual Ophthalmology Symposium and Resident's Day, Napa, California, June 2003.

Named Lectureship

1. Illinois Society for the Prevention of Blindness Lecture: Ocular Surface Transplantation. Chicago, Illinois, June 2000.
2. The Arthur Culler Memorial Lecture. Ohio State University, 44th Annual Postgraduate Symposium in Ophthalmology, Columbus, Ohio, March 2001.
3. The 12th Annual George M. Kambara Distinguished Visiting Professorship Lecture. Ocular Surface Transplantation. Nashville, Tennessee, April 2002.

Books

1. Krachmer JH, Mannis MJ, and Holland EJ (eds.), Cornea, Mosby Year Book Publishers, St. Louis, 1997.
2. Holland EJ and Mannis MJ (eds.), Ocular Surface Disease: Medical and Surgical Management, Springer-Verlag Publishers, Philadelphia, November, 2001.

Book Chapters

1. Holland EJ: Reiter's Syndrome, in The Eye in Systemic Disease, D.H. Gold and T.A. Weingeist (eds.), J.B. Lippincott, Co., Philadelphia, 56-58, 1990.
2. Holland EJ, Lane SS, Lindstrom RL: Penetrating Keratoplasty, in Ophthalmic Surgery: A Looseleaf Workbook and Update Service, T. Lindquist (ed.), 5th Year Book Medical Publishers, Chicago, 1990.
3. Lane SS, Holland EJ, Lindquist T: Epikeratophakia in Ophthalmic Surgery: A Looseleaf Workbook and Update Service, T. Lindquist (ed.), 5th Year Book Medical Publishers, Chicago, 1990.
4. Van Meter WS, Holland EJ, DoughmanDJ: Corneal Edema, in Duane's Clinical Ophthalmology, I.R. Schwab (ed.), J.B. Lippincott, Co., Philadelphia, 1992.
5. Holland EJ, Olsen TW: Immunosuppression in High Risk Corneal Transplantation, in Corneal Surgery, F.S. Brightbill (ed.), C.V. Mosby Co., St. Louis, 1992.
6. Holland EJ: Massive Ocular Surface Trauma, in Masters of Ophthalmic Surgery, F. Roy (ed.), Mosby Year Book Publishers, St. Louis, 1995.
7. Holland EJ, Grimmitt MR, Lane SS: Penetrating Keratoplasty, in Ophthalmic Surgery: A Looseleaf Workbook and Update Service. T. Lindquist (ed.), 5th Year Book Medical Publishers, Chicago, 1995.
8. Djalilian AR, Holland EJ: Local Immunosuppression in Corneal Transplantation, in Local Immunosuppression of Organ Transplants. S.A. Gruber (ed.), R.G. Landes Company, Austin, Texas, 1996.
9. Moyes AL, Hordinsky MK, Holland EJ: Ectodermal Dysplasia, in Eye and Skin Disease, M.J. Mannis, M.S. Macsai, A. C. Huntley (eds.), Lippincott-Raven Press, New York, NY, 1996.
10. Holland EJ, F.E. Palmon FE, Webster GF: Erythema Multiforme, Stevens-Johnson Syndrome, and Toxic Epidermal Necrolysis, in Eye and Skin Disease, M.J. Mannis, M.S. Macsai, A. C. Huntley (eds.), Lippincott-Raven Press, New York, NY, 1996.

Book Chapters (continued)

11. Holland EJ, Hardten DR: Stevens-Johnson Syndrome, in Pepose, J.S., in Ocular Infection and Immunity, G.N. Holland and K.R. Wilhelmus (eds.), Mosby Year Book Publishers, St. Louis, 1996.
12. Holland EJ: Ligneous Conjunctivitis, in Cornea, J.H. Krachmer, M.J. Mannis, and E.J. Holland (eds.), Mosby Year Book Publishers, St. Louis, 1997.
13. Holland EJ: Herpes Simplex, in Cornea, J.H. Krachmer, M.J. Mannis, and E.J. Holland (eds.), Mosby Year Book Publishers, St. Louis, 1997.
14. Probst LE, Holland EJ: Penetrating Keratoplasty and Intraocular Lens Exchange, in Cornea, J.H. Krachmer, M.J. Mannis, and E.J. Holland (eds.), Mosby Year Book Publishers, St. Louis, 1997.
15. Schwartz GS, Holland EJ: Management of Conjunctival and Corneal Neoplasia, in Cornea, J.H. Krachmer, M.J. Mannis, and E.J. Holland (eds.), Mosby Year Book Publishers, St. Louis, 1997.
16. Palmon F E , Webster GF, Holland EJ: Erythema Multiforme, Stevens-Johnson Syndrome, and Toxic Epidermal Necrolysis, in Cornea. J.H. Krachmer, M.J. Mannis, and E.J. Holland (eds.), Mosby Year Book Publishers, St. Louis, 1997.
17. Djalilian AR, Holland EJ: Immunosuppression in High Risk Keratoplasty, in Corneal Surgery, F. S. Brightbill (ed), Mosby Year Book Publishers, St. Louis, 3rd Edition, 1998.
18. Croasdale C, Holland EJ: Epithelial Transplantation in the Management of Severe Ocular Surface Disease, Corneal Surgery, F. S. Brightbill (ed), Mosby Year Book Publishers, St. Louis, 3rd Edition, 1998.
19. Schwartz GS, Holland EJ; Iatrogenic Limbal Stem Cell Deficiency, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.
20. Holland EJ, Schwartz GS: The Evolution and Classification of Ocular Surface Transplantation, Ocular Surface Disease: Medical and Surgical Management, E. J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.
21. Schwartz GS, Gomes JAP, Holland EJ: Preoperative Staging of Disease Severity, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.
22. Croasdale CR, Holland EJ, Mannis MJ: Conjunctival Limbal Allograft, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.

Book Chapters (continued)

23. Daya SM, Holland EJ, Mannis MJ: Living-Related Conjunctival Limbal Allograft, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.
24. Schwartz GS, Tsubota K, Tseng SCG, Mannis MJ, Holland EJ: Keratolimbal Allograft, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.
25. Croasdale CR, Schwartz GS, Malling JV, Holland EJ: Keratolimbal Allograft: Recommendations for Tissue Procurement and Preparation by Eye Banks, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.
26. Djalilian AR, Nussenblatt RB, Holland EJ: Immunosuppressive Therapy in Ocular Surface Transplantation, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.
27. Schwartz GS, Holland EJ: Etiology of Stem Cell Transplantation Failure, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.
28. Holland EJ, Mannis MJ, Schwartz GS: Developing a Logical Management Paradigm for the Clinical Management of Severe Ocular Surface Disease, Ocular Surface Disease: Medical and Surgical Management, E.J. Holland and M.J. Mannis (eds.), Springer-Verlag Publishers, New York, 2001.

Abstracts

1. Holland, E.J., Loren, A.B., O'Donnell, K.J., Spence, D.J., Tessler, H.H. and Yokoyama, M.M.: HLA-B27, Klebsiella pneumoniae and the relation to acute anterior uveitis. ARVO Abstracts. Invest. Ophthalmol. Visc. Sci. 20 (Suppl): 110, 1981.
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