

Michael S. Seward, M.D.

Great Lakes Eye Care
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Education

- University of Texas, Southwestern**, Dallas, Texas, 2001-2002.
One year fellowship in cornea, external eye disease, and refractive surgery.
- University of Kentucky**, Lexington, Kentucky, 1998-2001.
Three years of post-graduate training in the specialty of ophthalmology.
- Winthrop-University Hospital**, Mineola, New York, 1997-1998.
One year of post-graduate training in internal medicine.
- Medical College of Georgia**, Augusta, Georgia, 1993-1997.
Doctorate of Medicine, June 1997.
- Emory University**, Atlanta, Georgia, 1988-1992.
Bachelor of Science, May 1992. Majors in biology and history.

Certification Licenses, & Professional Activity

- Board certified by the American Board of Ophthalmology.
- Licensed in USA (Michigan, Indiana, Kentucky, and Texas), Zambia, and PNG.
- American Academy of Ophthalmology, 1997-present.
- Association for Research in Vision & Ophthalmology, 2001-present.
- American Society of Cataract and Refractive Surgeons, 1999-present.
- Christian Medical and Dental Association, 2002-present.
- Volunteer Eye Surgeons Association, 1999-2001.
- Students for Intercultural Medicine, Medical College of Georgia, founder and president 1993-1995; member 1995-1997.
- Students for Community Involvement, Medical College of Georgia, 1994-1995.

Work Experience

- Ophthalmologist**, private practice, Great Lakes Eye Care, St. Joseph, Michigan, 2002-present (including part-time from 2007 to 2014)
- Ophthalmologist**, humanitarian/development sector ophthalmology, CBM November 2007 through November 2014 (posted in Lusaka, Zambia from 2007 to 2010 and Goroka, PNG from 2010 to 2014).
- Assistant clinical professor**, University of Texas, Southwestern, Dallas, Texas, 2001-2002 (cornea fellowship).
- Ophthalmology resident**, University of Kentucky, Lexington, Kentucky, 1998-2001.
- Internal medicine resident**, Winthrop-University Hospital, Mineola, New York, 1997-1998.

Overseas Experience

I was employed by CBM full-time from 2007 to 2014, first for three years in Zambia and then in Papua New Guinea. CBM is an international Christian development organization that serves people with disabilities in developing countries. In PNG I helped training a national doctor (registrar) to perform cataract and other ophthalmic surgeries. I also served as lecturer at Chainama Health Sciences School for ophthalmic clinical officers in Zambia. In PNG, I trained a registrar ophthalmologist and supervised the building of a surgery center addition to our clinic.

Vision Outreach International short-term trip to Kigoma, Tanzania, April 17-29, 2006. I led a team of 8 volunteers from Michigan, U.S.A. to Kigoma, Tanzania. We screened approximately 800 patients and performed 60 (mainly) cataract surgeries. We were joined by a local ophthalmologist, Bernard Kajuna, MD, for two days.

Comprehensive Community Based Rehabilitation and Training Center, Dar es Salaam, Tanzania, April 3-12, 2006. I visited the eye department of the CCBRT hospital and assisted with patient care, including cornea transplant and cataract surgery.

Vision Outreach International short-term trip to Mattru, Sierra Leone, Feb. 18 to Mar. 4, 2005. I traveled with a team of 8 volunteers from Michigan, U.S.A. to Mattru, Sierra Leone. We screened approximately 500 patients and performed approximately 80 (mainly) cataract surgeries. I performed 30 of the cataract surgeries, and the team leader, David Brown, MD, performed the others. I also assisted Aiyor Fergusson, MD, with two cornea transplants at Kissy Eye Hospital in Freetown.

Personal educational trip to Santo Domingo, Dominican Republic, May 20-23, 2004. I observed and performed phakic intraocular lens implantation under the supervision of Juan Battle, MD.

Vision Outreach International teaching trip to El Progreso, Honduras, Feb. 3-6, 2003. I taught additional corneal transplantation techniques to Diego Mejia, MD, and proctored him for ten additional cases of penetrating keratoplasty.

Vision Outreach International teaching trip to El Progreso, Honduras, Aug 8-11, 2002. I taught corneal transplantation techniques to a local general ophthalmologist, Diego Mejia, MD, who serves the poor in El Progreso. I proctored him for six cases of penetrating keratoplasty.

Centenary United Methodist Church short-term mission trip to Ciudad del Est, Paraguay, Sept. 18-27, 1999. With a team of six people from my church in Lexington, Kentucky, we traveled to Paraguay and partnered with long-term missionaries from the Mission Society for United Methodists to perform optometric examinations and dispense donated spectacles.

Medical school ophthalmology rotation, *M/V Anastasis*, Lome, Togo, Dec. 1995. I observed and assisted Robert Dyer, MD, an ophthalmologist on board the Mercy Ship *M/V Anastasis*. It was during this one-month, elective rotation in my third year of medical school that I decided to become an ophthalmologist.

Youth with a Mission (YWAM) Discipleship Training School, *M/V Anastasis*, Oct. 1992 to Mar. 1993. This five-month program is designed to help students grow in their Christian faith.

**Research,
Publications
and
Presentations**

“Hyperbaric Oxygen Promotes Rabbit Conjunctival Healing.” *Journal of Toxicology—Cutaneous and Ocular Toxicology*, 17 (1), 71-79 (1988).

“A Pathological Perspective: The Splendor of the Cornea.” Presented at Ophthalmology Grand Rounds, University of Kentucky, Lexington, KY, Oct. 23, 1998.

“Inflammatory Disorders of the Sclera and Conjunctiva.” Presented at Ophthalmology Grand Rounds, University of Kentucky, Lexington, KY, Feb. 5, 1999.

“Congenital Hereditary Stromal Dystrophy—a Sporadic Case Report and Literature Review.” Presented at Resident’s Day Symposium, Department of Ophthalmology, University of Kentucky, Lexington, KY, June 30, 2000.

“The Control of Trachoma in Eastern Kentucky, 1910-1930.” Presented at the Third Annual Symposium on Ophthalmology in the Developing World, San Francisco, CA, March 26-30, 2001, and on permanent display at the Irving House Museum, Richmond, KY (curator David Greene).

“Bilateral Corneal Melt in a Rheumatoid Patient after YAG Laser and Use of Topical Diclofenac Sodium.” Presented at the annual meeting of the American Society of Cataract and Refractive Surgeons (ASCRS), San Diego, CA, April 28, 2001.

“Cataract Surgery Outcomes—A Look at My First Forty Cases by Patient Survey and Chart Review through Post-Operative Day 365.” Presented at Resident’s Day Symposium, Department of Ophthalmology, University of Kentucky, Lexington, KY, June 30, 2001.

“Lacrimal Disorders.” A class lecture for physician assistants in the School of Allied Health Sciences, Southwestern Medical Center, University of Texas, Dallas, TX, Sept. 14, 2001.

“Comparison of LADARVision and Visx Star S3 Outcomes in Myopia and Hyperopia.” Presented at the annual meeting of The Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, May 5-10, 2002. Also presented at the annual meeting of ASCRS, Philadelphia, PA, June 1-5, 2002.

“LASIK after RK.” Presented at the Joint Meeting of the Asociacion Latinoamericana de Cirujanos de Cornea, Catarata y Segmento Anterior (ALACCSA) and Advanced Innovations in Medicine (AIM), Oranjestad, Aruba, Sept. 5-7, 2002.

“Comparison of Results with the LadarVision, Visx Star S2, and Visx Star S3 in Hyperopic LASIK.” Presented (second author) at the annual meeting of ASCRS, San Francisco, CA, April 15, 2003.

“Results of LASIK in Patients with Previous RK.” Presented (second author) at the annual meeting of the ASCRS, San Francisco, CA, April 15, 2003.

“Hyperopic LASIK Results with LadarVision, Visx Star S2, and Visx Star S3.” Presented (6th author) at the annual meeting of The Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, May 6, 2003.

“Pearls for Managing Dry Eyes.” Presented at Great Lakes Eye Care Fall Education Seminar, a continuing education seminar for optometrists, Sept. 18, 2003.

“Comparison of LADARVision and Visx Star S3 laser *in situ* keratomileusis outcomes in myopia and hyperopia.” *J Cataract Refract Surg.* 2003;29(12): 2351-2357.

Investigator, Ista Pharmaceuticals-sponsored Protocol ISTA-BR-CS001; Phase III; 2003. A randomized, multi-center, double-masked, placebo-controlled, parallel group study of the efficacy and safety of topical bromfenac ophthalmic solution, 0.1% for treatment of ocular inflammation following cataract surgery.

Principal Investigator, Allergan-sponsored Protocol 195263-004-00; Phase II; 2003. A randomized, multi-center, double-masked, vehicle-controlled, parallel group study to evaluate the safety and efficacy of testosterone (0.01%, 0.03%, and 0.1%) ophthalmic solution administered twice daily for up to 6 months in patients with meibomian gland dysfunction.

“Ophthalmology: From Contacts to Cataracts.” Presented as part of a regional physician speaker series, a public lecture sponsored by Lakeland Health and Healing, March 2, 2004.

Principal Investigator, Inspire Pharmaceuticals, Inc. Protocol 03-109; Phase III; 2004. A randomized, multi-center, double-masked, parallel group, placebo-controlled study of multiple ocular instillations of diquafosol tetrasodium ophthalmic solution, 2% in patients with dry eye disease.

Principal Investigator, Holles Laboratories-sponsored Protocol HL 2002-01; an orphan drug; 2004. A randomized, multi-center, double-masked clinical trial to compare the investigational therapy of topical Dehydrex® to therapy with the topical lubricant Moisture Eyes™, a currently available treatment for recurrent corneal erosion syndrome.

“IOL Master versus Ultrasound Waterbath-Measured Holladay 2 Formula for Predicting Refractive Outcomes.” Presented at the annual meeting of ASCRS, Philadelphia, PA, April 17, 2004.

“Malignant PCO with a Hydrophobic Acrylic Posterior Chamber IOL.” Presented at the annual meeting of ASCRS, Philadelphia, PA, April 17, 2004.

“The Real Art of LASIK.” Presented at the Great Lakes Eye Care Spring Education Seminar, a continuing education seminar for optometrists, May 19, 2005.

Oral D, Awwad ST, Seward MS, et al. "Hyperopic laser in situ keratomileusis in eyes with previous radial keratotomy." *J Cataract Refract Surg.* 2005;31(8):1561–1568.

"Malignant Posterior Capsule Opacification." Presented at the annual meeting of the American Academy of Ophthalmology (AAO), Chicago, IL, Oct. 16, 2005.

"Topical Xibrom™ 0.09% Significantly Reduced Ocular Pain Following Cataract Surgery." Presented at the annual meeting of ARVO, Ft. Lauderdale, FL, April 30, 2006.

"Phakic IOLs." One hour lecture presented as part of a Lakeland Regional Health System's Continuing Medical Education Program for Community Physicians, January 18, 2007.

Investigator, Allergan Pharmaceuticals-sponsored Protocol 210669-010-00; Phase II; 2009. A 4-week, multicenter, double-masked, randomized, parallel study of the safety and efficacy of AGN-210669, 0.05%, 0.075%, and 0.1% ophthalmic solution, compared with Lumigan in patients with ocular hypertension or primary open-angle glaucoma.