

Scott G. Hauswirth, O.D., F.A.A.O.

University of Colorado School of Medicine
Sue Anschutz-Rodgers Eye Center
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CURRENT POSITIONS

Assistant Professor, Department of Ophthalmology, University of Colorado School of
Medicine
Director, Ocular Surface Center, Sue Anschutz-Rodgers Eye Center
Faculty, Center for Ocular Inflammation

EDUCATION

Institutions:

Aug 1990 - May 1995 University of North Dakota; Grand Forks, North Dakota
Bachelor of Science, Psychology
Aug 1995 - May 1999 Southern California College of Optometry; Fullerton,
California
Doctorate of Optometry

Externship Training:

May 1998 - Aug 1998 *Omni Eye Services, Denver, CO*
Aug 1998 - Nov 1998 *Anadarko Indian Health Service, Anadarko, OK*
Nov 1998 - Feb 1999 *Eye Clinic, Southern California College of Optometry,*
Fullerton, CA
Feb 1999 - May 1999 *Clayton Eye Center, Morrow, GA*

Residency Training:

July 1999 - July 2000 Pennsylvania College of Optometry; Minnesota Eye
Consultants, P.A., Minneapolis, Minnesota.
Cornea, Glaucoma, and Refractive Surgical Management
Attending Clinical Staff: Marlane Brown OD, David Hardten
MD, Richard Lindstrom MD, Thomas Samuelson MD

ACADEMIC APPOINTMENTS

Academic Appointments:

Jul 2006 - Jun 2017 Assistant Professor, Adjunct Clinical Faculty, Illinois
College of Optometry

Nov 2009 - Jun 2017 Assistant Professor, Adjunct Clinical Faculty, Marshall B Ketchum University
 Jan 2013 - Jun 2017 Adjunct Clinical Professor, InterAmerican University of Puerto Rico School of Optometry
 Jan 2014 - Jun 2017 Adjunct Clinical Faculty, Southern College of Optometry
 Jul 2017 - Assistant Professor, University of Colorado School of Medicine
 Jul 2017 - Director, Ocular Surface Center, Sue Anschutz-Rodgers Eye Center

Consulting Work:

Aug 2006 - present Advisor, Allergan, Inc.
 Mar 2008 - Apr 2011 Advisor, Inspire Pharmaceuticals
 Apr 2011 - Apr 2013 Advisor, ISTA Pharmaceuticals
 Jun 2011 - Jul 2014 Advisor, Bausch + Lomb
 Mar 2012 - Nov 2018 Advisor, BioTissue/TissueTech
 Nov 2012 - May 2018 Advisor, TearScience
 May 2018 - Oct 2019 Advisor, Johnson & Johnson
 Feb 2015 - present Advisor, Novarits
 Oct 2016 - present Advisor, Sun Pharmaceuticals
 Jan 2017 - present Medical Advisor/Investigator, TearRestore
 Jan 2017 - present Advisor, Glaukos
 Jun 2017 - Jun 2020 Advisor, Avedro, Inc
 Sep 2017 - Dec 2017 Advisor, Mentholatum Co.
 Feb 2018 - Dec 2019 Medical Advisor, Terrapin Ocular
 Oct 2018 - present Advisor, Sight Sciences
 Oct 2018 - present Advisor, Kala Pharmaceuticals
 Jun 2019 - Nov 2021 Advisor, EyeVance Pharmaceuticals
 Jun 2019 - Jun 2020 Advisor, EyePoint Medical
 Oct 2019 - present Advisor, Dompe
 Oct 2019 - Nov 2021 Advisor, Horizon Pharmaceuticals
 Oct 2019 - present Clinical Advisory Board, Science Based Health
 Oct 2019 - present Advisor, Ocular Therapeutix
 Feb 2020 - May 2021 Advisor, Hovione
 Jul 2020 - present Medical Advisory Board, NuSight Medical
 Oct 2020 - present Medical Advisor, TearRestore
 Feb 2021 - present Advisor, Oyster Point Pharma
 Sept 2021 - present Advisor, Thea Pharma

HONORS AND AWARDS

Recipient, University of North Dakota Athletic Directors Academic Award
 - 1990, 1991, 1992, 1993
 University of North Dakota Dean's List

- 1993, 1994

Cum laude graduation status, University of North Dakota
 SCCO Student Association Board: 1996-1998

- *Director of Extracurricular Activities, 1996-1997*
- *Invitee, UC Berkeley Partnerships in Optometry Conference, Feb 1997*
- *Director of Education, 1997-1998*
- *Chair, 1st Annual SCCO Partnerships in Optometry Conference, April 1998*

Recipient, Orange County Optometric Society Award 1997

- *For Outstanding Clinical Service*

Recipient, Rio Hondo Society AOSA Travel Fellowship 1998

- *For Community Service*

Recipient, Dr. Robert L. Gordon & Dr. Andrea C. Silvers Scholarship 1998
 Recipient, Los Angeles Optometric Society Award 1999
 Recipient, AAO Cornea and Contact Lens Travel Fellowship Award, December 1999
 Recipient, Minnesota VOSH Travel Fellowship Award, February 2000
 Recipient, Best Paper of Session Award, International Society of Refractive Surgeons, July 2000
 Optometric Corneal Crosslinking Society, 2011-12

- *Vice-president 2012*

Nominee, Dry Eye Workshop II subcommittee member, July 2014
 Panel member, National Dry Eye Summit, December 12-13, 2014
 INTREPID Optometric Society, 2015-present

- *Founding Member*

Recipient, Primary Care Optometry News *250 Innovators in Optometry*, October 2016
 Mentor, NSF-grant Innovation Corps Team #975: TearRestore, January 2017
 Vice-Chair, Anterior Segment Section of the American Academy of Optometry, 2018-2020

AAO Travel Grant Selection Committee, 2019, 2020

Secretary, Anterior Segment Section of the American Academy of Optometry, 2020-present

PROFESSIONAL ORGANIZATIONS

Volunteer Optometric Services for Humanity

- *El Salvador Humanitarian Mission, 2000 (Minnesota chapter)*

Minneapolis Metropolitan Optometric Society, 2000-2017

- *Vice president, 2001*

Minnesota Optometric Association, 2000-2002; 2015-present

- *Member 2000-2002; 2015-2017*
- *Education Director, 2001 Fall Meeting, Nissawa, MN*

American Academy of Optometry, 2007-present

- *Fellow 2007 - present*
- *Diplomate Candidate, 2019*
- *Vice-Chair, Anterior Segment Section, 2018-2020*
 - o *Committee Chair, Resident Travel Grant Award, 2019*
- *Secretary, Anterior Segment Section, 2020-present*

National Board of Examiners in Optometry, 2008-2009

- *Examiner*

Optometric Council on Refractive Technology, 2008-2017

- *Member*

Association for Research in Vision and Ophthalmology, 2009-present

- *Member*

Tear Film and Ocular Surface Society, 2013-present

- *Member*

Colorado Optometric Association, 2017 - present

- *Member*

LICENSE AND BOARD CERTIFICATIONS

Licenses:

Jan 2017 - present State of Colorado; Active, expiration March 2023

July 1999 - Dec 2017 State of Minnesota; Inactive

Board Certifications:

National Board of Examiners in Optometry, Part I: August 1997

National Board of Examiners in Optometry, Part II: December 1998

National Board of Examiners in Optometry, Part III: May 1999

Treatment and Management of Ocular Disease: December 1998

Minnesota Jurisprudence Examination: May 1999

Other Certifications:

American Heart Association Basic Life Support, Expires Aug 2022

INTELLECTUAL PROPERTY

Patent Applications:

TearRestore, patent pending - PCT/US2017/021164

- Assisted with design, volumetric, temperature standards

Terrapin Ocular, patent pending

- Assisted with design

REVIEW AND REFEREE WORK

Editorial Positions:

- Editorial Board, Primary Care Optometry News (Oct 2009-June 2020)
- Reviewer; Ad hoc contributor
- Editorial Board, Advanced Ocular Care (Oct 2015-Dec 2017)
- Reviewer; Ad hoc contributor
- Editorial Board, Optometry Times (Jan 2017-present)
- Ad hoc contributor
- Editorial Board, CollaborativeEYE (Dec 2017-present)
- Reviewer; Ad hoc contributor
- Editorial Board, Journal of Dry Eye Disease (Jan 2018-present) - **peer reviewed publication**
- Reviewer
- Editorial Board, Modern Optometry (Nov 2018-present)
- Reviewer; Ad hoc contributor
- Optometry and Vision Science (February 25, 2019 - present) - **peer-reviewed publication**
- Reviewer
- Ophthalmology (May 21, 2019 - present) - **peer reviewed publication**
- Ad hoc Reviewer
- British Journal of Ophthalmology (Oct 30, 2019 - present) - **peer-reviewed publication**
- Ad hoc Reviewer
- The Ocular Surface (May 25, 2020 - present) - **peer-reviewed publication**
- Ad hoc Reviewer

Reviewed Articles:

- “Optometry’s Role in the New Glaucoma Paradigm” - CollaborativeEYE, February 2018
- “Sizing up Antiinflammatories in Dry Eye” - Review of Optometry, February 2018
- “Sjogren’s Syndrome - Understanding the Disease” - Review of Optometry, March 2018
- “Medical Contact Lenses” - Review of Optometry, August 2018
- “Case Series: Triamcinolone Acetonide for Lower Eyelid Entropion Related to Thyroid-associated Ophthalmopathy” - Optometry and Vision Science (Ref: Ms. No. OVS19037), March 2019
- “Effectiveness and Safety of Intense Pulsed Light in Patients with Meibomian Gland Dysfunction - A randomized double-masked sham-controlled clinical trial” - Ophthalmology (Ref: OPHTHA_2019_972), June 2019
- “Case Report: Post-traumatic Iris Prolapse Assessment Using Swept Source Anterior Segment OCT (CASIA 2)” - Optometry and Vision Science (Ref: Ms. No. OVS19194), June 2019

“A Randomized, Sham-Controlled Trial of Intraductal Meibomian Gland Probing for Obstructive Meibomian Gland Dysfunction” - The Ocular Surface (Ref: THEOCULARSURFACE-D-20-00182)

“Easing into Next-Level Dry Eye Care” - Review of Optometry, April 2022.

INVITED LECTURES

Keynote presentations

1. Anterior Segment Section of the American Academy of Optometry Lecture Symposium: ‘*Highlights and Advancements in Drug Delivery Systems*’. Seattle, WA. Presenting faculty: Kenneth Eakland OD, Scott Hauswirth OD, Lyndon Jones OD, Jim Thimmons OD. November 21, 2013
2. Anterior Segment Section of the American Academy of Optometry Lecture Symposium: ‘*Neuropathic Pain in the Dry Eye Patient*’. Chicago, IL. Presenting faculty: Anat Galor MD, Scott Hauswirth OD; Leslie Smalls OD. October 13, 2017

International

1. Newfoundland/Labrador Provincial Annual General Meeting, St. John’s, NL
October 3, 2015
“Anterior Segment Dilemmas” Lecture
2. Newfoundland/Labrador Provincial Annual General Meeting, St. John’s, NL
October 3, 2015
“Infectious Keratitis” Lecture
3. 13th Annual International Symposium on Ocular Pharmacology and Therapeutics (ISOPT). Rome, Italy. December 4, 2016. *“Burning Mouth, Burning Eyes: A Case Report” Lecture*
4. Newfoundland/Labrador Provincial Annual General Meeting, St. John’s, NL.
September 21, 2019
“Infectious Keratitis: Don’t let it Bug You!” Lecture
5. Newfoundland/Labrador Provincial Annual General Meeting, St. John’s NL.
September 21, 2019
“Pain, Photophobia” Lecture
6. Newfoundland/Labrador Provincial Annual General Meeting, St. John’s NL.
September 21, 2019.
*“Ocular Urgencies & Emergencies” Hauswirth SG, Mangan RB.
*Lecture.**
7. World Congress of Optometry. Orlando, FL. October 27, 2019.
*“Building an Oasis in the Desert: A Case-Based Approach to Sjogren’s Syndrome”
Hauswirth SG, O’Dell L, Hauser W, Barnett M. Lecture, moderator.*

National Conferences

1. American Academy of Optometry Meeting, Anaheim, CA. October 24, 2008
"Conjunctival Langerhans Cell Histiocytoma and the Use of Topical Tacrolimus". Hauswirth SG, Reeves SW. Grand Rounds Presentation
2. American Academy of Optometry Meeting, Orlando, FL. November 12, 2009
"Ophthalmic Pipeline: A Look Ahead". Hauswirth SG, Fahmy AM. Lecture
3. MedTech 9th Annual Investor's Conference, Minneapolis, MN May 17, 2010
*"Ophthalmic Medical Device Innovation: A Perspective from Optometry",
Lecturer &
Panel Discussion*
4. National Optometric Council on Refractive Technology Symposium; San Francisco, CA. November 16, 2010
*"Corneal Crosslinking with Riboflavin and UV-A: An Update". Hauswirth SG.
Lecture & Panel Discussion*
5. National Optometric Council on Refractive Technology Symposium; Boston, MA. October 11, 2011
"Corneal Collagen Crosslinking: A Current Look at Outcomes". Hauswirth SG. Lecturer & Panel Discussion
6. National Optometric Council of Refractive Technology Symposium; Phoenix, AZ. November 23, 2012. *"Corneal Crosslinking in 2012: What Happened in the Literature" Lecture & Panel Discussion*
7. American Society of Cataract and Refractive Surgeons IOMED Symposium. Boston, MA. April 26, 2014. *"Management of the Advanced Technology Patient" Moderator, Lecturer, and Panel Discussion*
8. American Academy of Optometry Meeting, Anaheim, CA. November 11, 2016
"Rapid Fire Session; The Changing Face of Dry Eye: Emerging Trends and Innovations in Diagnosis and Treatment" Hauswirth SG, O'Dell L, Mangan, R, Karpecki P. Lecture
9. American Academy of Optometry Meeting, Anaheim, CA. November 11, 2016
*"Uncovering Demodex: The Latest in Diagnosis and Treatment".
Schachter S, O'Dell L,
Hauswirth SG. Workshop*
10. INTREPID Eye Society CE Event, Miami Beach, FL. October 27, 2016
"Bugs & Drugs" Hauswirth SG, Lighthizer N. Lecture
11. 2nd Annual Optometric Council on Cornea and Refractive Surgery (OCCRS) Symposium, San Diego, CA April 22-24, 2017. *"Co-management of Refractive Surgery". Hauswirth SG, Karpecki P, Goodman G. Moderator, Lecturer, and Panel Discussion*
12. American Optometric Association Annual Meeting. Washington, DC. June 21-24, 2017
"Understanding the Role of Inflammation in Dry Eye", Hauswirth SG, O'Dell L. Lecture

13. American Optometric Association Annual Meeting. Washington, DC. June 21-24, 2017
"Pardon the Objection: Anterior Segment", Bloomenstein M, Hauser W, Hauswirth S, Dunbar M. Lecture & Panel Discussion
14. American Academy of Optometry Meeting, Chicago, IL. October 11-13, 2017
"Pain and Photophobia in Ocular Surface Disease" Hauswirth SG. Lecture
15. American Academy of Optometry Meeting, Chicago, IL. October 11-13, 2017
"Laser K's: Keratectomy to Keratomileusis with a SMILE" Ibach M, Hauswirth SG. Lecture
16. American Academy of Optometry Meeting, Chicago, IL. October 11-13, 2017
"Blepharitis Workshop". O'Dell L, Schachter S, Hauswirth SG. Workshop
17. American Academy of Optometry Meeting, Chicago, IL. October 11-13, 2017
"Hot Topics: Novel Treatments" Session Moderator
18. East-West Conference, Cleveland, OH. November 2-4, 2017
"Updates in Corneal Collagen Crosslinking"; Lecture
19. East-West Conference, Cleveland, OH. November 2-4, 2017
"Advances in Refractive Surgery 2017"; Lecture
20. East-West Conference, Cleveland, OH. November 2-4, 2017
"The Dark Side of the Anterior Segment"; Lecture
21. East-West Conference, Cleveland, OH. November 2-4, 2017
"From PK to DMEK: Managing the Keratoplasty Patient"; Lecture
22. American Optometric Association Annual Meeting. Denver, CO. June 20, 2018.
"Pain and Photophobia in Ocular Surface Disease"; Lecture
23. American Optometric Association Annual Meeting. Denver, CO. June 20, 2018.
"Anterior Segment Dilemmas"; Lecture
24. Vision Expo West Conference. Las Vegas, NV. September 27, 2018
"Anterior Segment Dilemmas"; Lecture
25. Vision Expo West Conference. Las Vegas, NV. September 28, 2018.
"Updates in Corneal Collagen Crosslinking"; Lecture
26. American Academy of Optometry Meeting, San Antonio, TX. November 10, 2018.
"Reviving the Limbus: The importance of the Limbal Stem Cell Niche"; Hauswirth SG, Ibach M. Lecture
27. Vision Expo East Conference. New York, NY. March 21, 2019.
"Pain, Photophobia, and Ocular Pathology: What you can do to help your patients." Lecture.
28. Vision Expo East Conference. New York, NY. March 22, 2019.
"Updates in Corneal Collagen Crosslinking". Lecture.
29. American Optometric Association Annual Meeting. St. Louis, MO. June 19, 2019.
"Ocular Urgencies and Emergencies: Are you prepared?" Mangan RB, Hauswirth SG. Lecture.

30. American Society of Cataract and Refractive Surgeons Combined Ophthalmic Symposium. Austin, TX. August 24, 2019. *"Comanaging the Typical and Not-So-Typical Cataract, Cornea, and Glaucoma Procedures"* Hauswirth SG, Claypool C, Fahmy AM, Schwartz T. Panel, Lecture
31. American Society of Cataract and Refractive Surgeons Combined Ophthalmic Symposium. Austin, TX. August 24, 2019. *"Pain, Photophobia, and Ocular Pathology: What you can do to Help Your Patients"* Lecture
32. American Society of Cataract and Refractive Surgeons Combined Ophthalmic Symposium. Austin, TX. August 25, 2019. *"Identify, Treat, and Manage Complex Ocular Surface Conditions"* Hauswirth SG, Fahmy AM, Schwartz T, Lecture/Panel.
33. Vision Expo West Conference. Las Vegas, NV. September 18, 2019. *"Pain, Photophobia, and Ocular Pathology: What you can do to help your patients"* Lecture
34. Vision Expo West Conference. Las Vegas, NV. September 18, 2019. *"Updates in Corneal Collagen Crosslinking"* Lecture
35. American Academy of Optometry Meeting. Orlando, FL. October 25, 2019. *"The Comorbidities of Dry Eye Disease and Glaucoma"* Hauswirth SG, Mangan RB, Ibach ML, Schweitzer J. Lecture
36. Everything Dry Eye Teleconference (virtual), August 15, 2020. *"It's Not Rare if it's in Your Chair: The Albino Zebras of OSD"* Asghari B, Hauswirth SG. Lecture/Panel.
37. American Academy of Optometry Meeting (virtual), Nashville, TN. October 22, 2020. *"Happy Conj, Happy Cornea"* Asghari B, Hauswirth SG. Lecture.
38. American Academy of Optometry Meeting (virtual), Nashville, TN. October 19, 2020. *"A Comprehensive Approach to Treating Sjogren's Syndrome"* O'Dell L, Hauswirth SG, Hauser W, Barnett M. Lecture.
39. Eyes on Dry Eye. Virtual meeting, April 24, 2021. *"What's the deal, I can't feel! The nitty-gritty on NK"* Hauswirth SG, Fahmy A. Lecture.
40. Vision Expo East, Orlando, FL. June 3, 2021. *"Pain, Photophobia, and Ocular Pathology: What you should know to help your patients"* Hauswirth SG. Lecture.
41. Vision Expo East, Orlando, FL. June 3, 2021. *"Updates in Corneal Collagen Crosslinking"* Hauswirth SG. Lecture.
42. Vision Expo East, Orlando, FL. June 3, 2021. *"Anterior Segment Dilemmas"* Hauswirth SG. Lecture.
43. Vision Expo East, Orlando, FL. June 4, 2021. *"MIGS in glaucoma"* Schweitzer J, Whitley W, Hauswirth SG. Lecture/Panel.
44. Vision Expo West, Las Vegas, NV. Sept 2021

"Pain, Photophobia, and Ocular Pathology: What you should know to help your patients"

Hauswirth SG. Lecture.

45. Vision Expo West, Las Vegas, NV September 2021.

"Updates in Corneal Collagen Crosslinking" Hauswirth SG. Lecture.

46. Vision Expo West, Las Vegas, NV September 2021.

"Anterior Segment Dilemmas" Hauswirth SG. Lecture.

47. Vision Expo West, Las Vegas, NV September 2021.

"MIGS in glaucoma" Schweitzer J, Whitley W, Hauswirth SG. Lecture/Panel.

48. American Academy of Optometry Meeting, Boston, MA November 2021

"Two Birds, One Stone: Addressing both immunologic and neurologic factors in the cornea"

Hauswirth SG, Periman L. Lecture

State/Regional Conferences

1. Minnesota Optometric Association Fall Meeting, St. Cloud, MN September 22, 2007

"Anterior Segment Dilemmas" Hauswirth SG, Fahmy AM. Lecture.

2. South Dakota Optometric Association Meeting, Chamberlain, SD. April 18, 2008

"Managing the Keratoplasty Patient"

3. South Dakota Optometric Association Meeting, Chamberlain, SD. April 18, 2008

"Lumps, Bumps, and What the...?"

4. South Dakota Optometric Association Meeting, Chamberlain, SD. April 18, 2008

"Updates in Ocular Surface Disease"

5. South Dakota Optometric Association Meeting, Chamberlain, SD. April 18, 2008

"Anterior Segment Dilemmas"

6. North Dakota Optometric Association Annual Meeting, Fargo, ND October 2-3, 2011

"Anterior Segment Dilemmas"

7. North Dakota Optometric Association Annual Meeting, Fargo, ND October 2-3, 2011

"Updates in Corneal Collagen Crosslinking"

8. North Dakota Optometric Association Annual Meeting, Fargo, ND October 2-3, 2011 *"Lumps, Bumps, and What the...?"*

9. North Dakota Optometric Association Annual Meeting, Fargo, ND October 2-3, 2011 *"Premium IOLs: Offering More to your Patients"*

10. North Dakota Optometric Association Annual Meeting, Fargo, ND October 2-3, 2011 *"Updates in Ocular Surface Disease"*

11. North Dakota Optometric Association Annual Meeting, Fargo, ND October 2-3, 2011

"Current and Future Technologies for the OD Practice"

12. Virginia Optometric Association Fall Meeting, Wintergreen, VA. October 16, 2011

"Updates in Corneal Collagen Crosslinking"

13. Virginia Optometric Association Fall Meeting, Wintergreen, VA. October 16, 2011
"Current and Future Technologies for the OD Practice"
14. Maryland Optometric Association Fall Meeting, Annapolis, MD November 5, 2014
"Updates in Corneal Collagen Crosslinking 2014"
15. Maryland Optometric Association Fall Meeting, Annapolis, MD November 5, 2014
"Lumps, Bumps, and What the...?"
16. Minnesota Optometric Association Winter Meeting, St. Paul, MN February 6, 2015
"From PK to DMEK: Management of the Keratoplasty Patient"
17. Minnesota Optometric Association Winter Meeting, St. Paul, MN February 6, 2015
"Infectious Keratitis: Managing the Simple to the Complex"
18. Arizona Optometric Association Fall Meeting, Sedona, AZ November 13-14, 2015
"Infectious Keratitis: Managing the Simple to the Complex"
19. Arizona Optometric Association Fall Meeting, Sedona, AZ November 13-14, 2015
"Scenes from an Anterior Segment Practice"
20. Arizona Optometric Association Fall Meeting, Sedona, AZ November 13-14, 2015
"From PK to DMEK: Managing the Keratoplasty Patient"
21. Arizona Optometric Association Fall Meeting, Sedona, AZ November 13-14, 2015
"Lumps, Bumps, and What the...?"
22. Maine Optometric Association Meeting, Portland, ME December 5-6, 2015
"Updates in Corneal Collagen Crosslinking"
23. Maine Optometric Association Meeting, Portland, ME December 5-6, 2015
"Lumps, Bumps, and What the...?"
24. Maine Optometric Association Meeting, Portland, ME December 5-6, 2015
"Infectious Keratitis: Managing the Simple to the Complex"
25. Maine Optometric Association Meeting, Portland, ME December 5-6, 2015
"Beyond Dry Eye: Improving the Success of Treating the Ocular Surface"
26. Maine Optometric Association Meeting, Portland, ME December 5-6, 2015
"Scenes from an Anterior Segment Practice"
27. South Dakota Optometric Association Meeting, Chamberlain, SD. April 2, 2016
"Utilizing Amniotic Tissue in the Optometric Setting"
28. South Dakota Optometric Association Meeting, Chamberlain, SD. April 2, 2016
"Scenes from an Anterior Segment Practice"
29. South Dakota Optometric Association Meeting, Chamberlain, SD. April 2, 2016
"Infectious Keratitis: Managing the Simple to the Complex"
30. South Dakota Optometric Association Meeting, Chamberlain, SD. April 2, 2016
"From PK to DMEK: Managing the Keratoplasty Patient"

31. South Dakota Optometric Association Meeting, Chamberlain, SD. April 2, 2016
"Updates in Corneal Collagen Crosslinking"
32. Twin Cities Ocular Surface Symposium, Minneapolis, MN. June 9, 2018.
"Taking a Second Look at the Lids"; Lecture, Panel Discussion
33. Twin Cities Ocular Surface Symposium, Minneapolis, MN. March 30, 2019.
"Pain, Photophobia, and Ocular Pathology: What you can do to help your patients" Lecture.
34. Twin Cities Ocular Surface Symposium, Minneapolis, MN. March 30, 2019.
"Amniotic membranes: How to safely insert and remove them" Workshop
35. Maine Optometric Association (virtual). November 5, 2020.
"What about the Conj? Redirecting the focus of OSD Management"
Asghari B, Hauswirth SG. Lecture
36. New Mexico Optometric Association. Albuquerque, NM. April 2, 2022.
"Anterior Segment Dilemmas" Lecture (2 hrs).
37. New Mexico Optometric Association. Albuquerque, NM. April 2, 2022.
"Pain, Photophobia, and Ocular Pathology: what you can do to help your patients". Lecture.
38. New Mexico Optometric Association. Albuquerque, NM. April 2, 2022.
"Don't wait - Regenerate! How to use regenerative tools in eyecare". Lecture.

Local Conferences/CE Events

1. Pennsylvania College of Optometry Cornea and Contact Lens Symposium. Philadelphia, PA. June 11, 2000 *"Enhancement Decisions for Refractive Surgery"*
2. Minnesota Eye Consultants Refractive Surgery CE Seminar. Minneapolis, MN. June 19, 2000 *"Top Five Complications Following LASIK Surgery"*
3. Bagan Strinden Vision CE Event; Fargo, ND. June 28, 2010.
"Premium IOLs: offering more to your patients"
4. Eye Clinic of North Dakota Annual Skeet Shoot and CE; Bismarck, ND. September 9, 2011
"Current and Future Technologies for the OD Practice"
5. Eye Clinic of North Dakota Annual Skeet Shoot and CE; Bismarck, ND. September 9, 2011
"Updates in Management of Dry Eye Disease"
6. Central Maryland Optometric Society; Bethesda, MD. April 19, 2012
"Current and Future Technologies for the OD Practice"
7. Central Maryland Optometric Society; Bethesda, MD. April 19, 2012
"Corneal Collagen Crosslinking"
8. Minnesota Eye Consultants OD Perspectives Meeting, Bloomington, MN. May 15, 2012
"Dry Eye Symposium" Hauswirth SG, Fahmy AM, Hardten DR.
9. Minnesota Eye Consultants OD Perspectives Meeting, Bloomington, MN. May 19, 2013
"Dry Eye Symposium" Hauswirth SG, Fahmy AM, Hardten DR.

10. Illinois College of Optometry Annual Fall CE Event, Chicago, IL. November 3, 2013
"Anterior Segment Dilemmas"
11. Minnesota Eye Consultants OD Perspectives Meeting, Bloomington, MN. May 19, 2014 *"The Aging Eye: Diagnostic tools for managing an aging population"* Hauswirth SG, Fahmy AM.
12. TLC Summer CE Symposium, Fargo, ND August 8, 2014
"Infectious Keratitis: Managing the Simple to the Complex"
13. TLC Summer CE Symposium, Fargo, ND August 8, 2014
"From PK to DMEK: Managing the Keratoplasty Patient"
14. TLC Summer CE Symposium, Fargo, ND August 8, 2014
"Scenes from an Anterior Segment Practice"
15. TLC Summer CE Symposium, Fargo, ND. August 8, 2014
"Updates in the Management of Dry Eye Disease"
16. Valley Eye Care Optometric Meeting, Appleton, WI October 1, 2014
"Clinical Dry Eye Management: Diagnostics and Treatment Methodologies"
17. Piedmont Optometric Society Meeting, Charlotte, NC. February 10, 2015
"The Ocular Surface Toolbox"
18. Minnesota Eye Consultants OD Perspectives Meeting, Bloomington, MN May 18, 2015
"Ocular Urgencies, Emergencies and Comanagement"
19. Minnesota Association of Optometrists and Opticians, Bloomington, MN October 28, 2016
"Beyond Dry Eye: Improving the Success of Treating the Ocular Surface"
20. Minnesota Association of Optometrists and Opticians, Bloomington, MN October 28, 2016
"Scenes from an Anterior Segment Practice"; Lecture
21. 21st Annual University of Colorado Department of Ophthalmology Symposium, Aurora, CO.
September 15, 2017
"Corneal Collagen Crosslinking"; Lecture
22. 21st Annual University of Colorado Department of Ophthalmology Symposium, Aurora, CO.
September 15, 2017
"Pain and Photophobia in Ocular Surface Disease"; Lecture
23. Sacramento Valley Optometric Society Tahoe Summit 2018, Incline Village, NV.
July 21, 2018.
"Pain and Photophobia in Ocular Surface Disease"; Lecture
24. Sacramento Valley Optometric Society Tahoe Summit 2018, Incline Village, NV.
July 21, 2018.
"Keeping Step with DEWS2: Clinical Applications"; Lecture
25. San Diego County Optometric Society Meeting. San Diego, CA. October 18, 2018.
"Why DEWS2 Makes my eyes HURT"; Lecture

26. University of Colorado Health Community CE. Boulder Eye Center, December 2018.
"Corneal Crosslinking" Hauswirth SG, Taravella M.
27. Indiana University Malinovsky Ocular Disease Symposium. Bloomington, IN. December 8, 2019.
"Anterior Segment Dilemmas"
28. Indiana University Malinovsky Ocular Disease Symposium. Bloomington IN. December 8, 2019.
"Infectious Keratitis: Don't let it Bug you!"
29. University of Colorado Department of Ophthalmology Grand Rounds, Aurora, CO. December 18, 2020.
"Utility of Confocal Microscopy in the Ophthalmic Setting"

On-line CE/COPE-Approved Lectures

1. **Management Strategies for Severe Ocular Surface Disease: From Amnion to Scleral Lenses.** Hauswirth SG, Asghari B, Lang J, Gelles J. Intrepid Eye Society, COPE #69295-AS, presented Wed July 22, 2020.
2. **What's the deal - I can't feel! The nitty gritty on NK.** Hauswirth SG, Fahmy AM. Eyes on Dry Eye. COPE #71992-AS. Presented Mar 30, 2021.
3. **Don't wait - REGENERATE! How to use regenerative tools in eyecare.** Woo University. COPE #74275-AS, presented Thurs Oct 7, 2022.

CE Presentations for Ophthalmic Technicians

- "More than Meets the Eye: Illusions of the Anterior Segment Patient"**, Topics in Ophthalmology. Minneapolis, MN. October 21, 2002
- "Neuroanatomy Review"**, Hauswirth, S. Topics in Ophthalmology. Minneapolis, MN. October 13, 2005
- "Careful Examination of the Red Eye"**, Hauswirth, S, Fahmy A. Topics in Ophthalmology. Minneapolis, MN. November 13, 2006
- "Careful Examination of the Red Eye (Part 2)"**, Hauswirth SG, Fahmy AM. Topics in Ophthalmology. Minneapolis, MN. November 14, 2007
- "Ocular Surface Disease: An introduction"** Hauswirth SG, Fahmy AM. Topics in Ophthalmology. Minneapolis, MN. November 13, 2008
- "Corneal Crosslinking"** Hauswirth SG. Presentation to RMLEI Staff; October 2018.
- "Cornea Imaging: What to look for"** Hauswirth SG. Presentation to RMLEI Imaging Team Aug 7, 2020
- "Anterior Segment Imaging: Tips for Cornea and Conjunctiva"** Hauswirth SG. Presentation to RMLEI Imaging Team Feb 11, 2022

TEACHING RECORD

Presentations:

“Advanced Ocular Surface: Masquerades and Management” University of Colorado
 Grand Rounds Presentation, February 2, 2017

“Pain and Photophobia in Dry Eye” - University of Colorado Annual Ophthalmology
 Symposium. Aurora, CO. September 15, 2017

“Updates in Corneal Collagen Crosslinking 2017” - University of Colorado Annual
 Ophthalmology Symposium. Aurora, CO. September 15, 2017

Foundations of Doctoring - Participant, October 2018

Foundations of Doctoring - Participant, October 3, 2019

“Utility of Confocal Microscopy in the Ophthalmic Setting” - University of Colorado
 Department of Ophthalmology Grand Rounds, Aurora, CO. December 18,
 2020

Key Administrative Positions:

Aug 2009 - June 2017 Director, Student Externship Program, Minnesota Eye
 Consultants

Mar 2011 - June 2017 Laboratory Director, Minnesota Eye Consultants

Aug 2017 - Director, Ocular Surface Center, Sue Anschutz-Rodgers Eye
 Center, University of Colorado

Accomplishments:

Initiated and maintained Optometric Externship Program at Minnesota Eye
 Consultants from November 2009 to May 2017

Assisted with training/mentoring of optometric residents at Minnesota Eye
 Consultants from 2007-2017

Assisted with training/mentoring of ophthalmology residents / PGY1 2020 - present

TRAINEES

Optometric Residents:

July 2006 - June 2007 Benjamin Fogal, OD; Minnesota Eye Consultants,
 Bloomington, MN

July 2007 - June 2008 Mona Fahmy, OD; Minnesota Eye Consultants,
 Bloomington, MN

July 2008 - June 2009 Sandy Pham-Vang, OD; Maple Grove, MN

July 2009 - June 2010 Jake Kozisek, OD; Green Bay, WI

July 2010 - June 2011 Jaclyn Morin, OD; Mayo Clinic, Eau Claire, WI

July 2012 - June 2013 Kate Montelaegre, OD; HealthPartners, St. Paul, MN

July 2013 - June 2014 Mitch Ibach, OD; Vance Thompson Eye Center, Sioux
 Falls, SD

July 2014 - June 2015 Mark Buboltz, OD; Minnesota Eye Consultants,
 Bloomington, MN

July 2016 - June 2017 Alicia Alvarado, OD; First Eye Care, Fridley, MN

Optometric Externs:

Nov 2009 - Feb 2010 Brooke Messer, OD; Cornea and Contact Lens
Consultants, Edina, MN

May 2010 - Aug 2010 Leslie Meyer, OD; Indian Health Service, Shiprock, NM

May 2011 - Aug 2011 Tyler Sommerfield; Kaiser Permanente, Denver, CO

Aug 2011 - Nov 2011 Marina Su, OD; Fromer Eye Centers, New York, NY

Nov 2011 - Feb 2012 Chad Stockert, OD; Placentia, CA

Feb 2012 - May 2012 Lindsey Plett, OD; Plett Family Optometry, Turlock, CA

Aug 2012 - Nov 2012 Heidi Tao, OD; EYEXAM of CA, Brea, CA

Nov 2012 - Feb 2013 Lyndsay Stewart, OD; Clackamas Eye Care,
Clackamas, OR

Feb 2013 - May 2013 Alyssa Shandrick, OD; Kaiser Permanente, Woodland
Hills, CA

May 2013 - Aug 2013 Heidi Miller, OD; University of California Davis, Davis,
CA

Aug 2013 - Nov 2013 Lauren Hazelton, OD; Sanford Health Center, Bemidji,
MN

Nov 2013 - Feb 2014 Jacqueline Vu, OD; Orange Coast Eye Center,
Fountain Valley, CA

Feb 2014 - May 2014 Maria Magana, OD; Houston, TX

Apr 2014 - May 2014 Dominique Oker; Eden Prairie Eye Care, Eden Prairie,
MN

May 2014 - Aug 2014 Emelia Petrossian, OD; Antelope Mall Vision Center,
Palmdale, CA

Oct 2014 - Dec 2014 Audrey Dawson, OD

Jan 2015 - May 2015 Meghan Earley, OD; Woodbury Eye Care Clinic

Mar 2015 - May 2015 Hilary Hopkins, OD; Lake Chelan, WA

May 2015 - Aug 2015 Krista Roden, OD; Blackstone Optometry, Los Angeles,
CA

Aug 2015 - Nov 2015 Jessica Jackson, OD; Okinawa, Japan

Feb 2016 - May 2016 Lynn Huffman, OD; Beulah, ND

May 2016 - Sept 2016 Jake Stallbaumer, OD; Memphis Veterans Administration
Hospital, Memphis, TN

Sept 2016 - Dec 2016 Whitney Carow, OD; Essentia Health; Duluth, MN

Jan 2017 - May 2017 Shalon Rothstein, OD; Northway Eye and Contact Lens
Center, St. Cloud, MN

Ophthalmology residents:

Aug - Sept 2019 Jack Lemon, MD

Jun - Jul 2020 Stephen Phillips, MD

Aug - Sept 2020 Julia Xia, MD

Oct - Nov 2020 Itzam Marin, MD

Mar - Apr 2021 Amy Huang, MD

Apr - May 2021 Hannah Chen, MD

RESEARCH:

GRANT SUPPORTED RESEARCH

Sponsoring Agency: National Eye Institute, National Institute of Health.

Time Period: Sept 30, 2021 - June 30, 2022

Grant Number: UG1 EY020522-13S1

Title: Facemask Use and Dry Eye

Role/Resp: Co-Investigator

Total Costs: \$249,361

Effort Allocation: 7%

Objective: To measure the ocular surface, ocular environment, and dry eye-related symptoms among a sample of healthcare workers across the job spectrum exposed to regular and prolonged mask use; elucidate the potential role of masks in exacerbating dry eye-related symptoms and understanding coping behaviors among hospital workers; and assess the prevalence of barriers and facilitators of the use of environmental and behavioral modifications to reduce dry eye-related symptoms.

Sponsoring Agency: National Science Foundation

Time Period: Jan 2017 - Apr 2018

Grant Number: Innovation Corps Team #975

Title: TearRestore

Role/Resp: Mentor

Total Costs: \$25,000

Effort Allocation: 25%

Objective: Development of an open-eye warm compress mask to improve compliance with warm compress therapy for treatment of dry eye. Assisted in design development, research design protocols and implementation, and provided guidance to acquisition of KOL advisory committee and consumer survey

COLLABORATIVE RESEARCH INITIATIVES

Site Principal Investigator. Neurosensory Abnormalities in SymptomAtic Ocular Surface Patients

(NASA) Study. NCT #04838223.

CLINICAL RESEARCH PARTICIPATION

Sponsored Studies:

Principal Investigator. Tear Solutions, Inc. LOS Protocol 001. A Double-Masked, Randomized, Multi-Center Phase 2 Study to Evaluate the Efficacy and

Safety of Lacripep in Subjects with Dry Eye Associated with Primary Sjogren's Syndrome. NCT #03226444.

Principal Investigator. TearRestore, Inc. The Effect of Warm Compress Therapy Using the TearRestore Eyelid Warming Mask on Meibomian Gland Function. NCT #04309799.

Principal Investigator. Sylentis, Inc. Tivanisiran for Dry Eye in Subjects with Sjogren's Syndrome. Protocol SYL1001_V. IND #130383.

Principal Investigator. Claris Biotherapeutics, Inc. Protocol CSB-C20-003. A Multi-Center, Randomized, Double-Masked, Vehicle-Controlled, Parallel-Group, Study to Evaluate the Safety and Efficacy of CSB-001 Ophthalmic Solution 0.1% in Stage 2 and 3 Neurotrophic Keratitis Subjects. NCT #04909450.

Principal Investigator. Oyster Point Pharmaceuticals. Protocol OPP-102. A Phase 2, Multicenter, Randomized, Controlled, Double-Masked, Clinical Trial to Evaluate the Efficacy and Safety of OC-01 (varenicline) Nasal Spray in Subjects with Neurotrophic Keratopathy (the Olympia Study). NCT #04957758.

Sub-Investigator. Abbot Medical Optics STAR-110-IDMY: A Prospective Study to Evaluate the Safety and Effectiveness of Wavefront-Guided LASIK Correction of Myopic Refractive Errors with the iDesign Advanced Wavescan Studio System and STAR S4 IR Excimer Laser System. NCT #01663363

Sub-Investigator. Abbott Medical Optics DIOL-101-TCNS: Clinical Evaluation of the Tecnis Multifocal Intraocular Lens, Model ZM900. NCT #00747565

Sub-Investigator. Abbott Medical Optics DIOL-104-TCNS: Clinical Evaluation of the Tecnis Multifocal Intraocular Lens, Model ZM900, Study Expansion

Sub-Investigator. Acufocus ACU-P-003: A Prospective Multi-Center Clinical Trial to Evaluate the Safety and Effectiveness of the Acufocus ACL 7000 in Presbyopic Subjects.

Sub-Investigator. AlphaCor. Clinical Evaluation of the AlphaCor Artificial Cornea.

Sub-Investigator. Allergan 192024-091: The Efficacy and Safety of Bimatoprost Sustained-Release (SR) in Patients with Open-angle Glaucoma or Ocular Hypertension. NCT #02247804.

Sub-Investigator. Allergan MA-ZYN-08-001: A Multicenter, Investigator-Masked, Randomized, Parallel Group Comparison Study to Assess if the Presence of BAK in Topical Fluoroquinolone Reduces the Likelihood of Susceptibility for Induction of Resistant Organisms in Healthy Adult Subjects.

Sub-Investigator. Allergan AG9818-001-00: A Multi-Center, Double-Masked, Randomized, Two-Arm, Parallel-Group Study to Compare the Efficacy, Safety and Acceptability of Optive Unit-Dose Eye Drops with Refresh

Plus Unit-Dose Lubricant Eye Drops for 3 Months in Subjects Following LASIK Refractive Surgery.

- Sub-Investigator:* Allergan MA-RES-08-001: A Multi-Center, Prospective, Observational Study of the Progression of Ocular Findings in Dry Eye Disease (PROOF Study). NCT #00833235
- Sub-Investigator:* Allergan 190342-019T: A Multi-Center, Double-Masked, Randomized, Parallel, Four-week Study of the Safety and Efficacy of 0.2% Brimonidine/0.5% Timolol Combination Ophthalmic Solution BID Compared with Concurrent Alphagan TID and Timolol BID (0.2% Brimonidine and 0.5% Timolol) Ophthalmic Solutions and Alphagan (0.2% Brimonidine) Ophthalmic Solution TID in Treatment-Naïve Patients with Glaucoma or Ocular Hypertension. NCT #00652106
- Sub-Investigator:* Allergan 191578-005-02: A Multi Center, Double Masked, Randomized Parallel Group Study Evaluating the Safety and Efficacy of a New Formulation of Ketorolac 0.45% Ophthalmic Solution Compared with Vehicle Administered Preoperatively and Twice-Daily Postoperatively for Two Weeks for the Treatment of Anterior Segment Inflammation, Pain, and Inhibition of Surgically Induced Miosis Following Cataract Extraction with Posterior Chamber Intraocular Lens (IOL) Implantation
- Sub-Investigator:* AqueSys, Inc. P11-001: A Prospective Multi-Center Clinical Trial Designed to Evaluate the Safety and Performance of the Aquesys Microfistula Implant in Subjects with Refractory Glaucoma. NCT #01640756.
- Sub-Investigator:* Aton Pharma. 07-004-12: A Multi-Center Investigation of Patient Acceptability of Lacrisert.
- Sub-Investigator:* Bascom Palmer Eye Institute NEI. Ahmed versus Baerveldt Comparison (ABC) Study. NCT #00376363.
- Sub-Investigator:* Bausch & Lomb Inc. "S00007: A Dose-Ranging Study to Evaluate the Safety and Efficacy of Bromfenac Ophthalmic Solution vs. Placebo in Alleviating the Signs and Symptoms of Dry Eye Disease." NCT #01212471.
- Sub-Investigator:* Bausch & Lomb Inc. EXKM-607-HYP: A Prospective Multicenter Clinical Trial to Evaluate the Safety and Effectiveness of the Technolas 217A Excimer Laser When Used for Intrastromal Ablation (LASIK, or Laser In-Situ Keratomileusis) for the Correction of Naturally Occurring Hyperopia Between 1.0-4.0D of Spherical Refraction with Up to 2.0D of Refractive Astigmatism.
- Sub-Investigator:* Bausch & Lomb, Inc. USSMS-AO-01: Prospective, Randomized, Bilateral Eye Study of the Bausch & Lomb SofPort Advanced Optics (AO) Aspheric IOL (Model LI61AO) versus the Bausch & Lomb SofPort Square Edge (SE) IOL (Model LI61SE).
- Sub-Investigator:* Bausch & Lomb, Inc. 105.654.813: A Randomized, Multi-Center, Parallel-Group, Safety and Efficacy Study of Lotemax Gel

0.5% and Restasis 0.05% for 12 weeks in Subjects with Mild or Moderate Keratoconjunctivitis Sicca.

Sub-Investigator: Calhoun Vision. CSP-002-03: A Prospective Randomized Controlled Multi-Center Clinical Study to Evaluate the Safety and Effectiveness of the Light Adjustable Lens (LAL) in Subjects with Pre-Existing Corneal Astigmatism. NCT #01496066

Sub-Investigator: Case Vision Research Coordinating Center. NIH R01 (EY 016482-01): A Multi-Center Study to Map Novel Genes for Fuchs' Endothelial Corneal Dystrophy.

Sub-Investigator: Case Western Reserve University: NIH R01EY16482, R21 EY015145, P30 EY11373: A Multi-Center Study to Map Novel Genes for Fuch's Endothelial Corneal Dystrophy.

Sub-Investigator: Chakshu Research. CK-0109: A Phase 2, Randomized, Placebo-Controlled, Double-Masked, Multicenter Safety and Efficacy Study of C-KAD Ophthalmic Solution in Patients with Loss of Visual Acuity Due to Age-Related Cataract. NCT #00793091.

Sub-Investigator: Glaukos GC-008: A Prospective Randomized Single-Masked Controlled Parallel Groups Multicenter Clinical Investigation of the Glaukos Trabecular Micro-Bypass Stent Model GTS400 Using the G2-M-IS Injector System in Conjunction with Cataract Surgery.

Sub-Investigator: GC-003: A Study of the iStent Trabecular Bypass Micro Stent in Combination with Cataract Surgery in Subjects with Open-Angle Glaucoma.

Sub-Investigator: Glaukos. GTS100-PAR: Glaukos iStent Trabecular Micro-Bypass Stent System in Conjunction with Cataract Surgery Postmarket Registry. NCT #01841437

Sub-Investigator: HumanOptics: AI-001: "Safety and effectiveness of the CustomFlex Artificial Iris Prosthesis for the Treatment of Iris Defects." NCT #01860612

Sub-Investigator: Inspire 03-113: A Multi-Center, Parallel-Group, Double-Masked, Randomized, Placebo-Controlled Study of the Effects of Diquafosol Tetrasodium Ophthalmic Solution 2% in Subjects with Dry Eye Disease and a Central Corneal Staining Score of 3 (NEI scale). NCT #00831662.

Sub-Investigator: Inspire 044-101: A Randomized, Multi-Center, Double-Masked, Placebo-Controlled, Parallel-Group Safety and Efficacy Study of Azithromycin Ophthalmic Solution 1% versus Placebo for Two Weeks in Subjects with Blepharitis.

Sub-Investigator: iScience OMS-2005: Dilatation of Schlemm's Canal During Glaucoma Surgery

Sub-Investigator: ISTA: A Multi-Center, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study Evaluating the Safety and Analgesic Efficacy of Three Concentrations of Bromfenac Ophthalmic Solution (0.09%, 0.06%, and 0.03%) in Post-Operative, Unilateral, Photorefractive Keratectomy (PRK) Surgery.

- Sub-Investigator:* ISTA. MAC-01-11: Effect of Bepreve on the Measurement of Tear Film Osmolarity in Patients with Allergic Conjunctivitis.
- Sub-Investigator:* Jaeb Center for Health Research; NEI #1U10EY020798-01A1. Effect of Corneal Preservation Time on Long-Term Graft Success (CPTS). NCT #01537393.
- Sub-Investigator:* Lux BioSciences LX201-01: A Multi-Center, Placebo-Controlled, Randomized, Parallel-Group, Dose Ranging Study to Assess the Efficacy and Safety of LX201 for Prevention of Corneal Allograft Rejection Episodes or Graft Failure Following Penetrating Keratoplasty with LX201 Implantation in Subjects Who are at Increased Immunological Risk. NCT #00447187.
- Sub-Investigator:* Lux Biosciences LX201-02: A Multi Center, Placebo-Controlled, Randomized, Parallel-Group, Dose-Ranging Study to Assess the Efficacy and Safety of LX201 for the Prevention of Corneal Allograft Rejection Episodes or Graft Failure in Subjects Who Have Experienced One or More Rejection Episodes Following Penetrating Keratoplasty. NCT #00447642.
- Sub-Investigator:* Marco Ophthalmics. "Determination of Night Time Glare Assessment Validity Using the Marco Nitebat"
- Sub-Investigator:* Ocular Therapeutix. ITX-08-002: Multi-Center, Parallel Arm Study to Evaluate the Safety and Performance of I-ZIP Ocular Bandage Compared to OASIS 24-hr Soft Collagen Corneal Shield for Relief of Pain/Discomfort in Subjects Undergoing Clear Corneal Cataract Surgery. NCT #00774228.
- Sub-Investigator:* Omeros Corp OMS302-ILR-003: A Phase 3 Randomized, Double-Masked, Placebo-Controlled Study of the Effect of OMS302 on Intraoperative Pupil Diameter and Early Postoperative Pain in Subjects Undergoing Intraocular Lens Replacement with Phacoemulsification. NCT #01454063.
- Sub-Investigator:* Ophtec CTR-275/276: US Clinical Study of the OCULAID Endocapsular Tension Ring (CTR) and OPERAID Tension Ring Inserter
- Sub-Investigator:* Ophtec. Clinical Investigation of the Artisan Myopia Lens (Formerly Worst Myopia Claw Lens).
- Sub-Investigator:* Ophtec. US Clinical Investigation of the Artisan Hyperopia Lens for the Correction of High Hyperopia.
- Sub-Investigator:* Ophtec. Multicenter Clinical Study of the Ophtec Model 311 Iris Reconstruction Lens (Ophtec Artificial Iris Study).
- Sub-Investigator:* Ophtec. Continued Access Compassionate Use Study: OPHTEC Model 311 Artificial Iris Lens for the Treatment of Visual Disturbances Resulting for Partial or Total Loss of the Human Iris.
- Sub-Investigator:* Otsuka Pharmaceuticals, Novartis: 37E-03-201: Rebapimide Ophthalmic Suspension in the Treatment of Dry Eye: A

Multi-Center, Phase 3, Randomized, Double-Masked, Placebo-Controlled, Parallel-Group, 26-week Study. NCT #00201955.

Sub-Investigator: Peschke-Meditrade Gmbh UVX-002: Safety and Effectiveness of the UV-X System for Corneal Collagen Cross-linking in Eyes with Progressive Keratoconus. NCT #00647699.

Sub-Investigator: Peschke-Meditrade Gmbh UVX-003: Safety and Efficacy of the UV-X System for Corneal Collagen Cross-Linking in Eyes with Corneal Ectasia after Refractive Surgery. NCT #00674661.

Sub-Investigator: Pharmacia: 912-OPT-0076-022: A 12-week, Randomized, Double-Masked, Three-Treatment Parallel-Group Comparison of the Fixed Combination of Latanoprost and Timolol vs Latanoprost vs Timolol in Glaucoma Patients with Optic Nerve Head Abnormalities and Visual Field Defects.

Sub-Investigator: QLT, Inc. PPL GLAU 02: A Phase II, Randomized, Masked, Parallel-Group Study of Safety and Preliminary Efficacy of the Punctum Plug Delivery System in Subjects with Primary Open Angle Glaucoma or Ocular Hypertension.

Sub-Investigator: SOLX SLX53: SOLX Clinical Protocol SLX53 - Randomized, Controlled, Multicenter Comparative Trial to Evaluate the SOLX Gold Shunt for the Reduction of Intraocular Pressure (IOP) in Glaucomatous Eyes Following Failed Medical and Conventional Surgical Treatments (IDE #G050140)

Sub-Investigator: STAAR Surgical. Clinical Investigation of the STAAR AquaFlow Collagen Glaucoma Drainage Device Randomized Treatment Protocol.

Sub-Investigator: STAAR Surgical. 980363: Clinical Study of the Implantable Contact Lens for Patients With Moderate to High Hyperopia.

Sub-Investigator: TearScience LF-001: Randomized Clinical Trial for Treatment of Meibomian Gland Dysfunction and Evaporative Dry Eye Using the Manual Mini System. NCT #00832130.

Sub-Investigator: TearScience. KS-101: Analysis of the Tear Film Lipid Layer - Prospective, Multi-Center Clinical Trial with Evaluation of Dry Eye symptoms, Dry Eye Signs, and Tear Film Lipid Layer Quality/Thickness Using the Tear Film Analyzer.

Sub-Investigator: The Center for Excellence in Eye Care. "Bromfenac BID Plus Prednisolone Acetate BID Versus Bromfenac BID Plus Prednisolone QID for the Prevention of Cystoid Macular Edema and Retinal Thickening". NCT #00469781.

Sub-Investigator: Topcon Medical Systems CXL-002: Safety Study of the VEGA UV-A System to Treat Ectasia. NCT #01398839.

Sub-Investigator: Topcon Medical Systems CXL-003: Safety and Effectiveness Study of the VEGA UV-A System for Cross-Linking in Eyes with Keratoconus and Corneal Ectasia. NCT #01398852.

Sub-Investigator: Topcon Medical Systems: Safety Study of the VEGA UV-A System to Treat Keratoconus. NCT #01190306.

Sub-Investigator: A Phase 3, Randomized, Adaptive Dose-Selection, Multi-Regional, Double-Masked, Parallel-Group, 3-Month Trial Evaluating the Safety and Efficacy of NCX 470 vs. Latanaprost 0.005% in Subjects with Open-Angle Glaucoma or Ocular Hypertension (Mont Blanc). NCT #04445519.

Sub-Investigator: ANGEL-2: A Phase IIb, Randomized, Double-Masked, Active-Controlled, Parallel-Group, Multicenter Study Assessing the Efficacy and Safety of DE-126 Ophthalmic Solution 0.002% Compared with Timolol Maleate Ophthalmic Solution 0.5% in Subjects with Primary Open Angle Glaucoma or Ocular Hypertension.

Unlabeled Studies

Sub-Investigator: “B5EKC: Off-label use of Betadine 5% for Epidemic Keratoconjunctivitis”.

Sub-Investigator: 19-002: “A prospective, randomized, parallel-group, multi-center, observer-masked trial comparing the efficacy and safety of 0.5% Levofloxacin with 1.0% Prednisolone acetate; 0.5% levofloxacin monotherapy, 1.0% prednisolone acetate monotherapy, and vehicle for the treatment of peripheral inflammatory keratitis”

Sub-Investigator: VISX: A Prospective clinical research study to determine the safety and effectiveness results of excimer laser photorefractive keratectomy (PRK) for treatment of low to moderate myopia with or without astigmatism.

Sub-Investigator: CS-002: Post Photorefractive Keratectomy (PRK) Use of an Eye Shield for maintaining Vision and Mitigating Pain.

Sub-Investigator: STAAR Surgical. A Randomized, Prospective Comparison of the Safety, Efficacy, and Quality of Vision Outcomes with STAAR Aspheric Collamer Intraocular Lens (Model CQ2015A) vs. an Approved Standard Spherical Intraocular Lens Alcon Acrysof (SA60AT) for the Treatment of Aphakia Clinical Study.

Sub-Investigator: A Prospective Evaluation of Differences in Patient Assessment of Nighttime Visual Aberrations Following Laser in-situ keratomileusis (LASIK) with an 8.0mm Transition Zone - “Large Optical Zone Main Study”

Sub-Investigator: Clinical Evaluation of Biomask as an Adjunct to Phototherapeutic Keratectomy (PTK).

Sub-Investigator: Medical Imaging of the Tissues of the Anterior Chamber Involved in Glaucoma - A Pilot Study.

Sub-Investigator: 01-06: A Randomized, Prospective Comparison of Higher Order Aberrations Following Implantation of Four Foldable Intraocular Lens Designs.

Sub-Investigator: 349: Bausch & Lomb Zyoptix XP Microkeratome Study #349

- Sub-Investigator:* 809749: DREAM Assessment of Dry Eye Symptom Severity Questionnaire Study.
- Sub-Investigator:* 494: A Prospective, Multi-Center Clinical Investigation to Evaluate the Clinical Performance of the Bausch & Lomb NGX Microsurgical System.
- Sub-Investigator:* A US Clinical Evaluation of Custom Match Intraocular Lenses (IOLs)
- Sub-Investigator:* AVS-5383: A Prospective Multi-Center Clinical Study to Evaluate the Safety and Effectiveness of the AVS Foldable Intraocular Lens in Patients Undergoing Cataract Extraction.
- Sub-Investigator:* 816490: Dry Eye Assessment and Management Study (DREAM)
- Sub-Investigator:* M-04-06-005: Effects of Clarity Lubricant Eye Drops Treatment in Patients Undergoing PRK Surgery.
- Sub-Investigator:* AM-01: A Clinical Evaluation of the Safety and Efficacy of the Asclepion-Meditec Phacolase Er:YAG Laser for the Purpose of Cataract Removal.
- Sub-Investigator:* Prospective Evaluation of Differences in Patient Assessment of Nighttime Visual Aberrations Following Custom Laser In-Situ Keratomileusis (LASIK) Using VISX CustomVue Software in a Defined and a Heterogeneous Participant Population. (MEC Wavefront)
- Sub-Investigator:* Bausch & Lomb Zyoptix Microkeratome Study #362
- Sub-Investigator:* BDG-302: A Phase III Study Assessing the Safety and Effectiveness of the GMP Bi-Directional Glaucoma Implant in Patients with Primary Open-Angle Glaucoma Who Have Failed Conventional Medical and Surgical Therapy.
- Sub-Investigator:* CMV11-A4: A Prospective Study to Determine Safety and Effectiveness of WaveScan-Guided LASIK for the Treatment of Presbyopic Patients Using Monovision with the VISX Star S4 Excimer Laser System

BIBLIOGRAPHY

Peer-Reviewed Publications:

1. **"Comparison of Laser Designs Utilized for Refractive Surgery"**, Hardten DR, Hauswirth SG. *Curr Opin Ophthalmol.* 2003 Aug; 14(4):213-9. PMID: 12888720.
2. **"A multicenter study to map genes for Fuchs endothelial corneal dystrophy: baseline characteristics and heritability"** Louttit MD, Kopplin LJ, Igo RP Jr, Fondran JR, et al. *Cornea.* 2012 Jan;31(1):26-35. PMID: 22045388. (collaborator)
3. **"Relationship of Fuchs endothelial corneal dystrophy severity to central corneal thickness"** Kopplin LJ, Przepyszny K, Schmotzer B, Rudo K, et al. *Arch Ophthalmol.* 2012 Apr;130(4):433-9. (collaborator)

4. **“Diagnosis and Management of Meibomian Gland Function: Optometrists’ Perspective”**
Opitz DL, Harthan JS, Fromstein SR, Hauswirth SG. Clin Optom. 2015, 7:59-69.
5. **“n-3 Fatty Acid Supplementation for the Treatment of Dry Eye Disease”**, Dry Eye Assessment and Management Study Research Group, Asbell PA, Maguire MG, Psitilli M, et al. N Engl J Med. 2018 May 3;378(18):1681-1690. PMID: 29652551. (collaborator)
6. **“A Review of the Differential Diagnosis of Acute Infectious Conjunctivitis: Implications for Treatment and Management”**, Yeu E, Hauswirth SG. Clin Ophthalmol. 2020; 14:805-813.
7. **“Prevalence and incidence of dry eye in the USA: a systematic review protocol”**. McCann P, Abraham AG, Gregory DG, Hauswirth SG, Ifantides C, Su-Hsun L, Saldana IJ, Li T. BMJ Open. 2021 Nov 23;11(11):e056203.
8. **“Dupilimab-associated cicatrizing ocular disease”** Reddy AK, Hauswirth SG, Gregory DG, Liao SD, Palestine AG. Am J Ophthalmol Case Rep. 2022 Apr 9;26:101528.

Textbook Chapters:

1. **“Disorders of the Cornea”**, Hauswirth SG, Hardten DR, Lindstrom RL. In Agarwal(ed) Handbook of Ophthalmology. Slack, inc. 2004. Chapter 8.
2. **“Excimer Lasers in Refractive Surgery”**, Hauswirth SG, Hardten DR. in Brightbill(ed) Corneal Surgery. 3rd edition, 2008. Chapter 89.
3. **“Indications for Penetrating Keratoplasty for Treatment of Irregular Astigmatism”**, Hauswirth SG, Davis EA, Hardten DR. in Wang (ed) Irregular Astigmatism, 2007. Slack, inc. Chapter 12.
4. **“Conductive Keratoplasty”** Hauswirth SG, Davis EA. in Agarwal(ed) Refractive Surgery, 2nd edition, 2009. Jaypee publishing. Chapter 52.

Non-Peer Reviewed Publications:

1. **“What’s your diagnosis: CIN and Interferon alpha-2b”**, Hauswirth SG. Primary Care Optometry News. 2006 Dec; 11(10).
2. **“What’s your diagnosis: Suprachoroidal hemorrhage”** Hauswirth SG. Primary Care Optometry News. 2008 Oct;13(10).
3. **“New Therapies for Common Diseases”** Krader CG, reviewed by Hauswirth SG, Fahmy AM. Optometry Times. 2010 October; 3(10):54-55.
4. **“Corneal collagen cross-linking shows promise for treating keratoconus, ectasia”** Hauswirth SG. Primary Care Optometry News. 2011 Jan
5. **“New Paradigms in Management of Dry Eye”** Hauswirth SG. Advanced Ocular Care. 2013 Sept.
6. **“Diagnosing Demodex”** Hauswirth SG. Optometry Times. 2013 Dec.
7. **“Role of Symptoms in Dry Eye”** Hauswirth SG. Primary Care Optometry News. 2014 Jul.
8. **“Caring for Patients Who Undergo Glaucoma Surgery”**. Key Issues in Glaucoma Management: A Review for Optometrists. 2016;4:5-7.

9. **“Combating Bacterial Keratitis”** Hauswirth SG, Mangan R. Review of Optometry. 2016 Aug;153(8):24-27.
10. **“Diagnosing and Treating Sjogren’s Syndrome”** Hauswirth SG. Optometry Times. 2016 Aug.
11. **“Beyond the Basics: Tackling Amniotic Membrane Therapy Complications”** Hauswirth SG. Review of Optometry. 2017 Jan;154(1):42-45.
12. **“Bugs and Drugs: Battling Bacterial Keratitis”** Hauswirth SG, Lighthizer N. Advanced Ocular Care. 2017 Apr;Suppl:12-14.
13. **“The Interaction of Dry Eye and Ocular Allergy”** Hauswirth SG. Advanced Ocular Care. 2017 Apr:39-42.
14. **“Today’s Crosslinking is Not your Father’s Oldsmobile”** Hauswirth, SG. Contact Lens Spectrum. 2017 Sep;32(9):28-34.
15. **“When Dry Eye Compromises Corneal Integrity”** Hauswirth SG. Review of Optometry, 2017 Nov. 154(11): 38-43.
16. **“An OD’s Guide to Corneal Transplant Options”** Ibach M, Hauswirth SG. Review of Optometry, 2018 Jan. 155(1):44-49.
17. **“Five Emergency Cases ODs Should Refer Immediately”** Hauswirth SG. CollaborativeEYE. Aug 2018.
18. **“Predicting Change: The Academic Perspective”** Kwan J, Hauswirth SG. Modern Optometry. Mar 2019.
19. **“Best Practices for Managing Keratoconus Patients”** Hauswirth SG, Messer B. Optometry Times. July 9, 2019.
20. **“High Risk, Limited Options”** Hauswirth SG, Shovlin JP. Review of Optometry. August 15, 2019.
21. **“Tales of Corneal Clarity: Managing Significant Limbal Stem Cell Deficiency”** Asghari B, Hauswirth SG. Modern Optometry. March 2020. 25-28. (online at: <https://modernod.com/articles/2020-mar/tales-of-corneal-clarity?c4src=article:infinite-scroll>)
22. **“Dry Eye Intranasal Spray Stimulates Trigeminal Nerve”** Hauswirth SG. Optometry Times. June 2020 (in press).
23. **“Discuss DED Diagnostics: A guide on what to say to patients”** Hauswirth SG. Optometric Management. July 2020. 21-23.
24. **“Dry Eye disease onset at a younger age”** Hauswirth SG. Optometry Times. February 2022.

Original Research Presentations:

1. **“Lasik with the VISX Star S2 Smoothscan for Low and High Myopia: One Year Results”**, Uttley S, Hardten DR, Lindstrom RL, Chu YR, Hauswirth S. International Society of Refractive Surgeons Fall World Refractive Surgery Symposium October 22, 1999, Orlando, FL
2. **“Using Multivariable Nomograms to Improve Predicted Outcomes for LASIK”**, Hauswirth S, Hardten DR, Uttley S, Houtman, D, International Society of Refractive Surgeons Conference, July 22, 2000, Miami, FL * *Awarded Second Best Paper*

3. **"PTK for the Treatment of Large Epithelial Defects at the Time of LASIK"**, Davis E, Hauswirth S, Hardten DR. International Society of Refractive Surgeons Conference, Presentation July 23, 2000, Miami, FL * *Awarded Best Paper*
4. **"Contamination of Topical Anesthetic Drops as a Possible Factor in Diffuse Lamellar Keratitis"**, Hauswirth S, Hardten DR. International Society of Refractive Surgeons Conference. Presentation July 23, 2000, Miami, FL
5. **"Retained Lens Fragment Induced Uveitis in a Patient 17 Months Post-Phacoemulsification"**. Hauswirth SG, Gupta PK, Davis EA. Minnesota Optometric Association. Poster February 5, 2011. Minneapolis, MN.
6. **"Relationship of Total Ocular Symptom Score (TOSS) to Presence of Demodex Folliculorum"** Hauswirth SG, Hom M. American Academy of Optometry National Meeting. Poster October 23, 2013. Seattle, WA.
7. **"Prevalence of MGD, Blepharitis, and Demodex in an Optometric Practice"** Schachter SE, Schachter A, Hom MM, Hauswirth SG. ARVO Poster Presentation May 2014. Orlando, FL. IOVS 2014;55(13):49.
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15. **"The Importance of Grading both Upper and Lower Eyelids with Meibography"** Halleran C, Hauswirth SG, Schachter A, O'Dell L, Schachter S, Mastrota K, Kwan J, Hom M. American Academy of Optometry Scientific Section. Poster presentation Nov 11, 2016. Anaheim, CA.

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17. **“Taking the Recurrence out of Recurrent Corneal Erosions: A Case Series”** Hauswirth SG, Hom MM. IOVS 2017;58(8):2612.
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22. **“Outcomes and Timing of Surgical Intervention in Eyes with Microbial Keratitis Treated with Therapeutic Penetrating Keratoplasty”** Teeple T, Patnaik J, Hauswirth SG, Christopher K. ARVO Poster presentation May 2022. Denver, CO.
23. **“Bilateral Acanthamoeba Keratitis: A Case Report Exemplifying Minimizing Visual Morbidity”** Hauswirth SG. Optometry’s Meeting Poster Session - *Awarded Top 5 Poster*
24. **“Safety Outcomes and Discontinuation/Adherence Rates for OC-01 (varenicline solution) Nasal Spray in the ONSET-1, ONSET-2, and MYSTIC Trials”** Hauswirth SG, Kabat A, Hendrix L, Gibson A. Optometry’s Meeting 2022 Poster Session.

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