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Place of Birth: Boston, MA

Education

1998	BA (Cum Laude)	Biochemistry Spanish	Middlebury College
05/2003	MD	Medicine	University of Vermont College of Medicine

Postdoctoral Training

06/03-06/04	Intern	Internal Medicine	St. Luke's/Roosevelt Hospital Center, Columbia University
06/04-06/07	Resident	Ophthalmology	New York University/Manhattan Eye, Ear and Throat Hospital
07/07-06/08	Fellow	Cornea/Refractive Surgery	Massachusetts Eye and Ear Infirmary

Faculty Academic Appointments

7/07-6/08	Assistant Instructor	Ophthalmology	Harvard Medical School
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10/11-3/13	Instructor	Ophthalmology	Alpert Medical School of Brown University
3/13-3/2015	Assistant Clinical Professor	Ophthalmology	Alpert Medical School of Brown University
9/14- 5/16	Member of Faculty	Ophthalmology	Harvard Medical School
5/16-present	Assistant Professor	Ophthalmology	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

07/08-current	Clinical Associate	Ophthalmology Cornea/Refractive Surgery Service	Massachusetts Eye and Ear Infirmary
11/09-02/15	Clinical Associate	Ophthalmology	Newton Wellesley Hospital
8/14-current	Clinical Associate	Ophthalmology	Massachusetts General Hospital

Other Professional Positions

07/08-present	Surgisite Boston _ Waltham MA	
07/20- 2024	Surgisite North – Chelmsford MA	
2012-2016	Scientific Advisory Board, 6-8 hours per year	Allergan
2013-2015	Consultant, 10 hours/year	IOP Ophthalmic
2013	Speaker	Abbott Medical Optics
2015-2018	Scientific Advisory Board, 20 hours per year	Shire
2016	Clinical Advisory Board, 4 hours per year	Acufocus
2016	Clinical Advisory Board, 4 hours per year	Omeros
2016-2017	Clinical Advisory Board, 4 hours per year	Sun Ophthalmics

2016-current	Expert Medical Witness, 10-30 hours/year	
2017-current	Consultant and ShareHolder, 10-20 hours/year	Avedro/Glaukos
2018-2021	Consultant, 2 hours per year	EyeVance
2018-2021	Consultant, 2 hours per year	EyePoint
2017-current	Consultant, 2 hours per year	Zeiss
2019-current	Consultant, 4-10 hours per year	Johnson & Johnson
2020-2025	Consultant, 4-10 hours per year	CXLO
2020-2025	Consultant, 4 hours/year	Kala Pharmaceuticals
2020- current	Medical Advisor, Shareholder	ORCA surgical
2021-current	Consultant, 4 hours/year	Aldeyra
2021- current	Medical Advisory Board, Shareholder	MYZE
2021- current	Medical Advisory Board, Shareholder	LENZ
2022-2025	Consultant 2-4 hours/year	Oyster Point
2023- current	Consultant 2-4 hours/year	EpiOn
2025-current	Consultant 10-15 hours/year	Tarsus
2025	Consultant 2-3 hours/year	RxSight

Major Administrative Leadership Positions

Local

2015-present	Director of Health Care Contracting and Payor Policies	Mass. Eye and Ear
2016-2023	Site Director	Mass. Eye and Ear, Waltham
2016-present	Program Director, Anterior Segment Fellowship	Mass. Eye and Ear
2018-present	Director, Refractive Surgery Service	Mass. Eye and Ear

Committee Service

Regional and National

2014 – present	Ophthalmic Services Committee	New England Ophthalmology Society
2015-current	Director of Health Care Contracting and Payor Policies	Massachusetts Eye and Ear Infirmary
2018-current	Refractive Surgery Clinical Committee	ASCRS
2020-current	ASCRS Liaison to the American Board of Ophthalmology	American Board of Ophthalmology
2020-Current	Ophthalmic Technology Assessment Committee (OTAC) Refractive Panel	American Board of Ophthalmology

Professional Societies

2008-current	The Cornea Society
2008-current	Massachusetts Medical Society
2008-current	Fellow, American Academy of Ophthalmology
2011-current	New England Ophthalmological Society

2012- current	American Society of Cataract and Refractive Surgeons
2012- current	Ophthalmic Women Leaders
2014- current	American European College of Ophthalmic Surgeons
2014- current	American Society of Progressive Enterprising Surgeons
2017- current	Women in Ophthalmology, New England
2021- current	The Cornea Society- Member with Thesis

Editorial Activities

Eye
Journal of Refractive Surgery
Cornea
Journal Cataract Refractive Surgery
Dove Medical Press
Cornea Poster Judge, ASCRS

Other Editorial Roles

2013- current	Peer Review Editor	Cataract and Refractive Surgery Today
2015- current	Peer Review Editor	Clinical Ophthalmology
2015- current	Section Editor, Technology Section	Ocular Surgery News
2016- current	Peer Review Editor	Journal of Cataract and Refractive Surgery
2016- current	Peer Review Editor	Journal of Refractive Surgery

2016-current	Peer Review Editor	Cornea
2017-current	Editorial Board	US Ophthalmic Review
2021-current	Editorial Board	Journal of Refractive Surgery Case Reports

Honors and Prizes

1998	Athletics and Academics	Vermont State Woman of the Year	Vermont
1998	Cum Laude	Middlebury College	BA
2005	First Prize Honors	Contact Lens Association of Ophthalmologists, Inc.	Best Scientific Poster
2012	Teaching Award	Brown Ophthalmology Residency	Teaching
2017	Outstanding Female	Millennial Eye Jan/Feb 2017	Leader in Ophthalmology
2016-2018	300 Premier US Innovators	Ocular Surgery News	Refractive Cataract surgery
2018, 2020	Top Doctors Award		Top Doctor
2021	Top 100 Registry, Inc		Top Doctor 2021
2024	Pillars of Excellence Award		MGB

Report of Funded and Unfunded Projects

Funding Information

Past

2010-2011	Besivance Postoperative Cataract Retrospective Surveillance Research funded by Bausch and Lomb, study 677 PI (\$20,000) The major goal of the study was to evaluate the use of besifloxacin in the peri-operative time of cataract surgery retrospectively
2011-2012	Besivance Postoperative Cataract Prospective Surveillance Research funded by Bausch and Lomb, study 678 PI (\$10,000) The major goal of the study was to evaluate the use of besifloxacin in the peri-operative time of cataract surgery retrospectively

- 2011-2012 Besivance Bacterial Keratitis Retrospective Surveillance
Research funded by Bausch and Lomb
PI (\$10,000)
The major goal of the study was to evaluate the use of besifloxacin for bacterial keratitis.
- 2012 Besivance Postoperative LASIK Prospective Surveillance, study 679
Research funded by Bausch and Lomb
PI (\$10,000)
The major goal of the study was to evaluate the use of besifloxacin in the peri-operative period for LASIK surgery.
- 2012 ReSure Ocular Sealant
Research funded by Ocular Therapeutix, Inc
Sub-Investigator
The goal of the study was to evaluate the ReSure Sealant for specified adverse ocular events after sealing corneal incisions in patients undergoing clear corneal cataract surgery.
- 2012 Post Surface Ablation Use of an Eye Shield for Maintaining Vision and Mitigating Pain
Research funded by Nexis Vision Labs
Sub-Investigator
The goal of the study was to evaluate the use of the Nexis Shield to control pain and optimize vision during the healing phase post-PRK.
- 2014 RTA-408 to Prevent Endothelial Cell Loss in Eyes Undergoing Cataract Surgery
Research funded by Reata Pharmaceuticals, Inc.
Primary Investigator (\$30,000)
- 2016 The Role of Intraoperative Aberrometry in Post-Refractive Patients Undergoing Cataract Surgery with Toric IOL insertion
- 2011-2016 Collagen Crosslinking in Asymmetric Corneas, CXLUSA
Open label physician sponsored study evaluating the safety and efficacy of epi-on and epi-off crosslinking
Primary Investigator

Current Funded Projects

- 2021-2023 Vivivity Intraocular Lens for prior monovision patients
Funded by Alcon
Sub-Investigator
(\$87,000)
- 2018-2025 Keratostop; Detecting Biomarkers essential for preventing ectasia prior to performing refractive surgery
The goal is to validate biomarkers for corneal ectasia and keratoconus. These biomarkers could be tested using commercial device prior to refractive surgery and represent a

sensitive screening for ectasia of the cornea.
 Primary Investigator
 Funded by CORNEA Project
 (\$57,000)

2014-2018 Evaluating the Safety and Efficiency Profile of the Femtosecond Laser in Cataract Surgery at a Large Multiuser ASC
 Funding by Abbott Medical Optics
 Sub-Investigator
 The goal of this study is to better quantify the safety and time requirements of the FS laser in cataract surgery.

Unfunded Projects

2021-current Outcomes of Precise Epithelial Removal for Ectatic Corneas Technique (PERFECT) in Corneal Crosslinking (CXL)
 PI, Mass Eye and Ear

2010- 2021 Intacs for Keratoconus, PI, Mass Eye and Ear

2010-2016 Collagen Crosslinking with Ultraviolet-A in Asymmetric Corneas, CXLUSA
 The goal of this study is to evaluate the safety and efficacy of collagen crosslinking in ectatic corneas including keratoconus, post-LASIK ectasia, pellucid marginal degeneration and post-RK

2018-2025 Low-Cost Keratoscope for the Early Detection of Keratoconus

2018
 Collagen Crosslinking with Ultraviolet-A in Asymmetric Corneas, CXLUSA
 Retrospective chart review analyzing efficacy and safety profile of epi-on CXL for ectatic conditions of the cornea

Report of Local Teaching and Training

Teaching of Students in Courses

2002	Gross Anatomy Teaching Assistant 1 st year medical students	University of Vermont College of Medicine 12 hours per week for 6 weeks
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Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2009-2014	Corneal Dystrophy, Laser Cataract Surgery, Management of Cornea Disease 1 st – 3 rd year Ophthalmology Residents	Warren Alpert Medical School of Brown University 1 hour lectures bi-yearly
2012	Invited Faculty for NYU Cataract Course 2 nd and 3 rd Year Ophthalmology NYC Residents	New York University 8 hour cataract course
2014	Corneal Trauma Including Burns	Harvard Medical School

	Medical Students, Ophthalmology Residents and Fellows	1 hour lecture
2016-2018	Topics in Cornea including Keratoconus, Collagen Crosslinking and Advanced Techniques in Corneal Transplantation	Frontier in Corneal Research, MEE 1 hour lecture annually

Clinical Supervisory and Training Responsibilities

2010-2014	Taught cataract and cornea surgery as well as supervised clinics at the Providence VA Medical Center Ophthalmology Residents	Warren Alpert Medical School of Brown University Biweekly 10 hours per session
2008-2014	Supervised clinical care at the MEEI emergency department Ophthalmology Residents	Harvard Medical School One 4 hour session per month
2014-current	Teach/Mentor MEE Cornea fellows in cornea, refractive, cataract and anterior segment surgery	One-two 4 hour sessions/per month
2017-current	Teach/Mentor MEE Anterior Segment fellows in cornea, refractive, cataract and anterior segment surgery	5 4 hour sessions/per month

Formally Supervised Trainees

2012	Helen Moreira, MD/Practicing Cataract and Refractive Surgeon, Faculty Member, Division of Ophthalmology, Brown University Published paper in Clinical Experimental Ophthalmology
2014-present	Cornea Fellows, MEEI Teach Cornea Fellows in the Operating
2017-present	Anterior Segment Fellowship Director, Supervise and Teach MEEI Anterior Seg. Fellow

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

Regional

2009	Complications Related to Descemet's Stripping Automated Endothelial Keratoplasty New England Ophthalmologic Society, Boston, MA
2012	Moderator, Cornea Day New England Ophthalmologic Society, Boston, MA
2012	The Impact of Transplant Surgery on Patients' Lives, Invited Keynote Speaker Northeast Pennsylvania Lions Eyebank Meeting, Harrisburg, VA
2014	Intralase-Enabled DALK New England Ophthalmologic Society, Boston, MA
2014	Complex Cases in Femtosecond Laser Cataract Surgery New England Ophthalmologic Society, Boston, MA
2014	Update in IOL Technology, Nurses Meeting New England Ophthalmologic Society, Boston, MA
2014	Intralase-Enabled DALK New England Ophthalmologic Society, Boston, MA
2014	Guest Speaker, Update in Collagen Crosslinking Maine Ophthalmologic Society, Freeport, ME
2015	Corneal Transplantation; Overview and Techniques in Partial Transplantation New Frontiers in Corneal Research
2016	Incorporating Femtosecond Laser Cataract Surgery into Your Cataract Practice New England Ophthalmologic Society, Boston, MA
2019	Moderator, Refractive Subspecialty Day New England Ophthalmologic Society, Boston, MA
2019	Invited Speaker, Continuing Education for Ophthalmic Medical Professionals Boston, MA
2020	Invited Speaker, Cataract Surgery for Irregular Astigmatism Boston, MA (Virtual Meeting)
National	
2012	Controversies in Keratoconus, Cataract and Custom Ablation, Cornea Crosslinking for Keratoconus, Epi-On? Epi-Off? Chicago, IL ASCRS, Chicago, IL
2013-2014	Invited Course Faculty, Advanced Techniques in Laser Cataract Surgery American Academy of Ophthalmology Annual Meeting, New Orleans, LA

- 2014-2018 Course Moderator and Speaker, Surgical Astigmatism Management for the Cataract Patient; Pre-operative Planning, Intraoperative Techniques and Post-operative Planning ASCRS, Boston, MA
- 2014 Invited Course Faculty, Less than Perfect Outcomes After Uneventful Cataract Surgery: What Are We Missing?
ASCRS Annual Meeting, Boston, MA
- 2014 Invited Course Faculty, Advanced Techniques in Laser Cataract Surgery
American Academy of Ophthalmology, Chicago, IL
- 2014 Invited Course Faculty, Diagnosis and Management of Intraoperative and Post-operative Complications with the Use of the Femtosecond Laser for LASIK Surgery
American Academy of Ophthalmology, Chicago, IL
- 2016 Invited Faculty, Refractive Cataract Surgery, Comprehensive Ophthalmology Physician Program
Hawaiian Eye Meeting, Kona, HI
- 2016 Invited Faculty, Intraoperative Aberrometry, Nursing Program
Hawaiian Eye Meeting, Kona, HI
- 2016 Invited Faculty, Managing Refractive Surprises- When and How to Utilize Laser, IOL Exchange and/or Piggyback IOL.
2016 Cornea Day, New Orleans, LA
- 2016 Invited Faculty, Case Presentations in Cornea: Medical and Surgical Management of Common and Uncommon Corneal Conditions
OSN, New York, NY
- 2016 Invited Faculty, What's New in Cataract Surgery
OSN, New York, NY
- 2016 Invited Faculty, Management of Third World Cataracts in the First World
ASCRS Annual Meeting, Chicago, IL
- 2017 Invited Faculty, Complications of Epi-OFF Crosslinking
2017 Cornea Day, Los Angeles, CA
- 2017 Invited Faculty, Refractive Panel
2017 Refractive Day, Los Angeles, CA
- 2017 Invited Faculty, Collagen Crosslinking, OSN, New York, NY
- 2017 Reviewer, Scientific Paper Session
American Academy of Ophthalmology
- 2018 Invited Faculty, Hawaiian Eye Meeting, Refractive Panel, Maui, HI

2017	Invited Faculty, Refractive Panel ASCRS 2018 Refractive Day, New Orleans, LA
2018	Invited Faculty, Cornea Panel ASCRS 2018 Cornea Day, Washington DC
2018	Invited Faculty, Refractive Subspecialty Day ASCRS 2018 Refractive Day, Washington DC
2018	Invited Faculty, Iris Suturing Course 2018 ASCRS, Washington DC
2018	Invited Faculty, OSN, New York, NY
2018	Invited Faculty, Great Debate Cornea Symposium American Academy of Ophthalmology
2019	Invited Faculty, Cornea Day, ASCRS San Diego, CA
2019	Invited Faculty, ASCRS Refractive and Anterior Segment Symposiums San Diego, CA
2019	Invited Faculty, OSN, New York, NY
2020	Invited Faculty, Hawaiian Eye Kauai, HI
2020	Invited Faculty, Cornea Day, ASCRS Boston, MA
2020	Invited Faculty, ASCRS Refractive and Anterior Segment Symposiums Boston, MA
2020	Invited Faculty, OSN, New York, NY
2019- 2022	Reviewer and Judge AAO and ASCRS
2021	Invited Faculty, Hawaiian Eye Maui, HI
2021	Moderator, Astigmatism Management, ASCRS Las Vegas, NV
2021	Invited Faculty, OSN, NY

2022	Invited Faculty, Hawaiian Eye Kona, HI
2022	Invited Faculty, ASCRS Moderator, Refractive Day, ASCRS Moderator, Symposium, ASCRS Washington DC
2023	Invited Faculty, ASCRS Refractive Day Symposium Speaker San Diego, CA
2023	Invited Faculty, AAO Refractive Day, AAO San Francisco, CA
2024	Invited Faculty, ASCRS Refractive Day Symposium Speaker Boston, MA
2024	Invited Faculty, AAO Refractive Day and general meeting Chicago, IL
2025	Invited Faculty Telling it like it is Orlando, FL
2025	Invited Faculty, ASCRS Moderator, Refractive Day, ASCRS Los Angeles, CA
2025	Invited Faculty Refractive Day and general meeting Orlando, FL
2026	Invited Faculty, ASCRS Moderator, Refractive Day, ASCRS Washington, DC

International

2011	Initial Impressions of Intralase Enabled Anterior Lamellar Keratoplasty for Keratoconus, International Congress on Surface Ablation, Femto-Lasers and Cross-linking, Deer Valley, UT
2012	Femto-Lasers and Cross-linking, The Use of Intacs with Collagen Crosslinking International Congress on Surface Ablation, Femto-Lasers and Cross-linking, Deer Valley, UT
2014	Evaluating Whether Repeat Epi-On CXL Treatments Provide Additive Effects to Improve Outcomes International Congress on Surface Ablation, Femto-Lasers and Cross-linking, Deer Valley, UT
2015	The Use of ORA to Optimize Femtosecond LRIs in Cataract Surgery Advanced Refractive Congress, Deer Valley Utah
2017	Advanced Refractive Congress, Ft. Lauderdale, FL
2019	Advanced Refractive Congress, Ft. Lauderdale, FL

Report of Clinical Activities and Innovations**Current Licensure and Certification**

2007	Massachusetts Medical and Surgical License
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Practice Activities

2008- 2014	Ambulatory Care/Private Practice	Cornea, Cataract, Refractive Surgery, Talamo Hatch Laser Eye Consultants	4 8-10 hour sessions per week
2008- current	Surgery	Cornea, Cataract, Refractive Surgery, Surgisite Boston	4 hours 3 times per month
2008- current	Surgery	Cornea, Cataract, Refractive Surgery, MEEI	8 hours per month
2008- 2014	Ambulatory Care and Surgery	Cornea, External Disease and Cataract, Providence VA Medical Center	10 hours per week biweekly
2014- current	Ambulatory Care/MEEI	Cornea, Cataract, Refractive Surgery, MEEI Waltham	4 8-10 hour sessions per week
2013- 2015	Ambulatory	Cornea, Cataract, Refractive Surgery, Dedham Medical	2.5 8-10 hour sessions per week/

Report of Education of Patients and Service to the Community

Activities

2009-current COPE (Continuing Education for Optometrists)
 Taught continuing education courses for community optometrists relating to topics of cornea, cataract and refractive surgery bimonthly.

Educational Material for Patients and the Lay Community

Books, monographs, articles and presentations in other media

2011-2013	WebMD blog	Co-Author	Clear Views in Cornea and Refractive Surgery
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Book Chapters

2019	Intraoperative Aberrometry Book Chapter	Co-Author	Optimizing Suboptimal Results Following Cataract Surgery (Thieme) Edited by Narang and Trattler New York: 151-156.
2020	Corneal Transplantation; Past and Present	Co-Author	Foundations of Corneal Disease (Springer) Edited by Kathryn Colby and Reza Dana. 2020 Edition
2026	Collagen Crosslinking	Co-Author	Yanoff M, Duker JS, eds. Ophthalmology, 7 th ed

Educational material or curricula developed for non-professional students

2014	Update in Intraocular Lens Technology	Co-Author	ELearning for Technicians
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Report of Scholarship

Publications

Peer reviewed publications in print or other media

Research

1. Landino L, Hasan R, McGraw A, Cooley S, **Masselam KL**, Smith A, Kim G. Peroxynitrite oxidation of tubulin sulfhydryls inhibits microtubule polymerization. *Arch. Biochem. Biophys.* 2002 Feb 15; 398(2): 213-220.
2. Connolly, G, Wladis, G, **Masselam, KM**, Weinberg, DA. Contralateral orbital melanoma 28 years following enucleation for choroidal melanoma. *Orbit.* 2007 Dec; 26(4): 291-4.
3. **Masselam KL**, Dana R. The structure and function of the limbal stem cell and the disease states associated with limbal stem cell deficiency. *Int Ophthalmol Clin.* 2009 Winter; 49 (1): 43-52.
4. Moreira, H, **Hatch KM**, Greenberg, P. Benchmarking outcomes in resident-performed cataract surgery with toric intraocular lenses, *Clin Experiment Ophthalmol.* 2013 Aug; 41(6): 624-6.
5. Talamo JH, **Hatch KM**, Woodcock EC, Delayed epithelial closure after PRK associated with topical besifloxacin use, *Cornea.* 2013, Oct; 32(10) 1365-8.
6. **Hatch, KM**. Consultation section, corneal surgical problem, consultation #3. *J Cataract Refract Surg.* 2013 Oct; 39 (10): 1620-1.
7. **Hatch KM** and Talamo JH. Laser-assisted cataract surgery: benefits and barriers. *Curr Opin Ophthalmol.* 2014 Jan; 25(1): 54-61.
8. **Hatch KH**, Woodcock, EC, and Talamo JH. Toric IOL selection and positioning with and without intraoperative aberrometry. *J Refract Surg.* 2015 April; 31 (4): 237-242.
9. **Hatch KM**, Schultz T, Talamo JH, Dick HB. Femtosecond laser-assisted compared with standard cataract surgery for removal of advanced cataracts. *J Cataract Refract Surg.* 2015 Sep;41(9):1833-8
10. Baharozian C, Song C, **Hatch KM**, Talamo JT. A novel nomogram for the treatment of astigmatism with femtosecond-laser arcuate incisions at the time of cataract surgery. *Clinical Ophthalmology* 2017; 11 1841-1848.
11. Brennar J, Fadlallaj A, **Hatch KM**, Choi C, Sayegh R, Kouyuomjian P, Felix C, Wu S, Fangieh G, Melki S. Accuracy of Estimation of LASIK Flap Thickness. *J Refract Surg.* 2017 Nov 1;33(11):765-767.
12. Song C, Baharozian CJ, **Hatch KM**, Talamo JH. Assessment of surgeon experience with femtosecond laser-assisted cataract surgery. *Clin Ophthalmol.* 2018 Aug 6; 1373-7.
13. Song C, Baharozian CJ, **Hatch KM**, Grassett GC, Talamo JH. Rate of unplanned vitrectomies in femtosecond laser-assisted cataract surgery compared to conventional phacoemulsification. *J Refract Surg.* 2018 Sep 1;34(9):610-614.
14. Wang, M, Zhang, Y, Wu, Wenjing, Young, Joshua, **Hatch, KM** et al. Predicting refractive outcome of small incision lenticule extraction of myopia using corneal properties *Transl Vis Sci Tech,* 2018 Sep 26; 7(5):11.

15. **Hatch, KM**, Ling J, et al Update and Review of Diagnosis and Management of Post-Refractive Surgery Ectasia. J Cataract Refract Surgery, 2021.
16. Lin CC, Rose-Nussbaumer JR, Al-Mohtaseb ZN, Pantanelli SM, Steigleman WA 3rd, **Hatch KM**, Santhiago MR, Kim SJ, Schallhorn JM. Femtosecond Laser-Assisted Cataract Surgery: A Report by the American Academy of Ophthalmology. Ophthalmology. 2022 Aug;129(8):946-954.
17. Al-Mohtaseb Z, Steigleman WA, Pantanelli SM, Lin CC, **Hatch KM**, Rose-Nussbaumer JR, Santhiago MR, Olsen TW, Kim SJ, Schallhorn JM. Toric Monofocal Intraocular Lenses for the Correction of Astigmatism during Cataract Surgery: A Report by the American Academy of Ophthalmology. Ophthalmology. 2024 Mar;131(3):383-392.
18. Pantanelli SM, **Hatch K**, Lin CC, Steigleman WA, Al-Mohtaseb Z, Rose-Nussbaumer JR, Santhiago MR, Keenan TDL, Kim SJ, Jacobs DS, Schallhorn JM. Intraoperative Aberrometry versus Preoperative Biometry for Intraocular Lens Power Calculations: A Report by the American Academy of Ophthalmology. Ophthalmology. 2025 Feb;132(2):238-252.
17. Santhiago MR, Steigleman WA, Al-Mohtaseb ZN, Awad OE, **Hatch K**, Kang JJ, Kuo IC, Lin CC, Pantanelli SM, Suh LH, Rose-Nussbaumer JR, Keenan TDL, Schallhorn JM, Kim SJ, Jacobs DS. LASIK for Hyperopia: A Report by the American Academy of Ophthalmology. Ophthalmology. 2026 Apr;133(4):466-476.
17. Desilets J, Agarwal, K, **Hatch, KM**. Precise epithelial removal for ectatic cornea technique in corneal collagen crosslinking (PERFECT CXL); Technique description and outcomes. Clinical Ophthalmology, in submission.
18. **Hatch, KM**, Donnenfeld et al. Interventional Keratoconus Management: The Critical Imperative for Early Detection and Treatment. Clinical Ophthalmology, in submission.

Publications; Other peer reviewed publications

1. Evangelista, C, **Hatch KM**. Corneal collagen crosslinking complications. Semin of Ophthalmol. Sep 6:1-7.
2. Yong JJ, **Hatch KM** (2019): Corneal Cross-Linking: An effective treatment option for Pellucid Marginal Degeneration, Seminars in Ophthalmology, DOI: 10.1080/08820538.2019.1659832.
3. Ahmed A, **Hatch KM** (2020); Advantages of SMILE, Seminars in Ophthalmology 2020 May 18; 35(4):224-31.
4. Agarwal K, **Hatch K**. Femtosecond Laser Assisted Cataract Surgery: A Review. Semin Ophthalmol. 2021 Jun 4:1-10.

Professional Educational Material or Reports.

1. **Hatch KM**, Talamo JH. Surgical management of cataract and astigmatism. Contemporary Ophthalmology. 2009. May; 8(10): 1-8.
2. **Hatch KM**, Talamo JH. Excimer Basics. Journal of Cataract and Refractive Surgery Today. 2010 Jul; 69-71.
3. **Hatch KM**, Talamo JH. Cover Story: Controlling Inflammation in the Perioperative Period of Cataract and Refractive Surgery. Advanced Ocular Care. 2012 Mar/Apr: 34-37.
4. **Hatch KM**. How to attract young patients to laser vision correction. Cataract & Refractive Surgery Today. 2013 Feb; 13(2): 51-52.
5. **Hatch KM**. Feature Article: Cultivating Leadership. Millennial Eye. 2014 June.
<http://millenniaeye.com/2014/06/feature>
6. **Hatch KM**. Special to Ophthalmology times: Securing reimbursement for CXL. Ophthalmology Times 2018 June.
7. **Hatch KM**, Zar K , Keratoconus Management; Update on CXL and Contact Lens Options. Ophthalmology Management, 2019
8. **Hatch KM**, Matossian CA. Would you implant a multifocal IOL in a patient with age related macular degeneration? Ocular Surgery News, 2019.
9. **Hatch KM**, Cover Story, Growing Variety of IOLs heighten selection challenges, change of success. Ocular Surgery News, 2020.
10. **Hatch, KM**. Guest Editor, Ophthalmology Management, April 2021.
11. Agarwal, K. **Hatch, KM**. Update in Phakic IOL. Corneal Physician. June 2021.
12. **Hatch, KM**. Matossian, C. Ocular Surface Management in Corneal-Based Refractive Procedures. Ophthalmology Management. May 2021.
13. Venkateswaran, N. Hatch, KM. Pupil-Modulating Drops for Patients with Complex Corneas. CRST/CRST Europe, 2022.

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings

- Yong J. **Hatch KM**. A Comparison of Refractive Outcomes between 6.0mm and 6.5 mm Lenticule Diameter Treatments after Small Incision Lenticule Extraction (SMILE). ASCRS Annual Meeting, San Diego, CA 2019.
- Agarwal, KA, **Hatch KM**. Outcomes of Precise Epithelium Removal for Ectatic Corneas Technique (PERFECT) in Corneal Collagen Crosslinking (CXL). ASCRS Annual Meeting, Washington DC, 2022.

Venkateswaran, Nandini, **Hatch KM**. What are the visual outcomes and patient satisfaction of bilateral implantation of the Vivity IOL in patients with a previous history of monovision? ASCRS Annual Meeting, Washington, DC. 2022.

Desilets, J. Agarwal, KA, **Hatch KM**. Outcomes of Precise Epithelium Removal for Ectatic Corneas Technique (PERFECT) in Corneal Collagen Crosslinking (CXL). ASCRS Annual Meeting, Boston, MA, 2024.

Narrative Report

I have been full-time member of the Mass. Eye and Ear Cornea and Refractive Surgery Service since 2014 and have served as the Site Director of Mass. Eye and Ear Waltham between 2015-2023 where I supervised the clinical and administrative operations. In 2018, I become the Director of the Refractive Surgery Service at Mass Eye and Ear and oversee refractive surgery clinical operations, which were consolidated to MEE Waltham in 2018. In 2023 the practice was expanded into Lexington, MA. My goal as the Refractive Surgery Service Director is to assist in the development a Refractive Center of Excellence at MEE, serving the Boston area and beyond. MEE Lexington is currently the expanding place where physicians can provide both exceptional and cutting-edge care with accessibility for patients which allows for continued growth. Since FDA approval in 2017, are still currently the only location in New England that offers SMILE, a promising alternative to LASIK which is likely to be instrumental in building the refractive surgery market around the world. In the coming year, we will be offering CTAK (corneal tissue addition keratoplasty) for patients with keratoconus.

My primary clinical interests include all-laser refractive surgery techniques including, LASIK, SMILE, and PRK, EVO ICL, complex and refractive laser-assisted cataract surgery with intraoperative aberrometry, corneal crosslinking and Intacs (intrastromal corneal ring segments) for keratoconus and post-LASIK ectasia as well as advanced techniques in corneal transplant surgery including CTAK. Since joining the staff, I assisted in bringing new technologies to Mass. Eye and Ear including refractive laser-assisted cataract surgery with intraoperative aberrometry, collagen crosslinking, the Visumax laser (the only laser which performs the small incision lenticule extraction procedure, or SMILE, for the refractive surgical treatment of myopia), and lipiflow and tearcare for dry eye disease.

I have goals for the service to grow at MEE Lexington and refractive surgery across site as well as and maintain its uniqueness in the community and continue to grow the patient refractive surgery experience as a team with the operations, leadership and marketing departments of MEE.

Collagen crosslinking for the treatment of keratoconus has been both a clinical and research focus of my practice since 2011 when I began performing the procedure on an investigational basis. I participated as an investigator in a phase IV clinical trial in which I was performing minimally invasive crosslinking for greater than 5 years. In 2016, I became the first person at Mass. Eye and Ear to perform crosslinking with the FDA-approved technology and am one of the busiest crosslinking specialists in the US. I am currently embarking in a research project to assist in developing a screening tool for keratoconus and post-LASIK ectasia and I would like to see the needle moved in this area to allow for mass screening programs for adolescents. Additionally, I

helped be an integral role in helping establish coverage for the procedure with Massachusetts insurance carriers including BCBS of MA. MEE Lexington is currently the busiest cross-linking center in the US.

Additionally, I have experience in the treatment of ocular surface disease and dry eye, corneal dystrophies and anterior segment reconstruction. I perform cutting-edge corneal transplantation surgery, including both full thickness penetrating keratoplasty and partial thickness transplant surgery, DSAEK (Descemet Stripping Automated Endothelial Keratoplasty), DMEK (Descemets Membrane Endothelial Keratoplasty), and DALK (Deep Anterior Lamellar Keratectomy). I also perform IEK (Intralase Enabled Keratoplasty) and IE-DALK (Intralase Enabled Deep Anterior Lamellar Keratoplasty) and was the first eye surgeon in New England to perform IE-DALK.

My love for teaching and recognition of the importance of resident and fellow education inspired my search of a formal teaching position in addition to volunteering at MEEI. In 2010, I began my tour at the Providence VA Medical Center and had the opportunity to work with US Veterans as well as proctor and lecture ophthalmology residents of Brown University. In 2012, I had the honor of being selected for the resident teaching award by Brown residents and was promoted to Assistant Professor of Ophthalmology. I continued volunteering in the MEEI ER supervising Harvard MEEI ophthalmology residents in as well as teaching MEEI cornea fellows. Since 2014, I have been part of the Cornea and Refractive service and supervise cornea fellows in the operating room. In 2016, I become the Anterior Fellowship Director and began training the fellows starting in the summer of 2017. I was promoted to Assistant Professor of Ophthalmology at Harvard Medical School in 2016.

I have also enjoyed working as a consultant and speaker in the areas of amniotic membrane, dry eye and laser cataract surgery for several ophthalmic companies. Regionally, I serve on the Ophthalmic Services Committee for NEOS and am the Director of Payer Services for MEEI. Additionally, I have been a speaker at Local, Regional, National and International meetings.

In summary, I have established myself as a clinician leader, teacher and clinical researcher and will strive to contribute to my specialty in each of these areas. I feel that the most superior techniques and technologies should be available to physicians and patients in ophthalmology and am fortunate to be part of a community that fosters these goals.