

Curriculum Vitae

Date Prepared: 8/30/2018

Name: Scott Henry Greenstein, MD

Education

9/73-5/77	B.A. cum laude	Molecular Biology	University of Pennsylvania
9/77-5/81	MD Alpha Omega Alpha		Cornell University Medical College

Postdoctoral Training

6/81-6/82	Intern	Department of Medicine	The New York Hospital – Cornell Medical Center
7/82-6/85	Resident	Department of Ophthalmology	The New York Hospital – Cornell Medical Center

Faculty Academic Appointments

7/85-11/87	Clinical Instructor	Ophthalmology	Cornell University Medical College
9/07-6/15	Instructor	Ophthalmology	Harvard Medical School
7/15-present	Assistant Professor	Ophthalmology	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

7/85-11/87	Assistant Attending	Ophthalmology	The New York Hospital – Cornell Medical Center
2/88-8/07	Attending	Ophthalmology	Waterbury Hospital, CT
12/89-8/07	Attending	Ophthalmology	Griffin Hospital, CT
5/07-3/12	Assistant Surgeon	Ophthalmology	Massachusetts Eye and Ear Infirmary

6/07-present	Clinical Associate	Surgery (division of Ophthalmology)	Massachusetts General Hospital
3/12-1/14	Associate Surgeon	Ophthalmology	Massachusetts Eye and Ear Infirmary
1/14-present	Surgeon	Ophthalmology	Massachusetts Eye and Ear Infirmary

Other Professional Positions

1/06-8/07	Chief of Ophthalmology, Department of Surgery, Division of Ophthalmology	Waterbury Hospital, Waterbury, CT
1/07-8/07	Chief of Ophthalmology, Department of Surgery, Division of Ophthalmology	Griffin Hospital, Derby, CT

Major Administrative Leadership Positions

Regional

1993-2001	Director of Medical Education	Connecticut Eye Research Foundation Waterbury, CT
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Committee Service

Local

2007-2008	Operating Room Work Group	Massachusetts Eye & Ear Infirmary (MEEI)
2007-2009	Operating Room Planning Committee	MEEI
2007-present	Surgical Case Review Committee	MEEI
2008	Subcommittee on Informed Consents	MEEI
2008-2009	Search Committee for Chief of Anesthesia	MEEI
2008-2012	Practice Development and Anterior Segment Work Group	MEEI
2008-present	Occurrence Screening Program	MEEI
2015-present	Board of Surgeons	MEEI

Professional Societies

1987-present	American Academy of Ophthalmology	Fellow
1990-present	American College of Surgeons	Fellow
2009-present	New England Ophthalmological Society	Member
2018-present	Societe Francaise d'Ophtalmologie	Member

Editorial Activities

2010, 2014, 2017	Digital Journal of Ophthalmology	Scientific Reviewer
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Honors and Prizes

1975-1976	Alpha Epsilon Delta President	Pre-Medical Honor Society University of Pennsylvania
1980	Alpha Omega Alpha	Cornell University Medical College
2005	Award for Exemplary Peer- Based Performance	Health Net of Connecticut and the Connecticut State Medical Society IPA
2012	Distinguished Service Award	Harvard Medical School, Department of Ophthalmology

Report of Local Teaching and Training

Teaching of Students in Courses

2007-present	OP501-Basic Ophthalmology One-on-one teaching of HMS and visiting medical students in clinic and operating room at MEEI (mentoring of one student each month; 80 hours per month)	HMS
2010:	Shilpa Joshi	HMS
	Lora Dagi	Mt. Sinai
2011:	Erqian Wang	China
	Sonya Trin	HMS
	Jesse Swift	Virginia
	Gabriella Rodriquez	Puerto Rico
	Ivona Mayan	Guatemala
	Eric Gaier	UConn
	Jiun Lap Do	UC San Diego
2012:	Vijay Ganesh	HMS
2013:	Nimesh Patel	Tufts
	Delaney Orbaugh	Guatemala
	Jay Wang	HMS
	Samuel Kim	HMS
	Riza Milante	Philippines
	Shahein Tajmir	HMS
	Evmy Senarathna	Australia
2014:	Luis Escaf	Colombia
	Sophie Cai	HMS
	Eric Shieh	HMS
	Monica Ertel	LSU
	Phoebe Mellen	Jefferson
	Kang Jung Lo	Taiwan
	Caroline Chinchilla	Guatemala
2015:	Mohamed El-Nidany	Egypt
	Isha Agarwal	HMS
	Joseph Anaya	HMS
	Yingna (Snowy) Liu	HMS
	Victoria North	Columbia Univ.
	Melanie Gil	Guatemala
2016:	Emily Gross	HMS
	Laurel Tainsh	Yale
	Mercy Kibbe	Tennessee

	Harman Grewal	India
	Kevin Ma	Columbia Univ.
2017:	Nicola Perlman	HMS
	Meghan Smith	British Columbia
	Liane Dallalzadeh	HMS
	Tina Xia	Yale
	Asad Durrani	Pittsburgh
	Alyssa Ehrlich	HMS
2018:	Janice Kim	HMS
	Damari Croswell	HMS
	Shaunak Bakshi	HMS
	Andy Guo	China
	Ryan Din	HMS
	Kauskik Annam	Brown
	Yi Ling Dai	Beaumont, MI
	Jay Park	Yale

2008-2014	PD-II Preceptor to 6-8 medical students on basics of ophthalmic examination at HMS (3-4 hour session each September)	HMS
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Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2007, 2013, 2014-2016	How to Evaluate Practice Opportunities MEEI residents and fellows	MEEI seminar
2009	Intraoperative Cataract Surgery Complications MEEI residents and fellows	MEEI lecture
2010, 2012	Practice Evaluation and Contract Negotiation MEEI fellows and residents	MEEI seminar
2011	Video commentary on cataract surgery techniques MEEI Cataract Master	MEEI commentary
2011-2013, 2015, 2017	Common Problems in Ophthalmic Office Practice (Anterior Segment and External Disease Diagnosis and Treatment) MEEI residents and fellows	MEEI lecture
2011-2013	Lens and Cataract, Molecular Bases of Eye Diseases	Schepens Eye Research Institute lecture

Schepens research fellows

Clinical Supervisory and Training Responsibilities

2007-present	Direct clinical and surgical training of Harvard ophthalmology residents (80 hours per month; resident as primary cataract surgeon on 30-35 cases per rotation under my supervision)	Comprehensive Ophthalmology Clinic and Operating Room at MEEI
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Laboratory and Other Research Supervisory and Training Responsibilities

2007, 2009-2014, 2016, 2017	Wet-lab instructor for intensive course in cataract surgery/MEEI	Annual 2-day course Boston, MA
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Formally Supervised Trainees and Faculty

2008	Jessica Ciralsky, M.D.	Assistant Professor of Ophthalmology, Weill Cornell Chief cornea fellow and fellow of the year award, 2009
2008	Sandra Montezuma Rondon, M.D.	Assistant Professor of Ophthalmology, U. Minnesota New England Ophthalmologic Society poster winner 2009 Study of lens capsule surface tension with trypan blue dye
2011-13	Daniel Gologorsky, MD.	Bascom Palmer Eye Institute, Miami, FL Resident Conducted and published review of second opinion patients in comprehensive ophthalmology

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

2009	Invited Lecture: “What I Have Learned Teaching Cataract Surgery” HMS Department of Ophthalmology Annual Meeting	Boston, MA
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Report of Clinical Activities and Innovations

Current Licensure and Certification

1985	American Board of Ophthalmology
1986	Connecticut Medical License

2004 Massachusetts Medical License

Practice Activities

7/85-11/87	Ambulatory clinic and surgery	Ophthalmology private practice, New York, NY	Full-time
12/87-8/07	Ambulatory clinic and surgery	Ophthalmology private practice, Waterbury, Ansonia and Torrington, CT	Full-time
9/07-present	Ambulatory clinic and surgery	Comprehensive Ophthalmology and Cataract Surgery , MEEI	Full-time

Clinical Innovations

2008-Article: Sinsky hook useful for releasing adherent acrylic intraocular lens haptics
Ocular Surgery News, Nov 2008

2009- Design of improved surgical instrument for enhanced accuracy in toric intraocular lens implantation
Prototype manufactured by Asico Instrument Company

2011-Article: Cataract tips from the teachers
Eye World, Vol 16, Number 9, September 2011

2013-Cataract Surgery Curriculum for MEEI/Harvard resident education:
Cataract Surgery Pearls (how to successfully handle difficult anatomy)

- a) Prominent brow
- b) Precorneal tear film
- c) Retained subincisional cortex
- d) Posterior synechiae and small pupil
- e) Corneal haze

Report of Education of Patients and Service to the Community

Educational Material for Patients and the Lay Community

Books, monographs, articles and presentations in other media

2008 Commentary on August, 2008 Archives of Interview (HealthDay)

Ophthalmology article “Prevalence of Refractive Error in the United States, 1999-2004”
Arch Ophthalmol. 2008; 126(8):1111-1119

2008	Eight ways to keep your eyes healthy	Interview and article (Foxnews.com)
2009	Eye health through the ages	Interview (CNN.com)
2009	Commentary on drug-delivering contact lenses	Interview (MassDevice.com)
2009	Update on Cataract Surgery	Article (Executive Registry Newsletter)
2009	Contemporary Cataract Surgery	Interview (ABC Television) abcnews.go.com/health
2010	Healthy Aging Program	Appearance (Sirius/XM Radio)
2010	Floppy Eyelid Syndrome and its association with obstructive sleep apnea and keratoconus	Interview (CNN.com)
2010	Eye Exercises	Interview (The Boston Globe)
2010	Femtosecond Laser-Assisted Cataract Surgery	Interview (HealthDay)
2010	Teenage alcohol abuse through the ocular surface	Television appearance (NECN)
2011	Solar glare protection and consequences	Television interview (WCVB)
2011	Eye health and driving	Interview (The Boston Globe)
2011	Ocular toxicity of systemic medications	Interview (WebMD)
2013	Eye health recommendations for photographers	Popular Photography Magazine
2015	Ocular manifestations of systemic diseases	Interview (Oprah.com)

Report of Scholarship

Publications

Peer reviewed publications in print or other media

1. Haik BG, **Greenstein SH**, Smith ME, Abramson DH, Ellsworth RM. Retinal detachment in the morning glory anomaly. *Ophthalmology* Dec 1984; 91 (12): 1638-47
2. Harris LS, **Greenstein SH**, Bloom, AF. Respiratory difficulties with betaxolol. *Am J Ophthalmol* Aug 1986; 102 (2): 274-5
3. deLuise VP, **Greenstein SH**. Trichiasis is a trigger for recurrent corneal graft rejection. *Cornea* Jan 1990; 9 (1): 90
4. Jakobiec FA, Mehta M, **Greenstein SH**, Colby K. The White Caruncle: Sign of a Keratinous Cyst Arising from a Sebaceous Gland Duct. *Cornea* April 2010; 29: 453-45
5. Jiwani AZ, Rhee DJ, Brauner SC, Gardiner MF, Chen TC, Shen LQ, Chen SH, Grosskreutz CL, Chang KK, Kloek CE, **Greenstein SH**, Borboli-Gerogiannis S, Pasquale DL, Chaudhry S, Loomis S, Wiggs JL, Pasquale LR, Turalba AV. Effects of caffeinated coffee consumption on intraocular pressure, ocular perfusion pressure, and ocular pulse amplitude: a randomized controlled trial. *Eye (Lond)*. 2012 Aug; 26(8):1122-30.doi: 10.1038/eye.2012.113. Epub 2012 Jun 8.
6. Gologorsky D, **Greenstein SH**. Retrospective analysis of patients self-referred to comprehensive ophthalmology seeking second opinions. *Clinical Ophthalmology* June 2013; 7 1099-1102
7. Simon SS, Chee YE, Haddadin, RI, Veldman PB, Borboli-Gerogiannis S, Brauner SC, Chang KK, Chen SH, Gardiner MF, **Greenstein SH**, Kloek CE, Chen TC. Achieving target refraction after cataract surgery. *Ophthalmology* 2014; 121: 440-444
8. Cohen LP, Wong J, Jiwani AZ, **Greenstein SH**, Brauner SC, Chen SC, Turalba AV, Chen TC, Shen L, Rhee DJ, Wiggs JL, Kang JH, Loomis S, Pasquale LR. A survey of preoperative blood tests in primary open-angle glaucoma versus cataract surgery patients. *Digit J Ophthalmol*. 2014 Jun 30; 20(2): 20-8
9. Pasquale LR, Jiwani AZ, Zehavi-Dorin T, Majd A, Rhee DJ, Chen T, Turalba A, Shen L, Brauner S, Grosskreutz C, Gardiner M, Chen S, Borboli-Gerogiannis S, **Greenstein SH**, Chang K, Ritch R, Loomis S, Kang JH, Wiggs JL, Levkovitch-Verbin H. Solar exposure and residential geographic history in relation to exfoliation syndrome in the United States and Israel. *JAMA Ophthalmol*. 2014 Sep 4.
10. Sayegh RR, Dohlman CH, **Greenstein SH**, Peli E. The Boston keratoprosthesis provides a wide depth of focus. *Ophthalmic Physiol Opt*. 2014 Nov 25.
11. Pasquale LR, Hanyuda A, Ren A, Giovingo M, **Greenstein SH**, Cousins C, Patrianakos T, Tanna AP, Wanderling C, Norkett W, Wiggs JL, Green K, Kang JH, Knepper PA. Nailfold Capillary Abnormalities in Primary Open-Angle Glaucoma: A Multisite Study. *Invest Ophthalmol Vis Sci*. 2015 Nov 1;56(12):7021-8
12. Finn AP, Borboli-Gerogiannis S, Brauner S, Peggy Chang HY, Chen S, Gardiner M, **Greenstein SH**, Kloek C, Miller JW, Chen TC. Assessing resident cataract surgery outcomes using medicare physician quality reporting system measures. *J Surg Educ*. 2016 May 17.

13. Li D, Taniguchi EV, Cai S, Paschalis EI, Wang H, Miller JB, Turalba AV, **Greenstein SH**, Brauner S, Pasquale LR, Shen LQ. Comparison of swept-source and enhanced depth imaging spectral-domain optical coherence tomography in quantitative characterization of the optic nerve head. *Br J Ophthalmol*. 2016 Jun 13.
14. Cousins CC, Kang JH, Bovee C, Wang J, **Greenstein, SH**, Turalba A, Shen LQ, Brauner S, Boumenna T, Blum S, Levkovitch-Verbin H, Ritch R, Wiggs JL, Knepper PA, Pasquale LR. Nailfold capillary morphology in exfoliation syndrome. *Eye (Lond)*. 2017 May; 31(5):698-707
15. Li D, Li T, Paschalis EI, Wang H, Taniguchi EV, Choo ZN, Shoji MK, **Greenstein SH**, Brauner SC, Turalba AV, Pasquale LR, Shen LQ. Optic nerve head characteristics in chronic angle closure glaucoma detected by swept-source OCT. *Curr Eye Res*. 2017 Sep 18:1-8
16. Taniguchi EV, Paschalis EI, Li D, Nouri-Mahdavi K, Brauner SC, **Greenstein SH**, Turalba AV, Wiggs JL, Pasquale LR, Shen LQ. Thin minimal rim width at Bruch's membrane opening is associated with glaucomatous paracentral visual field loss. *Clin Ophthalmol*. 2017 Dec 8;11:2157-2167
17. Cousins CC, Chou JC, **Greenstein SH**, Brauner SC, Shen LQ, Turalba AV, Houlihan P, Ritch R, Wiggs JL, Knepper PA, Pasquale LR. Resting nailfold capillary blood flow in primary open-angle glaucoma. *Br J Ophthalmol*. 2018 Apr 26.
18. Borkar DS, Moustafa GA, Eton EA, Koullisis N, Kloek CE; Perioperative Care for Intraocular Lens Study Group. Incidence of unexpected peripheral retinal findings on dilated examination 1 month after cataract surgery: Results in the Perioperative Care for Intraocular Lens Study. *J Cataract Refract Surg*. 2018 Jun;44(6):780-781

Non-peer reviewed Scientific or medical publications/materials in print or other media

1. **Greenstein SH**, Abramson DH, Pitts WR. Systemic atropine and glaucoma. *Bull NY Acad Med* Dec 1984; 60 (10): 961-8
2. **Greenstein SH**. Sinsky hook useful for releasing adherent acrylic iol haptics. *Ocular Surgery News*, Nov 2008
3. **Greenstein, SH**. Cataract Tips from the Teachers. *Eye World*, Vol. 16, Number 9, September, 2011

Professional educational materials or reports, in print or other media

Handbook for MEEI/Harvard ophthalmology residents:

Common Problems in Cataract Surgery

1. Cataract Surgery Pearls
2. Intraoperative Floppy Iris Syndrome (Manifestations, Origins, and Management)
3. Negative Dysphotopsia after Cataract Surgery
4. How to Avoid Unhappiness in Multifocal IOL Patients

Narrative Report

I am a full-time clinician in the Comprehensive Ophthalmology and Cataract Consultation Service at the Massachusetts Eye & Ear Infirmary. I evaluate and treat patients with multi-specialty ophthalmic problems and diagnostic dilemmas and perform both complex and routine cataract surgery. This wide clinical experience provides a rich basis for the teaching of residents, students, and other trainees at Harvard.

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Teaching:

I devote more than 80 hours per month to teaching Harvard ophthalmology residents at Mass Eye & Ear and an equal time to teaching both Harvard and visiting medical students. Over the course of their residency, every resident spends 6 to 8 weeks with me on the Cataract and Comprehensive Ophthalmology rotation in the clinic, operating room, classroom, and wet-lab. My practice serves as the primary source of cataract surgery training for senior residents, and I have trained all residents who have graduated from the MEEI/Harvard program since 2007. The residents typically perform 30 cataract operations as primary surgeon under my direct supervision. They assist me on other surgical cases and also work in my clinic, examining and providing diagnoses and treatment plans and then present to me for discussion. In addition, I am a core member of the faculty of the HMS Intensive Cataract Surgery Training Course, teaching cataract surgery techniques to 100 residents from around the country who come to Boston for the weekend course every Spring. In the HMS course OP-501, I mentor one student each month, working with them in patient examination and formulation of differential diagnosis and treatment options, instruct them on cataract surgery procedures, provide teaching sessions on anterior segment diseases, and guide them through their final clinical presentation. I spend about 80 hours with the student during this month long course. In other teaching efforts, I have lectured at the Schepens Eye Research Institute on “Lens and Cataract” in the Molecular Bases of Eye Diseases course. I also conduct lectures and seminars with residents, fellows, and students on topics including “intraoperative cataract surgery complications”, “common problems in office practice (anterior segment and external disease diagnosis and treatment)”, and “how to evaluate practice opportunities.”

Clinical Expertise and Innovation:

My cataract surgical practice plays a crucial role not only in the surgical training of residents but also in building a cataract surgery data base that is enabling us to study and report patient outcomes. Our 2014 paper on achieving target refractions after cataract surgery showed that 94% of patients on our service were within 1 diopter of target by 90 days after surgery. I contributed over 30% of the patients in this report. In our 2013 study of why patients self-refer to comprehensive ophthalmology seeking second opinions, we found that 60% seek confirmation of a diagnosis or request more information, whereas 40% have had an adverse experience. I have single-authored a manual on cataract surgery techniques and dilemmas, intended for use by our residents, entitled *Common Problems in Cataract Surgery*. This manual includes “Cataract Surgery Pearls” which advises resident surgeons on effective methods of handling difficult anatomic problems encountered in cataract surgery. “How to Avoid Unhappiness in Multifocal IOL Patients” utilizes a series of cases to demonstrate the importance of patient selection and addresses patient expectations. I have also written reviews and suggestions for management of “Intraoperative Floppy Iris Syndrome” and “Pseudophakic Negative Dysphotopsia.” In 2009, I designed a surgical instrument to improve the accuracy of toric intraocular lens implantation.

My position at MEEI provides a unique opportunity to manage the entire range of clinical ophthalmology, communicate observations and new developments to the medical community and the public, and to help train the next generation of ophthalmologists.