Harvard Medical School/Harvard School of Dental Medicine Format for the Curriculum Vitae

Date Prepared:	November 1, 2011
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Education

Year	Degree	Field of Study	Institution
1986	BA, cum laude	English	Tufts University College of Liberal Arts
1986	BSME, cum laude	Mechanical Engineering	Tufts University College of Engineering
1993	MD		Columbia University College of Physicians & Surgeons

Postdoctoral Training

Year	Title	Specialty	Institution
7/03-6/94	Intern	Medicine and Surgery	Columbia University Overlook Hospital, Summit, NJ
7/94-6/97	Resident physician	Ophthalmology	Edward S. Harkness Eye Institute, Columbia University
7/97-6/98	Clinical Fellow	Ophthalmic Pathology	Massachusetts General Hospital, Harvard Medical School
7/97-6/99	Clinical Fellow	Ophthalmic Plastic & Reconstructive Surgery	Massachusetts Eye & Ear Infirmary, Harvard Medical School

Faculty Academic Appointments

Year	Academic Title	Department	Academic Institution
7/99-2005	Instructor	Ophthalmology	Harvard Medical School
2005-6	Assistant Clinical	Ophthalmology	Harvard Medical School
	Professor (Part-time)		
2007-	Assistant Professor	Ophthalmology	Harvard Medical School
present	(Full-time)		
2010-	Adjunct clinical faculty	Ophthalmology	New England School of
present			Optometry

Appointments at Hospitals/Affiliated Institutions

Year	Position Title	Department/Division	Institution
7/97-6/99	Associate Staff	Ophthalmology	Massachusetts Eye & Ear Infirmary
7/98-6/01	Staff	Surgery/Ophthalmology	Brigham & Women's Hospital
2002- present	Associate surgeon	Surgery/Ophthalmology	Brigham & Women's Hospital
7/99-2005	Assistant in Ophthalmology	Ophthalmology/Ophthalmic Plastic & Reconstructive Surgery	Massachusetts Eye & Ear Infirmary
4/05- present	Clinical Associate	Surgery/Ophthalmology	Massachusetts General Hospital
2006- present	Assistant Surgeon	Ophthalmology/Ophthalmic Plastic & Reconstructive Surgery	Massachusetts Eye & Ear Infirmary
6/2006- present	Assistant Surgeon	Surgery/Ophthalmology	Beth Israel Hospital
11/04- present	Adjunct Attending	Surgery/Ophthalmology	Vascular Birthmark Institute of NewYork, St. Luke's/Roosevelt Hospital Center

Other Professional Positions

Major Administrative Leadership Positions (local, regional, national and international)

Year	Position Title	Institution
2000	Co-director, Orbital and Ophthalmic Plastic Surgery Dissection Course	Massachusetts Eye & Ear Infirmary
2002	Co-director, Orbital and Ophthalmic Plastic Surgery Dissection Course	Massachusetts Eye & Ear Infirmary
2006- present	Director, Ophthalmic Plastic & Reconstructive Surgery International Fellowship	Massachusetts Eye & Ear Infirmary
2006- 2009	Director, Ophthalmic Plastic & Reconstructive Surgery Fellowship	Massachusetts Eye & Ear Infirmary
2006- 2011	Director, Ophthalmic Plastic & Reconstructive Surgery Service	Massachusetts Eye & Ear Infirmary
2006- 2011	Director, Ophthalmic Plastic and Reconstructive Surgery lecture series	Massachusetts Eye & Ear Infirmary
2009- 2010	Director, ASOPRS-accredited fellowship in Ophthalmic Plastic & Reconstructive Surgery	Massachusetts Eye & Ear Infirmary
2010- present	Director, ASOPRS-accredited, ACGME-accredited fellowship in Ophthalmic Plastic & Reconstructive Surgery	Massachusetts Eye & Ear Infirmary
2009- present	Director, Martin C. Mihm, Jr. Vascular Birthmark Clinic	Massachusetts General Hospital/Massachusetts Eye & Ear Infirmary

<u>Committee Service</u> (local, regional, national and international)

Local

2006-	Department of Ophthalmology Fellowship Committee	Massachusetts Eye & Ear
present		Infirmary
2008-11	Department of Ophthalmology Practice Advisory	Massachusetts Eye & Ear
	Council	Infirmary

Professional Societies

Year(s) of membership	Society Name	
memoersmp		

	Date of Role(s)	Title of Rose(s)
1994-2000	Association for Research in Vision and Ophthalmology	
1994-present	American Academy of Ophthalmology	
2005-present	American Society of Ophthalmic Plastic and Reconstructive Surgery	
	2009-present	Administrator <u>www.ASOPRSForum.org</u> (national society internet forum)
	2009-present	Education committee
	2010-present	ACGME Fellowship and curriculum committees
	2011	Oral Boards Examiner
	2011-present	Information Technology and Website Design Committee
	2011-present	Oral Boards Exam Formulation Committee
2000-present	New England Oculoplastics Society	
	2000-2006	Program Committee
	2006-present	Treasurer
	2007-2009	Acting President
2002-present	Massachusetts Society of Eye Physicians & Surgeons	
2012-present	The Orbit Society	

Grant Review Activities

Year of Membership	Name of Committee	Organization
	Date(s) of Role(s)	Title of Role(s)
2012-present	Harvard Catalyst Advanced Imaging Pilot Research Grants Program	Harvard Clinical and Translational Science Center
	2012-present	Ad hoc member

Editorial Activities

Ad Hoc Reviewer

Ophthalmology
Archives of Ophthalmology
Ophthalmic Plastic & Reconstructive Surgery
Journal of Dermatology
Indian Journal of Ophthalmology
European Journal of Dermatology
Mideast Journal of Ophthalmology
Lasers in Medicine and Surgery

Other Editorial Roles

Year	Role	Journal Name
1992-4	Founding Editor	P&S Medical Review

Honors and Prizes

1993	Phi Lambda Kappa Alvin Behrens	Columbia University	Outstanding medical student research in
	·		
	Memorial Award		ophthalmology
2006	Physician of the Year	Vascular Birthmark Foundation	Outstanding research and treatment of vascular
			birthmarks
2007	Eleanor and Miles Shore Scholars in Medicine Award	Harvard Medical School	Junior faculty award for research in ophthalmic plastic and reconstructive
			surgery

Report of Funded and Unfunded Projects

Funding Information

Past

Current

2008-	Site PI/Long term results of retinoblastoma patients treated with proton radiation	
present		
	NIH/NCI Federal share of program income earned by Massachusetts General Hospital on C06 CA059267 (Hospital Protocol 10-04-030)	
	Site PI	
	The major goal of this study is to determine efficacy and adverse effects of proton	
	irradiation on the orbit in patients with retinoblastoma.	
2010-	Efficacy of bimatoprost to enhance eyelash growth in children with ehemotherapy-induced	
present	alopecia	
	Phase 3B drug trial, industry grant # (Allergan)	
	Principal Investigator (\$)	
	The major goal of this study is to determine the efficacy and safety of bimatoprost in	

pediatric patients.

Current Unfunded Projects

2005	DI/Oakital danala marantin Nationa Americana	
2005-	PI/Orbital development in Native Americans	
present		
	The purpose of this project is to determine the rate of infantile orbital development and to	
2000	determine the age of orbital maturity as it pertains to periocular vascular anomalies.	
2008-	PI/Encapsulated venous malformations and infantile hemangiomas of the orbit	
present		
	The purpose of this project it to classify definitively the glut 1-negative, venous lesion	
	mislabeled in ophthalmic literature as "cavernous hemangioma."	
2010-	Mentor/Idiopathic sclerosing orbital inflammation	
present		
	The purpose of this project is to determine optimal diagnostic and therapeutic protocols	
	and develop a consensus among leading experts in the field.	
2010-	PI/Gravitational bleomycin orbital sclerosis	
present		
	The purpose of this project is to develop the optimal protocol for sclerosing orbital	
	lymphatic and venous malformations.	
2008-	PI/Ultra-high speed videography in normal patients and patients with paralytic	
present	lagophthalmos	
	The purpose of this study is to demonstrate the feasibility of ultra-high speed videography	
	to evaluate eyelid movement and velocity.	
2008-	PI/Levine palpebral spring procedure	
present		
	The purpose of this project is to advance the development of the Levine palpebral spring	
	and to develop third- and fourth-generation eyelid implants.	
2010-	PI/Clinical implications and treatment algorithms in patients with periocular infantile	
present	hemangiomas	
	The purpose of this study is to review 450 cases of children with infantile hemangioma,	
	determine the frequency and degree of vision-threatening conditions, and summarize the	
	indications and effects of early intervention	
2010-	PI/Recommendations for surgical extirpation of periocular infantile hemangiomas	
present		
•	The purpose of this study is to delineate previously unrecognized findings in cases of	
	orbital and eyelid hemangiomas, and to recommend approaches to surgical treatment in	
	cases in which surgery is indicated.	
2009-	Co-PI/Highly selective facial neurectomy in patients with intractable blepharospasm	
present		
-	The purpose of this study is to develop protocols to treat disabling blepharospasm in cases	
	refractory to standard methods	
2009-	Mentor/High-speed debrider in orbital decompression	
present		
1	The purpose of this study is to introduce a useful tool into orbital surgery.	
2009-	PI/The role of prophylactic antibiotics in oculoplastic surgery	
	r r r r r r r r r r r r r r r r r r r	
present		

	surgery should be given prophylactic, postoperative antiobiotics	
2010-	PI/Investigational surgical device	
present		
	The purpose of this study is to develop an electronically assisted device to improve tear	
	duct surgery	

Report of Local Teaching and Training

Teaching of Students in Courses		
1994-7	Ophthalmology Major Clinical Year	Columbia University College of Physicians
		& Surgeons
	150 3 rd year medical students	1 hour lecture/yr
1994-7	Science Basic to the Practice of Medicine	Columbia University College of Physicians
	and Dentistry	& Surgeons
	150 1 st year medical students	Dissection instructor 5 1-hour sessions/yr

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

1999	Orbital Anatomy and Emergency	Massachusetts Eye & Ear Infirmary
	Oculoplastic Surgery for Otolaryngologists	
	10 otorhinolaryngology residents	2 hour lecture
1997-2006	Ophthalmic Plastic & Reconstructive	Massachusetts Eye & Ear Infirmary
	Surgery lecture series	
	ophthalmology residents and fellows	2-3 1-hour lectures/yr
2006-	Oculoplastics Journal Club (Facilitator	Massachusetts Eye & Ear Infirmary
present	2006-2012)	
	Oculoplastics fellows and ophthalmology	Bi-monthly
	residents	
2005-	Emergency Room Chart Review	Twice per year
present		
	Ophthalmology residents	2-3 30-minute review sessions per year

Clinical Supervisory and Training Responsibilities

1999-2006	Associate preceptor, Ophthalmic Plastic & Reconstructive Surgery Fellowship/Harvard Medical School, Massachusetts Eye & Ear Infirmary	2.5 days/week instruct and supervise clinical fellow
1999-present	at ad	2.5 days/week instruct and supervise residents
2002-2010	Preceptor, visiting medical students, 1- month individual clinical rotations in ophthalmology/Harvard Medical School, Massachusetts Eye & Ear Infirmary	Daily supervision of an individual student for one-two months per year
2005-present	Co-Preceptor, Harvard Medical Students, 1- month clinical rotations in	2.5 days/week mentorship of a single HMS medical student for one month at a time

ophthalmology/Harvard Medical Sc	hool,
Massachusetts Eye & Ear Infirmary	

Laboratory and Other Research Supervisory and Training Responsibilities

2006-present Supervision of post-doctoral research fellow Daily mentorship for 12-month program

Formally Supervised Trainees

2005-7	Calliope Allen, MD/Commander, US Navy, Division Head US Naval Hospital, San Diego	
2006-2007	Youngjae Lee, MD/ Associate Professor (Ophthalmic Plastic Surgery), Seoul, Korea	
2007-9	John Nguyen, MD/ Assistant Professor of Ophthalmology, West Virginia University	
	Published twelve manuscripts including one in the Journal of Pediatrics and one in the	
	American Journal of Ophthalmology	
2007-9	Kristine Lo, MD/ Resident in Ophthalmology, Mass Eye and Ear	
2007-9	Manisha Mehta, MD/ Resident in Pathology, Brigham & Women's Hospital	
2009-10	John Pemberton, DO/ Assistant Professor of Ophthalmology, Director of Ophthalmic	
	Plastic Surgery, University of Arkansas	
	Authored one textbook, Developed one new surgical device, published one major review	
	article, and conducted one major clinical trial	
2010-2011	Yvette Santiago, MD/ Assistant Professor of Ophthalmic Plastic Surgery, University of	
	Philipines, Manila	
2011-	Dawn De Castro, MD/ Clinical Fellow in Ophthalmic Plastic & Reconstructive Surgery,	
present	Mass Eye & Ear	
2011-	Tammy Osaki, MD/ Research Fellow in Ophthalmic Plastic & Reconstructive Surgery,	
present	Mass Eye & Ear	
2012-	Prashant Yadav, MD/ Clinical Fellow in Ophthalmic Plastic & Reconstructive Surgery,	
present	Mass Eye & Ear	

Local Invited Presentations

No presentations below were sponsored by outside entities.

Year(s)	Title of presentation/Type of presentation	
	Department and institution where presented	
2003	Ophthalmic considerations in the management of pediatric vascular malformations/Grand	
	Rounds	
	Department of Dermatology, Brigham & Women's Hospital	
2007	Oculocentric approach to orbital surgery/Grand Rounds	
	Department of Oral and Maxillofacial Surgery, Massachusetts General Hospital	
2008	Helping Children Face the World/Keynote speaker	
	Annual Spring Meeting, Massachusetts Eye & Ear Infirmary	
2010	Vascular Anomalies Science: Clinico-Pathologic Collaboration/Grand Rounds	
	Department of Dermatology, Massachusetts General Hospital	
2011	Ocular and Periocular Trauma/Grand Rounds	
	Department of Oral/Maxillofacial Surgery, Massachusetts General Hospital	
2011	Lasers in Oculoplastic Surgery/Invited lecture	

Laser Update in Facial Plastic Surgery (course), Boston, MA	
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<u>Report of Regional, National and International Invited Teaching and</u> <u>Presentations</u>

No presentations below were sponsored by outside entities.

Invited Presentations and Courses

Regional

Year	Title of presentation or name of course/Type of presentation/role	
	Location	
2007	Concepts and Management of Periocular Hemangiomas/Keynote speaker	
	Harvard Medical School Update on Ophthalmology, Massachusetts Eye & Ear Infirmary	
2009	Beyond Blepharoplasty: Eyelid Evaluation and Management/Annual Meeting/Keynote speaker	
	Massachusetts Society of Optometrists	

National

Contemporary management of hemangiomas and vascular malformations of the head and
neck: orbital and periorbital lesions/Plenary Talk
American Academy of Pediatrics Section on Bronchoscopy and Otolaryngoscopy
Ophthalmic considerations of port wine stains/Plenary talk
Port wine stain conference, Beckman Laser Institute, University of California Irvine
Ophthalmic Concerns in Vascular Anomaly Patients/Invited speaker
Biennial Conference, Vascular Birthmark Foundation, Boston
Hemangiomas and Vascular Anomalies/Grand Rounds
State University of New York Upstate Medical Center Department of Ophthalmology
Periocular Hemangiomas in Children/Grand Rounds
State University of New York Upstate Medical Center Department of Pediatrics
Periocular Vascular Anomalies/Grand Rounds
State University of New York Upstate Medical Center Department of Otolaryngology-
Head and Neck Surgery
Orbital Vascular Anomalies/Invited speaker
Biennial Conference, Vascular Birthmark Foundation, New York
Treatment of Facial Paralysis- Acute and Chronic/Invited section talk
Triological Society Easter Section Meeting
Periocular Vascular Anomalies/Invited section talk
Association of Ophthalmic Operating Room Nurses Annual Meeting
Infantile Hemangiomas/Visiting Professor
Albany Ophthalmology Update, Albany Medical Center, Albany, New York
Periocular Vascular Malformations/Visiting Professor
Albany Ophthalmology Update, Albany Medical Center, Albany, New York
Eyelid Reanimation: The Levine Palpebral Spring/Visiting Professor
Albany Ophthalmology Update, Albany Medical Center, Albany, New York
Eyelid Malpositions: Entropion, ectropion, and the ptoses/Invited speaker
Osler Institute, Natick, Massachusetts
The Lacrimal Drainage System/Invited speaker

	Osler Insitute, Natick, Massachusetts	
2011	Orbital Trauma/Invited speaker	
	Osler Institute, Natick, Massachusetts	
2012	Eyelid Anatomy and Malpositions: Entropion, Ectropion, and the Ptoses/Invited Speaker	
	Osler Institute, Tampa, Florida	
2012	The Lacrimal Drainage System/Invited speaker	
	Osler Institute, Tampa, Florida	
2012	Orbital Anatomy and Trauma/Invited speaker	
	Osler Institute, Tampa, Florida	
2012	Eyelid Anatomy and Malpositions: Entropion, Ectropion, and the Ptoses/Invited Speaker	
	Osler Oral Board Review Course, San Francisco	
2012	The Lacrimal Drainage System/Invited speaker	
	Osler Oral Board Review Course, San Francisco	
2012	Orbital Anatomy and Trauma/Invited speaker	
	Osler Oral Board Review Course, San Francisco	
2012	Eyelid Malpositions/ Invited Speaker	
	Ophthalmology Board Review Course, San Francisco	
2012	Lacrimal System Review/ Invited Speaker	
	Ophthalmology Board Review Course, San Francisco	
2012	Orbital Trauma/ Invited Speaker	
	Ophthalmology Board Review Course, San Francisco	

International

1997	Phacoemulsification (Small incision cataract surgery)/Invited speaker
	Seva Foundation, Madurai, India
2001	Surgical treatment of eyelid and lacrimal disorders/Invited speaker
	Orbis International, Urumqi City Hospital, Xian province, China
2003	Introduction to oculoplastic surgery/invited speaker
	Queen Elizabeth Hospital, Bridgetown, Barbados
2004	Oculoplastic Manifestations of Orbital and Periorbital Vascular Tumors/Plenary
	session/Keynote speaker
	Indian Medical Society, Dahod Branch, Gujarat, India
2004	Introduction to oculoplastic and lacrimal surgery/Grand Rounds
	Drashti Natralaya Eye Hospital, Dahod, Gujarat, India
2009	Periocular Hemangiomas and Vascular Malformations/Plenary talk
	Conference on Vascular Birthmarks, St. Joseph Krankenhaus, Berlin
2010	Periocular Hemangiomas: The Past Decade/Plenary talk
	Oculoplastics Today 2010, Israeli Ophthalmologic Society, Tel Aviv, Israel
2010	Diagnosis and Treatment of Periocular Vascular Anomalies/Invited speaker
	Pediatric Oncology Symposium, Wroclaw, Poland
2011	Infantile Hemangiomas: diagnosis and treatment/Invited speaker
	34 th SIMASP, Sao Paolo, Brazil
2011	Gravitational Bleomycin Orbital Sclerosis in the management of vascular
	malformations/Invited speaker

	34 th SIMASP, Sao Paolo, Brazil	
2011	Shanghai ENT Hospital, Fudong University, Shanghai/Visiting Professor	
	A Brief History of Periocular Infantile Hemangioma Treatment	
2011	Henan Eye Institute, Zhengzhou, Henan, China/Visiting Professor	
	Eyelid Reanimation: The Levine Procedure	
2011	Henan Eye Institute, Zhengzhou, Henan, China/Visiting Professor	
	(小儿血管性病变)A Brief History of Hemangioma Treatment	
2011	Infantil Hemangiomas uma década de cada vez /Invited speaker	
	XXXVI Congresso Brasileiro Oftalmologia, Porto Alegre, Brazil	
2011	Fracturas Orbitales/Invited speaker	
	XXXVI Congresso Brasileiro Oftalmologia, Porto Alegre, Brazil	
2011	Reanimação Palpebral Procedimento de Levine/Invited speaker	
	XXXVI Congresso Brasileiro Oftalmologia, Porto Alegre, Brazil	
2011	Eyelid Reanimation: The Levine Procedure/Invited speaker	
	Oculoplastics Subspecialty Day Brazilian Ophthalmology Congress/Invited speaker	
2011	Wenn eine Operation in Periokuläre Hämangiom?	
	Deutsch Netzwerk von Anomalien Vaskularen, Inaugural Meeting, Berlin/Invited speaker	
2012	Decision 2012: If, When, and How to Treat Infantile Hemangiomas/Invited speaker	
	35 th SIMASP, Sao Paolo, Brazil	
2012	Facial Paralysis: Levine Palpebral Spring Update/ Invited speaker	
	35 th SIMASP, Sao Paolo, Brazil	
2012	Antibiotics in Orbital Surgery/Invited Speaker	
	35 th SIMASP, Sao Paolo, Brazil	
2012	Medical and Surgical Management of Orbital Vascular Disease/Invited Speaker	
	Royal Society of Ophthalmology, Liverpool, England	
2012	The Propranolol Paradox/Invited Speaker	
	Royal Society of Ophthalmology, Liverpool, England	
2012	Management of Orbital Vascular Malformations/Invited Speaker	
	Italian Society of Pediatric Surgery, Milano	

Report of Clinical Activities and Innovations

Current Licensure and Certification

1993	New York Medical License
1997	Massachusetts Medical License

Practice Activities

Year	Type of activity	Name and location of	Level of activity
		practice	
1999-	Ambulatory Care	Ophthalmic Plastic &	1 full day per week (12 hours)
2006		Reconstructive Surgery,	
		Massachusetts Eye & Ear	
		Infirmary	
1999-	Surgery	Ophthalmic Plastic &	1 full day per week (12 hours)
2006		Reconstructive Surgery,	
		Massachusetts Eye & Ear	

		Infirmary	
1999-	Surgery	Massachusetts General	1 day per month (combined
present		Hospital	surgical cases)
1999-	Ambulatory Care	Hemangioma and Vascular	1 Saturday per month
2010		Malformation Clinic,	(multidisciplinary clinic)
		Massachusetts General	
		Hospital	
2006-	Ambulatory Care	Ophthalmic Plastic &	3 days per week (25 hours)
present		Reconstructive Surgery,	
		Massachusetts Eye & Ear	
		Infirmary	
2006-	Surgery	Ophthalmic Plastic &	3 days per week (35 hours)
present		Reconstructive Surgery,	
-		Massachusetts Eye & Ear	
		Infirmary	
2010-	Ambulatory Care	Martin C. Mihm, Jr. Vascular	1 Saturday per month
present		Birthmark Clinic,	(multidisciplinary clinic)
		Massachusetts Eye & Ear	
		Infirmary	

<u>Clinical Innovations</u>

Name/location of clinical innovation (dates if	Describe the influence or potential influence of the
applicable)	innovation on clinical care or practice managemen
Ophthalmic Plastic Surgery Continuity clinic (2007-	Upon taking direction of the oculplastics clinic, I
present)	expanded ambulatory services to 5 days/week from the
	one day/week model that had existed. Attending leve
	care is now available every day.
Ophthalmic Plastic Surgery Fellows Clinic (dissolved	Ambulatory clinics in oculoplastics are no longer
2007)	staffed by oculoplastics trainees, but by attending
	surgeons.
Electronic submission of surgical bills (2010)	This modification of our practice billing pattern allow
	for immediate submission of surgical bills sent direct
	from our electronic surgical database. It improves
	reliability and tracking and eliminates lag and loss of
	surgical bills.
Fellowship certification by the American Society of	Our fellowship in oculoplastic surgery had been an
Ophthalmic Plastic and Reconstructive Surgery (2009)	1 11 1
	the fellowship in accordance with the ASOPRS
	bylaws and obtained ASOPRS accreditation for the
	fellowship.
Web-based video-conference fellowship interviews	In 2009 we received 45 applications for our 2011
(2009)	ASOPRS fellowship. I was able to interview more
	than 30 candidates for 1 hour using Skype video
	teleconference. Several ASOPRS program directors
	heard about my method and asked me to help them d
	the same. It is expected that a majority of fellowship

	programs will use this form of screening to save time
	and money for fellowship applicants and programs.
Ophthalmic Plastic Surgery Cosmetic Suite (2010)	In 2008 the American Society of Ophthalmic Plastic
	and Reconstructive Surgery adopted the term "oculo-
	facial surgery" to describe the range of conditions we
	treat. In accordance, I conceived a plan to develop a
	cosmetic suite at our institution similar to facilities at
	the leading oculoplastics institutes in the country.
	This facility (opening 3/2011) is expected to expand
	services and enhance fellowship and residency
	training.
Electronic Health Records (2010)	Working with my colleagues in Plastic Surgery at
	Massachusetts General Hospital, we developed an
	electronic scanning system to eliminate entirely
	permanent paper charts. This is expected to eliminate
	chart loss and improve patient care continuity and
	decrease patient complaints related to chart
	misplacement.
Martin C. Mihm, Jr. Vascular Birthmark Clinic (2010	By working with the other founding members of the
	clinic and the department of ophthalmology, we have
	given the clinic a permanent home on the MGH/MEE
	campus. Patients will now have access to
	comprehensive, multidisciplinary care and protocols.

Report of Technological and Other Scientific Innovations

Anterior capsule staining to improve cataract surgery (1995)	Association for Research in Vision and Ophthalmology 1995 Annual Meeting Abstract Catalogue
	I conceived of anterior capsule staining and performed animal studies using 3 common stains: fluroscein, indocyanine green, and methyl blue to demonstrate the utility of anterior capsule staining to facilitate anterior capsulotomy, allowing advanced cataracts to be safely treated with phacoemulsification. This procedure is now performed thousands of times each year, worldwide.
Web-based international subspecialty exchange (2009- present)	www.AOPRSForum.org
	Using existing software for operating system development, I developed a Forum for members of the American Society of Ophthalmic Plastic and Reconstructive Surgery. My fellow and I used open access phpBB software to develop the Forum, which has become the national standard for case exchange, billing and practice management discussions, employment advertisement, and meeting announcements.
Lacrimal surgery stent	Patent Pending

The second second second	I developed a technique and implantable device to treat intractable dacryocystitis in patients with inflammatory mucous membrane disease such as sarcoidosis and Wegener's granulomatosis.
Lacrimal probe enhancer	Patent number
	I developed a device to facilitate tear duct probe procedures and to aid in teaching this type of surgery. It is expected that this device will become a standard operating room tool for training programs and for smaller hospitals where this surgery is performed less frequently.
Orbital fracture implant	Patent pending
	I developed an improved porous implant for use in orbital reconstruction. It is expected that this material will replace the standard implant in a majority of orbit (and perhaps other facial) reconstruction cases.
Chinese Delegation	Coordinated 10-member Team of Leading Chinese Oculoplastic Surgeons on an academic visit and tour to USA including University of Michigan and Mass Eye and Ear/Harvard University

Report of Education of Patients and Service to the Community

Activities

Brookline Public Schools 4 th Grade sheep eye dissection course/Director-instructor	
Gave annual ¹ /2-day lecture and dissection course to 4 th grade classes.	
Scholastic ScienceWorld	
Consultant to national elementary school magazine on lacrimal drainage system	
Orbis International, Kingston Public Hospital, Kingston, Jamaica	
Instructed resident ophthalmologists in basic oculoplastic surgery	
Scholastic ScienceWorld	
Medical consultant to national elementary school magazine on thyroid eye disease	
African Fellowship Initiative/Director and Founder	
Created and obtained funding for one-year international fellowship in ophthalmic	
plastic & reconstructive surgery to be awarded preferencially to candidates from	
underserved regions of the world with emphasis on sub-Saharan Africa	
Community-based faculty lecture series	
Created 10-part lecture series in ophthalmic plastic & reconstructive surgery with	
integrated faculty from full-time staff and MEEI-based community ophthalmic	
plastic surgeons	
Graves Disease Foundation Patient Support Group/Director and facilitator	
Developed a support group for patients with thyroid eye disease, invited faculty	
speakers, and forged a collaboration with our local group and the national foundation	
Orbis International, Kingston Public Hospital, Kingston, Jamaica	
Instructed resident ophthalmologists in basic oculoplastic surgery	
Massachusetts Board of Registration in Medicine/Expert Physician	
Review individual case reports of physician malfeasance for the state board	
New York Board of Medicine/Expert Physician	
Review individual case reports of physician malfeasance for the state board	

2009-present	College of Physicians and Surgeons of Nova Scotia/Expert Physician			
	Review individual case reports of physician malfeasance for the state			
2010	Benign Essential Blepharospasm Foundation Patient Support Group/Invited speaker			
	Lecture on etiology, treatment alternatives, and current research on spastic eyelid			
	disorders.			
2010	International medical equipment exchange/Founder			
	We developed and completed a pilot exchange program with IMEC International to			
	distribute surplus MEEI hospital supplies to needy hospitals around the world.			
	Ultimately, we hope to grow this into a Boston-wide program that will decrease			
	waste and landfill, and support outpatient and inpatient services internationally.			
2011	Chai Medical Division Senior Mentor			
	Help board of directors establish a CME course in medical ethics for Boston area			
	house officers			
2012	Brookline Public Schools sheep eye dissection course/Director-instructor			
	¹ / ₂ -day lecture and dissection course to 5 th grade classes			
2012	Benign Essential Blepharospasm Foundation Patient Support Group/Invited speaker			
	Lecture on dry eye and secondary blepharospasm, and recent innovations in the			
	treatment of benign essential blepharospasm			

Educational Material for Patients and the Lay Community

No educational materials listed below were sponsored by outside entities.

Books, monogra	phs, articles and presentations in other media

None		

Educational material or curricula developed for non-professional students

2005	Scholastic News, Eye	Expert consultant on orbital	Scholastic News
	Popping	anatomy	
2007	Scholastic News, Eye	Expert consultant on tear duct	Scholastic News
	Squirting	function	

Patient educational material

2003	Tear Duct Surgery	Author	Patient education pamphlet, Massachusetts Eye & Ear
			Infirmary
2005	Thyroid Eye Disease	Author	Patient education pamphlet,
			Massachusetts Eye & Ear
			Infirmary

Recognition

None

Report of Scholarship

Publications

Peer reviewed publications in print or other media

Research Investigations

- 1. **Fay AM**, Trokel SL, Myers JA. Pupil Diameter and the Principal Ray. *J Cataract and Refractive Surgery* 1992;4:348-351.
- 2. Rubin PAD, Fay AM, Remulla HD, Maus M. Ophthalmic Plastic Applications of Acellular Dermal Allografts. *Ophthalmology* 1999;106:2091-7.
- 3. Rubin PAD, **Fay AM**, Remulla HD. Primary Placement of Motility Coupling Post in Porous Polyethylene Orbital Implants. *Archives of Ophthalmology* 2000;118:826-32.
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Thesis

None

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Narrative Report (limit to 500 words)

For 14 years I have worked as an academic and community-based oculoplastic surgeon, and have developed subspecialty expertise in vascular anomalies. For eight years my effort was divided between clinical practice (50%), research (25%), and teaching (25%). For 5 years I directed the plastic surgery service in the department of ophthalmology at Mass Eye & Ear where we expanded the service from a single attending to 4.5 full time surgeons.

My clinical practice has always been extremely busy. Initially, I covered several satellite practices in greater Boston, while maintaining an academic clinical practice at MEEI. My patients comprise mundane and exceedingly complex cases; several have been highlighted in the mainstream media. I curtailed much of the satellite and took on the role of service director. During fellowship I joined the fledgling Vascular Birthmark Clinic at MGH, an association that led to my research and clinical expertise in periocular vascular anomalies. I have been invited to speak on the topic in several countries, and receive numerous national and international referrals for these patients. I have developed several operations to treat periocular vascular anomalies, written medical protocols, and published extensively on the natural history and treatment of these lesions.

Over the past twelve years, I have innovated in three distinct areas: minimally invasive tear duct surgery, vascular anomalies, and paralytic eyelid reconstruction. I was the first in New England and one of the first in the country to perform endocanalicular laser surgery, and published the largest series to date on that topic. In addition to basic research in orbit development, I am currently preparing three manuscripts of the world's largest series of periocular vascular anomalies. I am also working closely with Dr. Robert Levine, the world's foremost authority on paralytic eyelid restoration, on third generation dynamic eyelid implantation, and hope to make this the cornerstone of my next decade of research.

I have been teaching students grammar school through fellowship since my own fellowship. For many years I have taught a fourth grade sheep eye dissection course. I have mentored high school and college students for several summers. I have volunteered to teach medical students for one week or one month electives. For the first eight years of practice, I worked very closely with ophthalmology residents and at one point published with 7 consecutive residents. Since becoming service and fellowship director, I have done more teaching at the fellow level. I have played a substantial role in mentoring more than 15 fellows.

During five years as service director, we expanded from one weekly clinic to a full-time service in which subspecialty clinic is conducted 5 full days per week. Outside the clinical practice, I serve as treasurer and interim president of the New England Oculoplastics Society, organizing two meetings per year. I developed and administer the international internet discussion group for the American Society of Ophthalmic Plastic and Reconstructive Surgery, and sit on a committee for that organization in ACGME accreditation. I actively participate in Orbis international training programs.

In summary, mine is a complex academic practice in general and subspecialty ophthalmic plastic surgery with a top fellowship program and active clinical research.