



CEDARS-SINAI MEDICAL CENTER

CURRICULUM VITAE

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Education: B.A.; University of California—Los Angeles, 1999
M.D.; Drexel University College of Medicine, Philadelphia, 2004
Internship: Case Western Reserve University College of Medicine/University Hospitals, 2005
Residency: Case Western Reserve University College of Medicine/University Hospitals, 2009
Fellowship: Harvard Medical School/ Massachusetts General Hospital, 2012

Licensure: California Medical Board License, Active

Board Certification: American Board of Otolaryngology—Head and Neck Surgery

Professional Experience: Laryngeal Surgeon, Cedars Sinai Medical Group, present
Assistant Professor of Surgery, Harvard Medical School, 2016
Instructor of Surgery, Harvard Medical School, 2012
Assistant in Surgery, Massachusetts General Hospital, 2012
Clinical Instructor in Otolaryngology, Case Western Reserve University School of Medicine, 2010
Attending Surgeon in Otolaryngology, MetroHealth Hospital, 2010

Professional Activities: National AAO committee member: Women in Otolaryngology Awards Committee, 2014-2016
Ad hoc Reviewer for the following editorial journals:
Annals of Otology, Rhinology, and Laryngology
Annals of Surgery
Clinical Otolaryngology
Professional Society Activities:
American Academy of Otolaryngology-Head and Neck Surgery Member
American Board of Otolaryngology Fellow
Association of Women Surgeons Member
American Broncho-Esophagological Association (ABEA) Active Member
American College of Surgeons (ACS) Fellow
American Laryngological Association (ALA) Postgraduate Fellow

Report of Local Teaching and Training:

Teaching of Students in Courses

Teaching prior to Harvard appointment		
1998	Human Anatomy Jr. Physiological Studies Students	University of California, Los Angeles
2003	Human Anatomy 1 st Year Medical Students	Drexel University College of Medicine
2008-2010	ENT Physical Exam 2 nd year medical students	Case Western Reserve University School of Medicine
Teaching during Harvard appointment		
2010-2011	Voice Disorders Course: CD 832 Speech and Language Pathology students	MGH-IHP (Institute of Health Professionals) Lab Preceptor

2010-2011	Anatomy and Physiology: CD-552 Speech and Language Pathology students	MGH-IHP (Institute of Health Professionals) Lab Preceptor
2011	Anatomy of Speech and Hearing: HST-718	Harvard-MIT Health Sciences and Technology Lab Preceptor
2012	The Human Body Course: IN753.0 1 st year medical students	Harvard Medical School
2012, 2013, 2014	Physical Diagnosis: IN761.S Patient-Doctor II 2 nd year medical students	Harvard Medical School Surgical Preceptor for physical exam
2014, 2015	Intro to the Profession: IN761.3 Patient-Doctor II 2 nd year medical students	Harvard Medical School Surgical Preceptor for introduction to clinical surgery and operating room
2015	Anatomy of Speech and Hearing: SHBT203	Institute of Health Professionals; Lab Preceptor

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

Teaching prior to Harvard appointment		
2009-2010	Temporal Bone Anatomy Lab Jr. Otolaryngology Residents	Case Western Reserve University Hospitals dissection and didactic teaching
2009-2010	Chief Resident	Case Western Reserve University Hospitals Clinical and didactic teaching,
Teaching during Harvard appointment		
2012-present	Evening Clinical Rounds—Case Discussions in Laryngology Clinical & Research Fellows	MGH—Center for Laryngeal Surgery & Voice Rehabilitation

Clinical Supervisory and Training Responsibilities

Prior to Harvard Appointment	
2010	Ambulatory otolaryngology clinic Otolaryngology resident supervision Case Western Reserve University
2010	Operating room teaching/supervision Otolaryngology residents MetroHealth/Case Western Reserve University
During Harvard Appointment	
2012–2016	Clinic and operating-room laryngology Laryngeal Surgery Fellows Massachusetts General Hospital

Formally Supervised Trainees

Laryngology and Laryngeal Surgery Post-Residency Fellowship Program (HMS)

(I provided direct 1:1 supervision in OR, clinic; teaching in rounds and inpatient consults)

2012-2013	John Paul Gniady, MD / Private Practice, Sarasota, Florida Richard Vivero, MD / Private Practice, Miami, Florida
2013- 2014	Tiffany Hron, MD/ Private Practice, Brockton, MA Noah Parker, MD/ Private Practice, Indianapolis, Indiana Mark Weidenbecher, MD/ Assistant Professor, CWRU Medical Center Cleveland, Ohio
2014-2015	Mursalin Anis, MD, PhD/ Private Practice, New Jersey Anne Hseu, MD/ Instructor in Otolaryngology, Boston Children's Hospital, Boston, MA
2015-2016	Semirra Bayan, MD; Assistant Professor, University of Chicago Paul Kwak, MD; Assistant Professor, New York University

Interventional Pulmonology Fellowship Program (MGH-BWH Combined Program)

(I provided direct 1:1 teaching and supervision in outpatient clinical setting for 1-week rotation of Interventional Pulmonary Fellow with me specifically to learn about laryngeal anatomy and surgery as it applies to their specialty)

- 2013-2014 Eugene Shostak, MD/ Assistant Professor; Cornell Weill
New York, NY
- 2014-2015 Scott Oh, DO/ Assistant Professor of Medicine; UCLA
Los Angeles, CA
- 2015-2016 Christopher Manley, MD/ Director of Interventional Pulmonology
Fox Chase Cancer Center, Philadelphia PA

Endocrine Surgery Fellowship Program (MGH)

(provided direct 1:1 teaching and supervision in outpatient clinical setting for 1-week rotation of Endocrine Surgery Fellow with me specifically to learn about laryngeal anatomy and surgery as it applies to endocrine surgery specialty.)

- 2014-2015 Tammy Holm, MD, PhD / Staff Surgeon; Newton-Wellesley
Hospital; Newton, Massachusetts
- 2015-2016 Abbey Fingeret, MD; Endocrine Surgeon; Nebraska Medical Center
Omaha, Nebraska

Honors and Special Awards:

Cum Laude Graduate	University of California, Los Angeles
Honors Thesis in European Studies Recipient	
Department of Endocrinology Achievement Award	Drexel University College of Medicine
Otolaryngology Research Competition, 2 nd place	University of Pittsburgh
AAO-HNS Resident Leadership Grant to attend the 2007 Joint Surgical Advocacy Conference (JSAC); Washington, DC	American Academy Otolaryngology- Head & Neck Surgery
Temporal Anatomy Course Dissection Grant Recipient	Anspach
Partners in Excellence Award Recipient	Massachusetts General Hospital
The One Hundred Award Nominee	Massachusetts General Hospital
McGovern Award for Clinical Excellence Nominee	Massachusetts General Hospital

Research Grants and Fellowships Received:

- 2016- present Anti-PD-1 Therapy for HPV-Associated Recurrent Respiratory Papilloma Patients with Laryngeal, Tracheal and/or Pulmonary Involvement
Funding: Merck (PI—Sara I. Pai, MD PhD)
Co-Investigator
This is a phase II study to look at the efficacy of anti-PD-1 therapy in patients with advanced RRP in order to support treatment with systemic immunotherapy so as to minimize or eliminate need for multiple surgical procedures.
- 2010-2012 Bevacizumab (Avastin) trial for treatment of recurrent respiratory papillomatosis.
Funding: Voice Health Institute (PI—Steven Zeitels MD)
Co-Investigator/Project Organizer
The purpose of this prospective open-label FDA-approved trial study was to evaluate the effects of antiangiogenic factor as an adjunct treatment after photoangiolytic treatment in patients with bilateral recurrent respiratory papillomatosis (RRP) of the vocal folds.
- 2010-2012 Laryngeal tissue augmentation in a Guinea Pig Model.
Unfunded; (PI—Steven Zeitels MD).
Co-Investigator
The objective of this project is to obtain pilot data for tissue response testing of a

- new laryngeal augmentation material made of polyethylene glycol (PEG) in a guinea pig model.
- 2010-2011 Aortic Homograft Reconstruction of Partial Laryngectomy defects
Unfunded; (PI—Steven Zeitels MD).
Co-Investigator
The objective of this project is to assess a new method of reconstructing defects of the larynx after partial laryngectomy and/or pharyngeal surgical defects in the head and neck.
- 2012 Effect of Mandibular Tori on Glottic Exposure During Suspension Microlaryngoscopy.
Unfunded; (PI—James Burns MD).
Co-Investigator
This project consists of exploring the nuances of suspension microlaryngoscopy as it pertains to exposure of the larynx in patients with mandibular tori in a skull-based model.
- 2007-2008 Nanophase composite bone substitute.
Funding: Department of Defense (PI—Jonathan Baskin, MD)
Co-Investigator
The primary aim of this project is to create a composite bone substitute using nanophase particles that allow weight bearing pressures to be applied to the bone, such as for mandibular reconstruction in facial plastics.

Lectures/Presentations:

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

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|------------|---|---|
| 2012 | Aortic Homograft Reconstruction of Laryngeal Defects
Massachusetts General Hospital | Ellison 19 Nursing Staff
In-Service Presentation |
| 2013, 2014 | Office-based Laryngeal Surgery: Injection and Laser
Techniques
Massachusetts General Hospital | Lecturer and Panelist for CME
course held at Center for Laryngeal
Surgery |
| 2016 | Voice in the Pediatric Population: From Nodules to
Papillomatosis
Bakersfield Memorial Hospital | Lecturer for CME course
Cedars Sinai Pediatrics Update |

Local Invited Presentations

No presentations below were sponsored by outside entities

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| 2006 | Controversies in management of OSA
Grand Rounds, University Hospitals Cleveland |
| 2006 | Development of a Nano-Composite as a Biomimetic Bone Substitute Material: A Biocompatibility
Study Using the Rat Subdermal Model
CWRU Department of Orthopaedics Research conference; Cleveland, Ohio |
| 2006 | Development of a Nano-Composite as a Biomimetic Bone Substitute Material: A Biocompatibility
Study Using the Rat Subdermal Model
CWRU Otolaryngology Annual Research Day; Cleveland, Ohio |
| 2007 | Cleft Lip/Cleft Palate Repair
Grand Rounds, University Hospitals Cleveland |
| 2007 | Microsia/Atresia Repair
Grand Rounds, University Hospitals Cleveland |
| 2008 | Management of the N0 Neck
Grand Rounds, University Hospitals Cleveland |
| 2013 | Panel discussant for cases regarding involvement of laryngeal nerve injuries
MGH Cancer Center teleconference with Seoul National University Hospital |
| 2015 | Pathway and Experience in Surgery
Invited Guest Speaker, Harvard University Undergraduate Future Surgeons Club |

Report of Regional, National and International Invited Teaching and Presentations

No presentations below were sponsored by outside entities.

Invited Presentations and Courses

Regional

- 2007 Development of a Nano-Composite as a Biomimetic Bone Substitute Material: A Biocompatibility Study Using the Rat Subdermal Model
University of Pittsburgh Annual Alumni Research Day Tri-State Competition
- 2012 Innovations in Laryngeal Surgery
Invited Grand Rounds Presentation to Tufts Department of Otolaryngology
- 2015 Scary Cases in Otolaryngology
Invited Presenter; Massachusetts Medical Society, Waltham, MA

National

- 2007 Urticaria and RAST testing
American Academy of Otolaryngic Allergy meeting; Washington DC
- 2011 Salvage Endoscopic Angiolytic KTP Laser Treatment of Glottic Cancer after Failed Radiotherapy
American Laryngological, Rhinological, and Otological Society; San Diego, CA
- 2013 Bedside Injection Medialization Laryngoplasty in the Acute Care Setting
American Laryngological Association at Combined Otolaryngology Spring Meeting; Orlando, Florida
- 2013 Bevacizumab (Avastin) and Office-Based KTP Angiolytic Laser treatment of Recurrent Respiratory Papillomatosis
Invited Grand Rounds Presentation to Johns Hopkins/GBMC Department of Otolaryngology; Baltimore, Maryland
- 2014 The Art of Laryngeal Surgery and Office-Based Treatment of Epithelial Diseases
Visiting Professor for Lecture at Case Western Reserve University Dept of Otolaryngology/University Hospitals of Cleveland; Cleveland, Ohio
- 2014 Framework Surgery of the Larynx
Visiting Professor for Cadaver Lab at Case Western Reserve University Dept of Otolaryngology/University Hospitals of Cleveland; Cleveland, Ohio
- 2014 Voice Disorders Conference
Invited Guest Panelist; MetroHealth Medical Center; Cleveland, Ohio

International

- 2013 10th Pan-European Voice Conference/ Invited Speaker
Recurrent Respiratory Papillomatosis; 1 lecture and panel discussion
Prague, Czech Republic
- 2015 30th International Papillomavirus Conference & Clinical and Public Health Workshops Rationale for Anti-PD-1 Therapy for HPV-associated Recurrent Respiratory Papilloma Patients with Laryngeal, Tracheal and/or Pulmonary Involvement; Lisbon, Portugal

Report of Education of Patients and Service to the Community

No activities or educational materials below were sponsored by outside entities.

Activities

- 2012, 2013, 2014, 2015 Vocal Health Seminar – Laryngology for Singers / Invited Guest Speaker
The Boston Conservatory of Music, Professional Pedagogy Workshop, Boston, MA
- 2012, 2013, 2014, 2015 Laryngology for Singers: Medical and Surgical Aspects of Care / Invited Speaker
Vocal Methods and Pedagogy Class, Boston Conservatory of Music, Boston, MA
- 2012, 2013, 2014, 2015 Stroboscopy workshop – Fundamentals of Vocal Cord Exam / Volunteer Clinician
Boston Conservatory of Music, First-year class, Boston, MA
- 2013, 2014, 2015 Head and Neck Cancer Free-Screening Clinic / Volunteer Clinician
Center for Laryngeal Surgery and Voice Rehabilitation, Boston, MA
- 2013, 2014, 2015 MIT-MGH Physician Shadow Program / Volunteer Clinician mentoring MIT undergraduate students through weekly observership for a semester in clinic and OR

BIBLIOGRAPHY/PUBLICATIONS:

RESEARCH PAPERS (PEER REVIEWED)

1. Wilhelm SM, Prinz RA, **Barbu AM**, Onders RP, Solorzano CC. Analysis of large vs. small pheochromocytomas: operative approaches and patient outcomes. *Surgery*. 2006 Oct; 140(4):553-9; discussion 559-60.
2. Broniatowski M, Broniatowski SG, Hadley AJ, Shah NS, **Barbu AM**, Strohl KP, Tucker HM, Tyler DJ. Improvement of a respiratory compromise thru abductor reinnervation and pacing in a patient with bilateral vocal fold impairment; pacing of the reinnervated larynx can improve respiratory compromise after paralysis. *Laryngoscope*. 2010 Jan; 120(1): 76-83. Presentation COSM 5/2009.
3. Zeitels SM, **Barbu AM**, Landau-Zemer T, Lopez-Guerra G, Burns JA, Friedman AF, Hillman R. Local injection of Bevacizumab (Avastin) and Angiolytic KTP-Laser Treatment of Recurrent Respiratory Papillomatosis of the Vocal Cords: A Prospective Study. *Ann Oto Rhinol Laryngol*. 2011 Oct; 120(10); 627-34.
4. Zeitels SM, Wain JC, **Barbu AM**, Bryson PC, Burns JA. Aortic Homograft Reconstruction of Partial Laryngectomy Defects: A New Technique. *Ann Oto Rhino Laryngol*. 2012 May; 121(5): 301-6.
5. Best SR, Friedman AD, Landau-Zemer T, **Barbu AM**, Burns JA, Hillman R, Halvorsen YD, Freeman M, Zeitels SM. Safety and dosing of Bevacizumab (Avastin) for the treatment of recurrent respiratory papillomatosis. *Ann Oto Rhinol Laryngol*. 2012 Sep;121(9); 587-93.
6. Baskin JZ, Vasanti A, McMasters J, Soenjaya Y, **Barbu AM**, Eppell SJ. Nanophase Bone Substitute In-Vivo Response to Subcutaneous Injection. *J Biomed Mater Res A*. 2012 Sep; 100(9):2462-73.
7. Friedman AD, Kobler JB, Landau-Zemer T, **Barbu AM**, Burns JA. High-force simulated intubation fails to dislocate cricoarytenoid joint in ex-vivo human larynges. *Ann Otol Rhino Laryngol*. 2012 Nov; 121(11):746-53.
8. **Barbu AM**, Burns JA, Landau-Zemer T, Lopez-Guerra G, Zeitels SM. Salvage Endoscopic Angiolytic KTP Laser Treatment of Glottic Cancer after Failed Radiotherapy. *Ann Oto Rhinol Laryngol*. 2013 Apr;122(4):235-9.
9. Best SR, Kobler JB, **Barbu AM**, Lopez-Guerra G, Burns JA. Effect of Mandibular Tori on Glottic Exposure During Suspension Microlaryngoscopy. *Ann Oto Rhino Laryngol*. 2014 Mar.; 123(3):188-94.
10. Parker NP, **Barbu AM**, Hillman RE, Zeitels SM, Burns JA. Revision Transcervical Medialization Laryngoplasty for Unilateral Vocal Fold Paralysis. *Otolaryng Head Neck Surg*. 2015 May 12 pii: 0194599815585091 (Epub ahead of print)
11. Hseu AF, **Barbu AM**. Vocal cord immobility after thyroid surgery—treatment option with office-based injection laryngoplasty. *VideoEndocrinology*. 2015 June; Vol 2. Nr. 2.
12. Van Stan JH, Mehta DD, Zeitels SM, Burns JA, **Barbu AM**, Hillman RE. Average ambulatory measures of sound pressure level, fundamental frequency, and vocal dose do not differ between adult females with phonotraumatic lesions and matched control subjects. *Ann Oto Rhinol Laryngol*. 2015 May 29. Pii: 0003489415589363. (Epub ahead of print).
13. **Barbu AM**, Gniady JP, Vivero RJ, Friedman AD, Burns JA. Bedside Injection Medialization *Otolaryng Head Neck Surg*. 2015 Dec; 153(6) 1007-12. *Otolaryng Head Neck Surg*. 2015 Dec; 153(6) 1007-12.
14. Peng S, Mattox A, Best SR, **Barbu AM**, Burns JA, Akpeng B, Jeang J, Yang B, Ishida E, Hung CF, Wu TC, Pai SI. Identification of the murine H-2Db and human HLA-A*0201 MHC class I-restricted HPV6 E7-specific cytotoxic T lymphocyte epitopes. *Cancer Immunol Immunother*. 2016 Jan 13. [Epub ahead of print]

REVIEWS

1. Quereshy FA, Baskin JZ, **Barbu AM**, Zechel MA. Report of a case of cervicothoracic necrotizing fasciitis along with a current review of reported cases. *J Oral Maxillofacial Surgery*. 2009 Feb; 67(2): 419-2.

CHAPTERS

1. Lasers Used in Otolaryngology
Burns JA, **Barbu AM**
In: Handbook of Photomedicine (Chapter 63)
Editors: Michael Hamblin, PhD and Ying-Ying Huang, MD. Publisher: CRC Press; 2013. ASIN: B00FZHVLD8
2. Office Procedures in Laryngology: Office-Based Laryngeal Laser Surgery with Local Anesthesia.
Zeitels SM, Burns JA, **Barbu AM**.
In: Laryngology (Chapter 9)
Editors: Kirtane, de Souza; Volume Editor: Abir K. Bhattacharyya. Publisher: Thieme, India; 2014. Print ISBN 9789382076025 · Online ISBN 9789382076087.
3. Laryngeal Exam Indications and Techniques
Sinclair C, Duke WS, **Barbu AM**, Randolph GW.
In: The Recurrent and Superior Laryngeal Nerves textbook (Chapter 2)
Editor: Greg Randolph, MD. Publisher: Springer Publishing, 2016. Print ISBN 978319277257.