

CURRICULUM VITAE
Andrew James McWhorter M.D.

Director, OLOL & LSU Voice Center
Assistant Professor, Department of Otolaryngology-Head and Neck Surgery
Louisiana State University Health Sciences Center, School of Medicine

Contact Information:

OLOL Voice Center
7777 Hennessy Blvd, Suite 408
Baton Rouge, Louisiana 70808
225-765-5335; Fax 225-765-5339
E-mail: amcwhort@ololrmc.com

533 Bolivar Street, Fifth Floor
New Orleans, Louisiana 70112
504-568-4785; Fax 504-568-4460
E-mail: amcwho1@lsuhsc.edu

Pre-doctoral Education:

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| High School | Wyoming High School, Cincinnati, Ohio 1984-1987 |
| College: | Vanderbilt University, Nashville, TN B.E., Biomedical Engineering 1987-1991 |
| Medical School: | Johns Hopkins University School of Medicine, Baltimore, MD M.D. 1991-1995 |

Post-doctoral Education:

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| Internship: | Johns Hopkins Hospital, Department of Surgery Baltimore, MD 1995-1996 |
| Residency: | Johns Hopkins Hospital Department of Otolaryngology- Head and Neck Surgery Baltimore, MD 1995-2000 |
| Fellowship: | Laryngology and Care of the Professional Voice Department of Otolaryngology- Head and Neck Surgery Vanderbilt University School of Medicine Nashville, TN 2000-2001 |

Faculty Appointments:

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| Instructor | 2000-2001 |
| Department of Otolaryngology- Head and Neck Surgery, Vanderbilt University School of Medicine, Nashville, Tennessee | |

Faculty 2000-2001
Division of Otolaryngology - Head and Neck Surgery,
Department of Veteran's Affairs Medical Center,
Nashville, Tennessee

Assistant Professor 2001-present
Department of Otolaryngology - Head and Neck Surgery
Louisiana State University Health Sciences Center
New Orleans, Louisiana

Surgical Consultant 2001-present
Division of Otolaryngology - Head and Neck Surgery
Department of Veteran's Affairs Medical Center,
New Orleans, Louisiana

Adjunct Faculty, Louisiana State University Department of
Communication Sciences and Disorders
Baton Rouge, Louisiana

Hospital Appointments:

Active Staff, Our Lady of the Lake Regional Medical Center,
Baton Rouge, Louisiana 2005-present

Active Staff, Memorial Medical Center,
New Orleans, Louisiana 2001-2006

Active Staff, Children's Hospital,
New Orleans, Louisiana 2001-present

Active Staff, Medical Center of Louisiana
New Orleans, University Hospital
Baton Rouge, Earl K. Long Hospital
Lafayette, University Medical Center

Society Memberships:

American Academy of Otolaryngology – Head and Neck Surgery
American Head and Neck Society
American Academy of Facial Plastic and Reconstructive Surgery
Crowe Society
Maryland ENT Society
Nashville ENT Society
Greater New Orleans ENT Society
Baton Rouge ENT Society
American Medical Association

Licensure and Certification:

Louisiana License Number 14072R
Tennessee License Number 1856983

Diplomate American Board of Otolaryngology 2001

Awards and Honors:

The Maryland Society of Otolaryngology Head and Neck Surgery,
Hoechst Marion Roussel Basic Science Research Award 1999
William S. Halsted Award, Outstanding Graduate in Surgery
Thomas G. Arnold Prize for BME System Designs and Research
Dean's Award for Outstanding Service
Tau Beta Pi
Varsity Soccer Letterman, Vanderbilt University 1987-1990
Academic All Region, All American Nomination - Soccer
William H. Rowan Scholarship
National Merit Scholarship
Procter and Gamble Honor Scholarship
Eagle Scout

Louisiana State University Committees:

Member, Compliance Committee 2003-2005
Member, Laser Safety Committee 2003-2005

Our Lady of the Lake Regional Medical Center Committees:

Elected Vice Chief of Surgical Services 1/10-1/12
Member, Graduate Medical Education Committee
Member, Continuing Medical Education Committee

Research Investigations and Active IRB protocols:

High speed digital imaging of the larynx with Melda Kunduk PhD, CCC-SLP

The role of transoral laser microsurgery in the treatment of recurrent laryngeal cancer in previously irradiated patients.

Investigation of the affects of vocal pathologies on true vocal fold vibratory characteristics with high speed digital imaging.

Voice outcomes following repeated surgeries for recurrent respiratory papilloma

Comparison of Vocal Fold Vibratory Characteristics Before and After Surgery

Voice Initiation and offset Period investigated by high-speed digital imaging

Demographics of Patients with Voice Disorders

Investigation of Granulation formation after Tracheoesophageal Puncture Placement After Total Laryngectomy.

Effects of Multiple Surgery for Recurrent Respiratory Papilloma on True Vocal Fold Vibratory Characteristics.

Demographics of Patients with dysphagia and compliance for treatment.

Previous studies

Principal investigator in IRB protocol: In-office TNE-TEP for secondary tracheo-esophageal puncture for speech restoration

The AARESS Trial, prospective, randomized, multi-center trial evaluating airway abnormality related endotracheal intubation and continuous aspiration of subglottic secretions.

Participating Investigator in IRB protocol: The effects of menstruation on vocal fold vibratory characteristics examined with high speed digital imaging.

Participating Investigator in IRB protocol: A Tissue Bank for Head and Neck Neoplasms and Gene Therapy Research

Participating Investigator in IRB protocol: A Pilot Study and Feasibility Evaluation of the Interrelationship between Environmental and Host Factors in the Development of Squamous Cell Carcinoma of the Head and Neck

Participating site in international multi-center trial: Evaluation of Ca Hydroxyapatite for injection medialization in true vocal fold paralysis

Translational research collaboration with Mike Hagansee MD, PhD, Division of Infectious Disease: HPV transmission studies in adult-onset recurrent respiratory papilloma (RRP)

Combining p53 gene transfer and DNA damaging agents in squamous cell carcinoma; Department of Head and Neck Surgery MD Anderson Cancer Center.
Preceptor: GL Clayman D.D.S. M.D.

The role of the tensor veli palatini in upper airway pressure flow dynamics; Department of Otolaryngology-Head and Neck Surgery, Johns Hopkins School of Medicine.
Preceptors: Alan Schwartz M.D. and David Eisele M.D.

Identification and isolation of retinal specific zinc finger binding proteins; Howard Hughes Institute, Johns Hopkins School of Medicine.
Preceptor: Jeremy Nathans M.D. Ph.D.

The role of PMN products on endothelial monolayer permeability;
Department of Biomedical Engineering, Vanderbilt University.
Preceptor: F.R. Haselton Ph.D.

Faculty and Teaching Responsibilities:

Department of Otolaryngology-Head and Neck Surgery
Laryngology Resident Curriculum
Head and Neck Tumor Board
Department of Anatomy
Cricothyroidotomy: lecture and hands on 1st year students
Tracheotomy and Cricothyroidotomy: Advanced Anatomy Elective
Department of Communication Disorders
Laryngeal Cancer
Laryngeal Examination
Laryngology Overview
PhD Review Committee Aneesha Virani

Publications:

Woodall JH, McWhorter AJ, Alexander JS, Haselton FR. Human PMN's decrease endothelial monolayer permeability. The FASEB Journal, 5:a1491, 1991.

McWhorter AJ, Rowley JA, Eisele DW, Smith PL, Schwartz AR. The effect of tensor veli palatini stimulation on upper airway patency. Archives of Otolaryngology-Head and Neck Surgery. 125:937-40, 1999.

McWhorter AJ, Limb C, Niparko J: Otologic and Skull Base Emergencies, Eisele DW, McQuone SJ, eds: *Emergencies of the Head and Neck*, St Louis, MO, Mosby-Year Book 2000.

McWhorter AJ. Tracheotomy, Timing and Techniques. Current Opinion in Otolaryngology & Head and Neck Surgery. 11:473-479, 2003

Holsinger FC, McWhorter AJ, Menard M, Garcia D, Laccourreye O. Transoral lateral oropharyngectomy for squamous cell carcinoma of the tonsillar region: I. Technique, complications, and functional results. Arch Otolaryngol Head Neck Surg. 131(7):583-91, 2005.

Bolt J, Vo QN, Kim WJ, McWhorter AJ, Thomson J, Hagensee ME, Friedlander P, Brown KD, Gilbert J. The ATM/p53 pathway is commonly targeted for inactivation in squamous cell carcinoma of the head and neck (SCCHN) by multiple molecular mechanisms. Oral Oncol. 41(10):1013-20, 2005.

McWhorter AJ, Hoffman HT. Transoral laser microsurgery for laryngeal malignancies. *Curr Probl Cancer*. 29(4):180-9, 2005.

Holsinger FC, Laccourreye O, Weinstein GS, Diaz EM Jr, McWhorter AJ. Technical refinements in the supracricoid partial laryngectomy to optimize functional outcomes. *J Am Coll Surg*. 201(5):809-20, 2005.

Kunduk M, Yan Y, McWhorter AJ, Bless D. Investigation of voice initiation and voice offset characteristics with high-speed digital imaging. *Logoped Phoniatr Vocol*.;31(3):139-44, 2006.

Hunt J, McWhorter AJ: Malignant neoplasms of the larynx Albert Merati, Steven Bielamowicz, eds: *Textbook of Laryngology*, San Diego, CA Plural Pub Inc 2007.

Rosen CA, Gartner-Schmidt J, Casiano R, Anderson TD, Johnson F, Reussner L, Remacle M, Sataloff RT, Abitbol J, Shaw G, Archer S, McWhorter A. Vocal fold augmentation with calcium hydroxylapatite (CaHA). *Otolaryngol Head Neck Surg*. 136(2):198-204. 2007.

Yan Y, Luo S, McWhorter A. Virtual laryngoscopy: a noninvasive tool for the assessment of laryngeal tumor extent. *Laryngoscope*. 117(6):1026-30, 2007.

Michael Döllinger PhD, Joerg Lochscheller PhD, Andrew J. McWhorter MD Melda Kunduk PhD, Variability of normal vocal fold dynamics for different vocal loading investigated by Phonovibrograms. *J Voice*. 2008 Feb 28. [Epub ahead of print].

Lohscheller J, Doellinger M, McWhorter A, Kunduk M. Preliminary study on the quantitative analysis of vocal loading effects on vocal fold dynamics using Phonovibrograms. *Ann Otol Rhin Laryngol*. 117(7):484-93, 2008.

Holsinger FC, Howard NS, McWhorter A: Practical tips for laser resection of laryngeal cancer, Cerner CR, ed: *Pearls and Pitfalls in Head and Neck Surgery: Practical tips to Minimize Complications*. Basel, Switzerland, S Karger AG 2008.

Rabalais AG, Walvekar R, Nuss D, McWhorter A, Wood C, Fields R, Mercante DE, Pou AM. Positron emission tomography-computed tomography surveillance for the node-positive neck after chemoradiotherapy. *Laryngoscope*. 2009 Jun;119(6):1120-4.

Holsinger FC, Nussenbaum B, Nakayama M, Saraiya S, Sewnaik A, Ark N, Ferris RL, Tufano RP, McWhorter AJ. Current concepts and new horizons in conservation laryngeal surgery: An important part of multidisciplinary care. *Head Neck*. 2009 Aug 11. [Epub ahead of print]

Kunduk M, McWhorter AJ. True vocal fold nodules: the role of differential diagnosis. *Curr Opin Otolaryngol Head Neck Surg*. 2009 Dec;17(6):449-52.

LeBert B, McWhorter AJ, Kunduk M, Walvekar RR, Lewin JS, Hutcheson KA, Barringer DA, Hessel AC, Holsinger FC. Secondary tracheoesophageal puncture with in-office transnasal esophagoscopy. Arch Otolaryngol Head Neck Surg. 2009 Dec;135(12):1190-4.

Durel J., J Gaudet J., Kunduk M., McWhorter AJ. Transoral Laser Microsurgery for Malignancies of the Upper Aerodigestive Tract. ORL Clinics International Journal (in press).

Kunduk M, Doellinger M, McWhorter AJ, Lohscheller J. Assessment of the variability of vocal fold dynamics within and between recordings with high-speed imaging and by Phonovibrograms. Laryngoscope (in press)

Submitted or under revision

Doellinger M., Lohscheller, J McWhorter AJ, Kunduk M. SVM classification of nine different phonatory tasks revealed by PVG analysis and acoustic perturbation measurements.

Kunduk M., McWhorter AJ., Beahm D., Damrose E., Yan Y. Comparative, Quantitative Analysis of Vocal Fold Vibrations Using Laryngeal Videostroboscopy and High-speed Videoendoscopy.

Presentations and Posters:

McWhorter AJ, Liu TJ, Clayman GL. Combination p53 gene therapy and DNA damaging agents in head and neck squamous cell cancer. Presentation Maryland Society of Otolaryngology Head and Neck Surgery Resident's Forum 1999.

McWhorter AJ, Sicard M, Holton P, Wang M, Liu TJ, Clayman GL. Combining DNA damaging agents and gene transfer in head and neck squamous cell carcinoma. Poster presentation American Society of Head and Neck Surgery Meeting West Palm Beach, Florida 1998.

Hall CA, McWhorter AJ. A Rare Manifestation of Ramsay Hunt Syndrome. Poster Presentation, North American Skull Base Society Meeting New Orleans 2004.

Hunt J, Friedlander P, Dort J, McWhorter AJ. First Bite Syndrome Treated with Gabapentin. Poster Presentation, North American Skull Base Society Meeting New Orleans 2004.

Jill Gilbert MD, Paul Friedlander MD, Andrew J. McWhorter MD, Kevin Brown. An Evaluation of Genes that Regulate Genomic Instability in Squamous cell Carcinoma of the Head and Neck. International Head and Neck Society Meeting Washington D.C. 2004.

Christopher Holsinger, M.D. Andrew J. McWhorter, M.D. Madeleine Ménard, M.D., Dominique Garcia, Carlos Olachea M.D., Ollivier Laccourreye, M.D. Transoral lateral oropharyngectomy for selected invasive squamous cell carcinoma of the tonsillar fossa, Part I: International Head and Neck Society Meeting Washington D.C. 2004.

Melda Kunduk PhD, Andrew J. McWhorter MD, Yuling Yan PhD. High speed digital imaging, clinical and research applications. UCSF Voice Conference, San Francisco 2004.

Melda Kunduk PhD, Yuling Yan PhD, Andrew J. McWhorter MD, Diane Bless PhD. Investigation of voice initiation and voice offset characteristics with high speed digital imaging. Pan European Voice Conference, London, England 2005.

Jacques Gaudet, Melda Kunduk, Andrew J. McWhorter. The role transoral laser microsurgery in the treatment of recurrent laryngeal cancer in previously irradiated patients. American Laryngologic Association Annual Meeting San Diego 2007.

Amy Bonnet MS, Melda Kunduk PhD , Andrew J. McWhorter MD, Yuling Yan PhD. Effects of menstruation on vocal fold vibratory characteristics investigated by the high-speed digital imaging. Voice Foundation Annual Meeting Philadelphia 2007.

Melda Kunduk PhD , Andrew J. McWhorter MD, Yuling Yan PhD. Comparison of high speed digital imaging technique with videostroboscopy. Voice Foundation Annual Meeting Philadelphia 2007.

Michael Döllinger PhD, Joerg Lochscheller PhD, Andrew J. McWhorter MD Melda Kunduk PhD, Effects of vocal loading investigated by Phonovibrogram. Voice Foundation Annual Meeting Philadelphia 2007.

Melda Kunduk PhD , Andrew J. McWhorter MD, Edward Damrose MD, Yuling Yan PhD. Vocal Tremor, Parkinson's and Spasmodic Dysphonia Investigated by High-speed Imaging and Analysis. Voice Foundation Annual Meeting Philadelphia 2007.

Handby-Skinner D, Kunduk M, McWhorter A, Endoscopic repair of Pharyngocutaneous Fistula: A Novel Approach. American Broncho-Esophagologic Association 2008 Annual Meeting Orlando 2008

Endoscopic Repair of Pharyngocutaneous Fistula: a Novel Approach Duncan F. Hanby MD, Melda Kunduk Ph.D Andrew J. McWhorter MD American Bronchoesophagology Meeting Orlando, FL 2008 3rd place

Kunduk M, Lohscheller J, McWhorter AJ, Döllinger. M. Effects of pitch and intensity variations on normal vocal fold dynamics detected by PVG analysis. UCSF, Voice Conference. October 16-18, 2008.

Virani A, Kunduk M, McWhorter AJ. Investigating Voice Outcomes following Repeated Surgeries for Recurrent Respiratory Papillomatosis. American Speech-Language and Hearing Association Convention, Chicago, November 20-22, 2008.

Hanby D, McWhorter AJ, Nuss DW, Walvekar RR, Non-sinonasal neuroendocrine carcinoma of the head neck - case series and review of literature. American Head and Neck Society Annual Meeting Combined Otolaryngology Society Meeting. Phoenix Arizona May 2009.

LeBert B, McWhorter AJ, Kunduk M, Walvekar RR, Lewin JS, Hutcheson KA, Barringer DA, Hessel AC, Holsinger FC. Office-based tracheoesophageal puncture with transnasal esophagoscopy in total laryngectomy patients with or without free-flap reconstruction American Head and Neck Society Annual Meeting Combined Otolaryngology Society Meeting. Phoenix, Arizona May 2009.

Kunduk M, Doellinger M, McWhorter AJ, Lohscheller J. Assessment of the variability of vocal fold dynamics within and between recordings with high-speed imaging and by Phonovibrograms. American Laryngologic Association Combined Otolaryngology Society Meeting. Phoenix, Arizona May 2009.

Hoarseness: Live Demonstration of Voice Evaluation: What, How, & Why? Rosen C, Sulica L, Gartner Schmidt J, McWhorter AJ, Branski B. ASHA Convention New Orleans, LA. November 21, 2009

Virani A, McWhorter AJ, Kunduk M. Dysphagia: Patient Demographics, Frequent Causes, & Swallowing Outcomes. ASHA Convention New Orleans, LA. November 21, 2009

Virani A, McWhorter AJ, Lalonde M, Kunduk M Dysphonia: Patient Demographics, Frequent Causes, & Therapy Outcomes ASHA Convention New Orleans, LA. November 21, 2009

Electronic Publications:

McWhorter AJ. Laryngology Office Visit, Voiceproblems.org 2001

McWhorter AJ. Benign Vocal Fold Lesions, NROSC Module, American Academy of Otolaryngology- Head and Neck Surgery 2002

Web and Broadcast Presentations:

Kunduk M, McWhorter AJ. *Hoarseness*. TigerCare August 24, 2004

McWhorter AJ, *Transoral Laser Microsurgery, Endoscopic Partial Laryngectomy*. OR Live, May 10, 2007

McWhorter AJ. Webinar: Endoscopic Management of Laryngeal Cancer.
Lumenis March 3, 2009

Invited Presentations:

Advances in Laryngology, Baton Rouge ENT Society. Baton Rouge, LA
2001

Management of Vocal Cord Paralysis, Goettingen, Germany 2002

Updates in Laryngology, Lafayette ENT Society, Lafayette, LA 2002

Updates in Laryngology, Mobile ENT Society, Mobile, AL 2004

Transnasal Esophagoscopy Clinical Applications, GBMC Healthcare and
The Milton J. Dance Jr. Head and Neck Rehabilitation Center, 7th Annual
Conference on Head and Neck Rehabilitation: New Perspectives of Care,
Baltimore, MD 2004

Transnasal Esophagoscopy in Head and Neck Cancer, MD Anderson
Cancer Center, Department of Head and Neck Oncology. Houston, TX
2005

Evaluation and surgical management of voice disorders. Baton Rouge
Speech Pathology Association. February 2006.

Transnasal Esophagocopy Clinical Applications, Baton Rouge ENT
Society, Lafayette LA 2006

Transnasal esophagoscopy: clinical applications. World Voice
Conference, Istanbul Turkey June 2006

Medialization thyroplasty and arytenoid adduction: Hands on
demonstration of technique. World Voice Conference, Istanbul Turkey.
June 2006.

Laryngology. Baton Rouge Coder's Association. August 21, 2006

Benign Vocal Fold Lesions, Panel Discussion
Laryngopharyngeal Reflux, Panel Discussion
Sisson Conference, Vail Colorado 2008

Endoscopic Management of Laryngeal Carcinoma.AAO-HNS 2008
Lumenis Breakfast Symposium. Orlando, Florida. September 22, 2008

Transnasal Esophagoscopy
Phonosurgery for benign vocal fold lesions
Phoniatriy Panel:Vocal fold polyps
Management of vocal fold motion impairment
In-office laryngeal procedures

High-speed digital imaging: current status
International Invited Faculty, 30th Turkish National Congress of
Otorhinolaryngology Head and Neck Surgery & 4 th Joint Meeting of
Turkish – American Otorhinolaryngology Head and Neck Surgery,
Anatalya, Turkey October 2008

Endoscopic anatomy, from the inside out. University of Maryland
Department of Otolaryngology-Head and Neck Surgery.
Grand Rounds Baltimore, Maryland November 21, 2008.

Endoscopic management of laryngeal carcinoma. University of Maryland
Department of Otolaryngology-Head and Neck Surgery.
Tumor Board Baltimore, Maryland November 21, 2008.

Endoscopic management of laryngeal carcinoma. 2009 Lumenis National
Sales Meeting. San Jose, California January 29, 2009.

Benign Vocal Fold Lesions, Panel Discussion
Sisson Conference, Vail Colorado 2009

McWhorter A, Paul Castellanos P, Steiner W. 30 Years of Transoral
Laser Microsurgery for the Treatment of Cancer: Update and Future
Lumenis Breakfast Symposium. Combined Otolaryngology Society
Meeting. Phoenix, Arizona May 27-3, 2009

Co-Moderator management of voice and swallowing dysfunction
following surgery of the cranial base. North American Skull Base
Society Annual Meeting. New Orleans October 2009

Panelist: Glottic Malignancies. Advances and Controversies in
Laryngology Meeting Chicago, IL. November 14-15, 2009

Teaching Courses:

Faculty Instructor, Phonosurgery Tutorial & Hands-on Workshop,
Vanderbilt University School of Medicine, The Vanderbilt Bill
Wilkerson Center for Otolaryngology and Communication
Sciences, May 18-19, 2001.

Director, Transnasal Esophagoscopy Course
LSU Health Sciences Center, Department of Otolaryngology –
Head and Neck Surgery and Olympus University,
New York, NY. November 10, 2007.
New Orleans, LA. April 16, 2005.
New Orleans, LA. March 11, 2005
New Orleans, LA. October 7, 2004.
New Orleans, LA. June 27, 2004.

Director, Transoral Laser Microsurgery: Endoscopic Management of
Head and Neck Cancer. Medical University of South Carolina,
Department of Otolaryngology-Head and Neck Surgery,
November 3-4, 2005.

Guest Instructor, Transoral laser microsurgery Cadaver Dissection Lab.
University of Maryland Department of Otolaryngology-Head
and Neck Surgery. Baltimore, Maryland November 22, 2008

Grants and Awards:

\$1500 from Faculty Wive's Club for Rehabilitation materials for total laryngectomy patients

Academy Service:

Moderator, Research Session Rhinology and Laryngology, American Academy of Otolaryngology- HNS, New York, NY 2004.

Moderator, Research Session Rhinology and Laryngology, American Academy of Otolaryngology- HNS, Chicago, IL 2008.

American Head and Neck Society Education Committee 2007-2009

Editorial Activities:

Editorial Board, ORL Clinics International Journal

Reviewer, Laryngology topics for The Laryngoscope

Reviewer, Laryngology topics for Otolaryngology Head and Neck Surgery

Reviewer, Laryngology topics for Head and Neck

Reviewer, Laryngology topics for Archives of Otolaryngology-Head and Neck Surgery

Corporate Collaborations:

Luminary (medical advisory board, Lumenis Lasers Inc.

Olympus America

National sales video, transnasal esophagoscopy

Creation of transnasal esophagoscopy training course

Medical advisor, ENT products

International Studies:

Professor Marc Remacle MD PhD, Scanning Lasers in Laryngology, Yvoir Belgium 12/2002

Professor Wolfgang Steiner MD, Endoscopic Laser Excision of Aerodigestive Tract Cancer, Goettingen, Germany 2/2002

Professor Ollivier Laccourreye MD, Supracricoid laryngectomy, Paris France 12/2003; 4/2004

Community Service

New Orleans Musician Clinic
Friends of City Park