

LEE M. AKST, M.D.

Professional Appointments

- 2006- **Loyola University Medical Center, Department of Otolaryngology-Head and Neck Surgery,**
Chicago, IL
Assistant Professor, Stritch School of Medicine
Director – Section of Laryngology, Loyola Center for Voice and Swallowing Disorders
- 2005-2006 **Massachusetts General Hospital, Center for Laryngeal Surgery and Voice Rehabilitation,**
Boston, MA
Assistant in Surgery, Division of Thoracic Surgery
Instructor, Harvard Medical School

Education and Training

- 2005-2006 **Massachusetts General Hospital, Center for Laryngeal Surgery and Voice Rehabilitation,**
Boston, MA
Fellowship with Dr. Steven Zeitels, completed June 2006
Assistant in Surgery, Division of Thoracic Surgery
Instructor, Harvard Medical School
- 2000-2005 **The Cleveland Clinic Foundation,** Cleveland, OH
Residency in Otolaryngology-Head and Neck Surgery, completed June 2005
Chief Resident, July 2004-June 2005
- 1999-2000 **The Cleveland Clinic Foundation,** Cleveland, OH
Internship in General Surgery, completed June 2000
- 1995-1999 **Yale University School of Medicine,** New Haven, CT
M.D., Thesis: *Endothelial Activation and Vascular Remodeling*, May 1999
- 1991-1995 **Yale University,** New Haven, CT
B.A., Political Science with Concentration in International Relations, Distinction in the Major,
Summa Cum Laude, May 1995

Licensure

Massachusetts
Ohio
Illinois

Certification

Diplomate, American Board of Otolaryngology

Honors, Awards, and Grants

- 2006-2007 **Leischner Insitute Scholar Program,** Stritch School of Medicine, Loyola University Medical
Center
- 2003 **Northeastern Ohio Otolaryngology-Head and Neck Surgery Society,** Resident Research
Competition, 2nd place award
- 2002 **Shiley-Nellcor Resident Research Award** from the American Academy of Otolaryngology-
Head and Neck Surgery, for the most highly rated CORE grant application,
“T-lymphocyte Response to HER2neu in Head and Neck Tumors”

5. Eliachar I, **Akst LM**, Eliashar R. Unaided Speech in Tube-free Tracheostomy: The Supplementary Sling Procedure. *Otolaryngology-Head and Neck Surgery* 127:213-220, 2002.
6. Hoffman GS, Thomas-Golbanov CK, Chan J, **Akst LM**, Eliachar I. Treatment of Subglottic Stenosis, due to Wegener's Granulomatosis, with Intralesional Corticosteroids and Dilation. *Journal of Rheumatology* 30(5):1017-1021, 2003.
7. **Akst LM**, Lee W, Discolo C, Knott D, Younes A, Koltai PJ. A Stepped Dose Protocol for Intralesional Cidofovir in Pediatric Recurrent Respiratory Papillomatosis. *Archives of Otolaryngology-Head and Neck Surgery* 129:841-846, 2003.
8. **Akst LM**, Thompson DL. Laryngeal Amyloidosis: Pathologic Review. *Ear, Nose, and Throat Journal* 82:844-845, 2003.
9. **Akst LM**, Siemionow M, Dan O, Izycki D, Strome M. Induction of Tolerance in a Rat Model of Laryngeal Transplantation. *Transplantation* 76(12):1763-1766, 2003.
10. **Akst LM**, Dipasquale B, Berho M, Greene D, Roberts J. Dirofilarial Infection Presenting as a Facial Mass: Case Report of an Emerging Zoonosis. *American Journal of Otolaryngology* 25(2):134-137, 2004.
11. **Akst LM**, Discolo C, Dipasquale B, Greene D, Roberts J. Metastatic Seminoma with Cervical Lymphadenopathy as the Initial Manifestation. *Ear, Nose and Throat Journal* 83(5):356-359, 2004.
12. Chan J, **Akst LM**, Eliachar I. The Roles of the Anterior Tonsillar Pillars and Prior Tonsillectomy on Sleep Disordered Breathing. *Ear, Nose and Throat Journal* 83(6):408-413, 2004.
13. **Akst LM**, Eliachar I. Long-Term Tube-Free (Permanent) Tracheostomy in Morbidly Obese Patients. Letter to the Editor. *Laryngoscope* 114(8):1511-1512, 2004.
14. **Akst LM**, Chan J, Elson P, Saxton J, Adelstein D, Strome M. Functional Outcomes following Chemoradiotherapy for Head and Neck Cancer. *Otolaryngology-Head and Neck Surgery* 131(6):950-957, 2004.
15. **Akst LM**, Albani BJ, Strome M. Subacute Infratemporal Fossa Cellulitis with Subsequent Abscess Formation in an Immunocompromised Patient. *American Journal of Otolaryngology* 26(1):35-38, 2005.
16. Discolo CM, **Akst LM**, Schlossberg L, Greene D. Anterior Cranial Fossa Glioblastoma with Sleep Apnea as the Initial Manifestation. *American Journal of Otolaryngology* 26(5):327-329, 2005.
17. **Akst LM**, Weber PC. Facial Nerve Management in Cochlear Implant Surgery. *Operative Techniques in Otolaryngology-Head and Neck Surgery* 16(2):78-81, 2005.
18. Milstein CF, **Akst LM**, Hicks DM, Abelson TI, Strome M. Long-term Effects of Micronized Alloderm Injection for Unilateral Vocal Fold Paralysis. *Laryngoscope* 115(9):1691-1696, 2005.
19. **Akst LM**, Dan O, Strome M. The Effect of Donor-Specific Transfusion upon Rejection in a Rat Model of Laryngeal Transplantation. *American Journal of Otolaryngology* 27(1):13-17, 2006.
20. Shipchandler TZ, **Akst LM**, Greene D, Henry M. Spindle Cell Lipoma: Pathology Quiz. *Archives of Otolaryngology-Head and Neck Surgery* 132:221-223, 2006.

21. Lott D, **Akst LM**, Greene D, Roberts J. T-cell Primary Cutaneous Anaplastic Large Cell Lymphoma Mimicking Appearance of Large Basal Cell Carcinoma: Clinical Photograph. *Otolaryngology-Head and Neck Surgery* 135:170-171, 2006.
22. Zeitels SM, **Akst LM**, Burns JA, Hillman RE, Broadhurst MS, Anderson RR. Pulsed Angiolytic Laser Treatment of Ectasias and Varices in Singers. *Annals of Otolaryngology, Rhinology, and Laryngology* 115:571-580, 2006.
23. Lee WT, **Akst LM**, Adelstein DJ, Saxton JP, Wood BG, Strome M, Esclamado RM. Risk Factors for Hypopharyngeal/Upper Esophageal Stricture Formation after Concurrent Chemoradiation. *Head and Neck* 28:808-812, 2006.
24. Zeitels SM, **Akst LM**, Burns JA, Hillman RE, Broadhurst MS, Anderson RR. Office-Based 532nm Pulsed-KTP Laser Treatment of Glottal Papillomatosis and Dysplasia. *Annals of Otolaryngology, Rhinology, and Laryngology* 115:679-685, 2006
25. Kobler JB, Rosen DI, Burns JA, **Akst LM**, Broadhurst MS, Zeitels SM, Hillman RE. Validation of a Flexible Laryngeal Endoscope with Calibrated Sizing Function by Comparison to Intraoperative Measurements. *Annals of Otolaryngology, Rhinology, and Laryngology* 115:733-740, 2006.
26. Chung BJ, **Akst LM**, Koltai PJ. 3.5 Year Follow-up of Intralesional Cidofovir Protocol for Pediatric Recurrent Respiratory Papillomatosis. *International Journal of Pediatric Otorhinolaryngology* 70:1911-1917, 2006
27. Zeitels SM, Burns JA, **Akst LM**, Hillman RE, Broadhurst MS, Anderson RR. Office-based and Microlaryngeal Applications of a Fiber-based Thulium Laser. *Annals of Otolaryngology, Rhinology, and Laryngology*, submitted.
28. Broadhurst MS, **Akst LM**, Burns JA, Kobler JB, Heaton JT, Anderson RR, Zeitels SM. Effects of 532nm Pulsed-KTP Laser Parameters on Vessel Ablation in the Avian Chorioallantoic Membrane: Implications for Vocal-Fold Mucosa. *Laryngoscope*, submitted.

Book Chapters

1. **Akst LM**. "Parathyroidectomy." *The Cleveland Clinic Guide to Surgical Patient Management*, ed. J. Ponsky. St. Louis: Mosby, 2002; 197-204.
2. **Akst LM**. "Melanoma." *The Cleveland Clinic Guide to Surgical Patient Management*, ed. J. Ponsky. St. Louis: Mosby, 2002; 269-278.
3. **Akst LM**. "Tracheotomy." *The Cleveland Clinic Guide to Surgical Patient Management*, ed. J. Ponsky. St. Louis: Mosby, 2002; 331-336.
4. **Akst LM**, Strome M. "Laser Surgery for Head and Neck Cancer." *Squamous Cell Head and Neck Cancer: Recent Clinical Progress and Prospects for the Future*, ed. D. Adelstein. Totowa, New Jersey: Humana Press, 2005; 43-58.
5. **Akst LM**, Lorenz R, Eliachar I. "Tracheostomy for Obstructive Sleep Apnea." *Atlas of Sleep Apnea and Snoring*, ed. M. Friedman, submitted.

6. **Akst LM**, Zeitels SM. "History of Laryngology." Textbook of Laryngology, eds. A. Merati and S. Bielamowicz. San Diego: Plural Publishing, 2006.
7. **Akst LM**, Broadhurst MS, Zeitels SM. "History of Tracheotomy." Tracheotomy, eds. E. Myers, J. Johnson, T. Murry. Clifton Park, New York: Thomson Delmar Learning, submitted.

Oral Presentations

1. **Akst LM**, Smolinski SE, Maragh MR, Salami S, Gokur O, Vinneau L, Friedman AF. Different Patterns of Cadaver heart Utilization in Two Similar OPO's. International Transplant Congress, July 1997.
2. **Akst LM**, VanMeter G, Inaba L, Conte MS. Adhesion Molecule Expression and Vascular Remodeling: Effects of Endothelial Cell Seeding. Association for Academic Surgery, November 1997.
3. **Akst LM**, Eliachar I, Eliashar R. Sling Procedure for Unaided Speech in Tube-Free Tracheostomy. American Academy of Otolaryngology-Head and Neck Surgery, September 2001.
4. **Akst LM**, Lee W, Discolo C, Knott D, Younes A, Koltai PJ. A Stepped Dose Protocol for Intralesional Cidofovir in Pediatric Recurrent Respiratory Papillomatosis. American Society of Pediatric Otolaryngology, May 2002; Cleveland Clinic Foundation Otolaryngology Research Day, June 2002.
5. Chan J, **Akst LM**, Eliachar I. The Roles of the Anterior Tonsillar Pillars and Prior Tonsillectomy on Sleep Disordered Breathing. American Academy of Otolaryngology-Head and Neck Surgery, September 2002.
6. Greene D, **Akst LM**. Tongue Base Ablation in Sleep Apnea Surgery: Review of the Literature. Cleveland Clinic Otolaryngology Symposium, April 2003.
7. **Akst LM**, Siemionow M, Dan O, Izycki D, Strome M. Induction of Tolerance in a Rat Model of Laryngeal Transplantation. Northeast Ohio Resident Research Competition, May 2003.
8. **Akst LM**, Weng DE, Shu S, Cohen PA. T-Lymphocyte Culture for Adoptive Immunotherapy of Head and Neck Cancer. Cleveland Clinic Foundation Otolaryngology Research Day, June 2003; American Academy of Otolaryngology-Head and Neck Surgery, September 2003.
9. **Akst LM**, Chan J, Elson P, Saxton J, Adelstein D, Strome M. Functional Outcomes following Chemoradiotherapy for Head and Neck Cancer. American Academy of Otolaryngology-Head and Neck Surgery, September 2003; Cleveland Clinic Foundation Otolaryngology Research Day, June 2004.
10. Lee WL, **Akst LM**, Adelstein D, Saxton JP, Wood B, Strome M, Esclamado R. Risk Factors for Stricture Formation with Concurrent Chemoradiation. 6th International Conference on Head and Neck Cancer, August 2004.
11. **Akst LM**, Greene D. Low-temperature Radiofrequency Molecular Disassociation (Coblation®) for Base-of-Tongue Reduction. American Academy of Otolaryngology-Head and Neck Surgery, September 2004; Cleveland Clinic Foundation Otolaryngology Research Day, June 2005.
12. Chung B, **Akst LM**, Koltai P. 24 Month Follow-up of Intralesional Cidofovir Protocol for Pediatric RRP. American Academy of Otolaryngology-Head and Neck Surgery, September 2004.
13. Broadhurst MS, Kobler JB, **Akst LM**, Burns JA, Anderson RR, Zeitels SM. Applications of 532nm pulsed KTP laser in laryngeal surgery. Australian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, March 2006.

14. **Akst LM**, Kobler JB, Burns JA, Broadhurst MS, Anderson RR, Zeitels SM. Soft-tissue Effects of Pulsed-KTP Laser on Excised Calf Vocal Folds. American Society for Laser Medicine and Surgery Annual Meeting, April 2006.
15. Broadhurst MS, Kobler JB, **Akst LM**, Burns JA, Anderson RR, Zeitels SM. Effects of 585nm Pulsed Dye Laser Settings in the Avian Chorioallantoic Membrane: Implications for Vocal-Fold Mucosal Photoangiolytic. American Society for Laser Medicine and Surgery Annual Meeting, April 2006.
16. Burns JA, Kobler JB, **Akst LM**, Broadhurst MS, Anderson RR, Zeitels SM. Thermal Effects of Thulium and Carbon Dioxide Lasers on Excised Calf Vocal Folds. American Society for Laser Medicine and Surgery Annual Meeting, April 2006.
17. Zeitels SM, **Akst LM**, Burns JA, Hillman RE, Broadhurst MS, Anderson RR. Pulsed Angiolytic Laser Treatment of Ectasias and Varices in Singers. American Laryngological Association, May 2006.
18. Kobler JB, Rosen DI, Burns JA, **Akst LM**, Broadhurst MS, Zeitels SM, Hillman RE. Validation of a Flexible Laryngeal Endoscope with Calibrated Sizing Function by Comparison to Intraoperative Measurements. American Laryngological Association, May 2006.
19. Zeitels SM, Burns JA, **Akst LM**, Hillman RE, Broadhurst MS, Anderson RR. Office-based and Microlaryngeal Applications of a Fiber-based Thulium Laser. American Broncho-Esophagological Association, May 2006.
20. Zeitels SM, **Akst LM**, Burns JA, Hillman RE, Broadhurst MS, Anderson RR. Office-Based 532nm Pulsed-KTP Laser Treatment of Glottal Papillomatosis and Dysplasia. American Broncho-Esophagological Association, May 2006.
21. Broadhurst MS, **Akst LM**, Burns JA, Kobler JB, Heaton JT, Anderson RR, Zeitels SM. Effects of 532nm Pulsed-KTP Laser Parameters on Vessel Ablation in the Avian Chorioallantoic Membrane: Implications for Vocal-Fold Mucosa. The Triological Society, May 2006.
22. Lee W, Milstein CF, Hicks DM, Akst LM, Esclamado RM. Results of Ansa to Recurrent Laryngeal Nerve Reinnervation. American Academy of Otolaryngology-Head and Neck Surgery, September 2006.

Poster Presentations

1. Veigl ML, Donover SP, Anderson RD, **Akst L**, Sedwick CE, Sedwick WD. The Effect of IPTG Induction of the *Lac* Operon on the Mutational Specificity of Adriamycin in *E. coli*. Environmental Mutagen Society, April 1994.
2. **Akst LM**, Smolinski SE, Maragh MR, Salami S, Gokur O, Vinneau L, Friedman AF. Different Patterns of Cadaver Heart Utilization in Two Similar OPO's. American Society of Transplant Physicians, May 1997.
3. Chan J, **Akst LM**, Eliachar I. The Role of Mitomycin-C in the Endoscopic Treatment of Subglottic Stenosis. American Academy of Otolaryngology-Head and Neck Surgery, September 2002.
4. **Akst LM**, Siemionow M, Dan O, Izycki D, Strome M. Induction of Tolerance in a Rat Model of Laryngeal Transplantation. Cleveland Clinic and University Hospitals Transplant Research Day, May 2003.

5. **Akst LM**, Dan O, Strome M. The Effect of Donor-Specific Transfusion upon Rejection in a Rat Model of Laryngeal Transplantation. Cleveland Clinic and University Hospitals Transplant Research Day, May 2003; Cleveland Clinic Foundation Research Day, November 2003.
6. Chan J, **Akst LM**, Eliachar I. Topical Mitomycin-C in the Management of Subglottic Stenosis in Wegener's Granulomatosis. The Triological Society, Middle Section Meeting, January 2004. Winner of Resident Research Travel Grant.
7. **Akst LM**, Koch Z, Smith J. Surgical Ciliated Cysts of the Maxilla Following Orthognathic Surgery. The Triological Society, Middle Section Meeting, January 2004.
8. **Akst LM**, Albani BJ, Strome M. Subacute Infratemporal Fossa Cellulitis with Subsequent Abscess Formation in an Immunocompromised Patient. The Triological Society, Middle Section Meeting, January 2004.
9. **Akst LM**, Attree C, Greene D. Low-temperature Radiofrequency Molecular Disassociation (Coblation®) for Base-of-tongue Reduction in Obstructive Sleep Apnea. The Triological Society, Combined Otolaryngology Spring Meetings, May 2004.
10. **Akst LM**, Batra P, Citardi MJ, Lanza DC. Chronic Invasive Fungal Rhinosinusitis in Immunocompetent Patients. American Rhinologic Society Annual Meeting, September 2004.
11. Nunn D, Gaissert HA, **Akst LM**, Zeitels SM. Successful Revision of Layngeal/Tracheal Diversion: Case Study. Dysphagia Research Society Meeting, March 2006; Massachusetts General Hospital Research Day, May 2006.

Activities

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| 2006- | Faculty Preceptor, Patient Centered Medicine Course for 2 nd Year Medical Students, Stritch School of Medicine |
| 2006- | Loyola University Medical Center, Library Liaison from the Department of Otolaryngology—Head and Neck Surgery |
| 2006- | Loyola University Medical Center, Department of Otolaryngology—Head and Neck Surgery, ENT Designs for Website committee |
| 2004-2005 | American Academy of Otolaryngology—Head and Neck Surgery, Section for Residents and Fellows, delegate to the Speech, Voice, and Swallowing Committee |
| 2002-2003 | American Academy of Otolaryngology—Head and Neck Surgery, Section for Residents and Fellows, delegate to the Society of University Otolaryngologists |