

CURRICULUM VITAE

DATE PREPARED: August 29, 2005

PART I: General Information

Name: CHRISTOPHER J HARTNICK

Office Address: Department of Otolaryngology
Massachusetts Eye and Ear Infirmary
Boston, MA 02114 United States

Education:

1989 B.A., Princeton University
1994 M.D., Albert Einstein Col. Of Medicine Of Yeshiva U.
2001 M.S. (Epidemiology), Harvard School Of Public Health

Postdoctoral Training:

1994-1995 Intern in Surgery, Surgery, Montefiore Medical Center
1995-1999 Resident in Otolaryngology, Otolaryngology, Montefiore Medical Center
1999-2001 Fellow in Pediatric Otolaryngology, Pediatric Otolaryngology, Cincinnati Children's Hospital

Licensure and Certification:

1996 New York Registered Physician
2000 American Board of Otolaryngology-Head and Neck Surgery
2001 Massachusetts Registered Physician

Academic Appointments:

2001-2003 Instructor in Otolaryngology and Laryngology, Massachusetts Eye and Ear Infirmary, Boston, MA
2003-2006 Assistant Professor of Otolaryngology and Laryngology, Massachusetts Eye and Ear Infirmary, Boston, MA

Hospital or Affiliated Institution Appointments:

2001- Clinical Attending, Newton-Wellesley Hospital, Newton, MA
2001- Attending in Otolaryngology, Massachusetts Eye and Ear Infirmary, Boston, MA

- 2001- Consultant, Spaulding Rehabilitation Hospital, Boston, MA
- 2001- Clinical Attending, Franciscan's Children's Hospital, Boston, MA
- 2002- Assistant in Otolaryngology, Massachusetts General Hospital, Boston, MA
- 2002- Consultant, Shriner's Burn Institute, Boston, MA

Major Administrative Responsibilities:

- 2004- Co-Director, Pediatric Airway, Voice, and Swallowing Center, MEEI and MGHfC, Massachusetts Eye and Ear Infirmary

Major Committee Assignments:

- 2004- Medical Peer Review Committee, Member, Massachusetts Eye and Ear Infirmary
- 2005- Joint O.R. Committee, Member, Massachusetts Eye and Ear Infirmary
- 2005- Surgicenter Task Force, Member, Massachusetts Eye and Ear Infirmary

Professional Societies:

- 1994- American Medical Association, Member
- 1995- American Academy of Otolaryngology-Head and Neck Surgery, Member
- 2003- Society for Ear, Nose, and Throat Advances in Children, Member
- 2004- American Society of Pediatric Otolaryngology, Member
- 2004- Triological Society, Member
- 2004- American Broncho-Esophagological Society, Member
- 2005- American Academy of Pediatrics, Fellow

Community Service Related to Professional Work:

- 1998 Cleft Lip Surgeon, Catholic University

Editorial Boards:

- 2001- Ad-Hoc Reviewer, Otolaryngology-Head and Neck Surgery
- 2003- Ad-Hoc Reviewer, Laryngoscope
- 2003- Ad-Hoc Reviewer, Annals of Otology, Rhinology, and Laryngology
- 2004- Ad-Hoc Reviewer, International Journal of Pediatric Otolaryngology

Awards and Honors:

- 2001-2002 Charles Ferguson Resident Research Award, Cincinnati Children's Hospital
- 2001 Resident Travel Award, Triological Society, Cincinnati Children's Hospital

Part II: Research, Teaching, and Clinical Contributions

B. Funding Information

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| 2003-2004 | P.I., American Laryngological Voice Research and Educational Foundation, Development and Maturation of the Pediatric Vocal Fold |
| 2003-2004 | P.I., Gyrus, Randomized, Double blind trial comparing post-operative pain following tonsillectomy or Intracapsular tonsillotomy |
| 2005 | Co-P.I., Center for Integration of Medicine and Innovative Technology, Growth Characteristics of Tissue Engineered Cartilage When Used as a Graft Source for Laryngotracheal Reconstruction: A Pilot Study |
| 2005 | P.I., Company, Randomized, Double Blind Study Comparing the Post-Operative Pain after Coblation Tonsillotomy vs. Microdebrider tonsillotomy |
| 2005- | P.I., Company, Randomized, Double Blind Study Comparing Lansoprazole versus Placebo in Treating Chronic Cough in Children |

D. Report of Teaching

1. Local contributions

c. Local Invited Presentations

Grand Rounds

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| 2001 | Management of Foreign Bodies in ENT, Massachusetts College of Pharmacy |
| 2001 | Management of Pediatric Subglottic Stenosis, Massachusetts General Hospital |
| 2002 | Pediatric Stridor, Cambridge Hospital |
| 2002 | Pediatric Voice Disorders, Newton-Wellesley Hospital |
| 2004 | Airway Disorders in the PICU, Massachusetts General Hospital |
| 2005 | Pediatric Paradoxical Vocal Fold Motion, Massachusetts General Hospital |

Seminar

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| 2001 | Congenital Laryngeal Anomalies, Massachusetts Eye and Ear Infirmary |
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- 2003 Pediatric Hoarseness, The New England Otolaryngological Society
- 2003 Pediatric Hoarseness, Massachusetts General Hospital

Voice Disorders Update

- 2005 Pediatric Laryngotracheal Reconstruction, Massachusetts Eye and Ear Infirmery
- 2005 Evaluation of the Child with Hoarseness, Massachusetts Eye and Ear Infirmery

d. Continuing Medical Education Courses

- 2001- Pediatric Otolaryngology Case Panel Discussion
- 2002- Evaluation of the Pediatric Voice
- 2003 Pediatric Voice Disorders: Diagnosis and Management
- 2003- Pediatric Otolaryngology Update
- 2004- Controversies in the Diagnosis and Management of Pediatric Vocal Cord Paralysis
- 2004- Pediatric Voice Disorders: Diagnosis and Management

e. Advisory and Supervisory Responsibilities in Clinical or Laboratory Setting

- 2004- 1 Residents for 420 hrs/year, Research Supervisor, Harvard Medical School

f. Leadership Roles

- 2005- Director of Pediatric Otolaryngology Fellowship, Massachusetts Eye and Ear Infirmery
Responsibility: Overseeing the clinical and research duties for fellows participating in the one year Pediatric Otolaryngology fellowship offered through Massachusetts Eye and ear Infirmery and Harvard Medical School

2. Regional, national, or international contributions

a. Invited Presentations

Invited Lecture

International

- 2001 The Role of Mitomycin-C in Pediatric Airway Surgery, European Society of Pediatric Otolaryngology
- 2002 Laryngomalacia and Tracheomalacia: Evaluation and Management, Chilean Society of Respiratory Physicians
- 2002 Management of Pediatric Subglottic Stenosis, Chilean Society of Respiratory Physicians
- 2004 Pediatric Voice Disorders, University of Lausanne, Switzerland
- 2004 Pediatric Voice Disorders, Society of Ear, Nose, and Throat Disorders in Children

Plenary Presentation

- 1994 Trophic Effect of BDNF and CNTF, Individually and Combined, on 5 day PP Rat Auditory Neurons In Vitro, XXXIst Workshop on Inner Ear Biology

National

- 1994 Use of a Defective Herpes Simplex Virus to Deliver BDNF to Auditory Neurons Promotes Neurite Outgrowth, Annual Meeting of the Society for Neuroscience
- 2000 The Management of Complete (Grade 4) Acquired Laryngotracheal Stenosis in Children, American Broncho-Esophagological Society
- 2000 Pediatric Fiberoptic Evaluation of Swallowing, American Broncho-Esophagological Society
- 2000 Length of Stenting in Single Stage Laryngotracheoplasty with Anterior Costal Cartilage Grafts, American Broncho-Esophagological Society
- 2000 Labyrinthitis Ossificans: The Role of Steroids, American Society of Pediatric Otolaryngology
- 2000 Use of the Microdebrider in Harvesting Fat, American Academy of Otolaryngology-Head and Neck Surgery
- 2000 Open excision of Subglottic Hemangioma to Avoid Tracheotomy, American Academy of Otolaryngology-Head and Neck Surgery

- 2000 A New Technique of Measuring Tracheal pH in Children with tracheotomy Tubes, American Academy of Otolaryngology-Head and Neck Surgery
- 2000 Telephone Evaluation After Tonsillectomy: A Satisfaction Survey, American Academy of Otolaryngology-Head and Neck Surgery
- 2001 Functional Magnetic Resonance Imaging of the Pediatric Swallow, Middle Section - Triological Society
- 2001 Topical Mitomycin-C following Laryngotracheal Reconstruction: Randomized, Double Blind, Placebo Controlled study, American Society of Pediatric Otolaryngology
- 2001 Endoscopic Access to the Infratemporal Fossa and Skull Base: A Cadaveric Study, American Society of Pediatric Otolaryngology
- 2001 Surgery for Pediatric Subglottic Stenosis: Disease Specific Outcomes, American Broncho-Esophagological Society
- 2001 Metanalysis of Surgical Results for Pediatric Vocal Cord Paralysis, American Academy of Otolaryngology-Head and Neck Surgery
- 2001 Final Validation of the Pediatric Tracheostomy Health Status Instrument, American Academy of Otolaryngology-Head and Neck Surgery
- 2002 Surgery for Pediatric Vocal Cord Paralysis: A Retrospective Review, American Broncho-Esophagological Society
- 2002 The Pediatric Voice Outcomes Survey: A Validation Study, American Society of Pediatric Otolaryngology
- 2003 Potential Impact of Palivizumab on Pediatric Laryngotracheal Reconstruction, Society for Ear, Nose, and Throat Advances in Children
- 2003 Cost Benefit Analysis of Coagulation Studies in patients with Post-Tonsillectomy Hemorrhage, The Triological Society
- 2003 Otologic Manifestations of Ectodermal Dysplasia, American Society of Pediatric Otolaryngology
- 2003 Establishing Normative Voice-Related Quality of Life Scores within the Pediatric Otolaryngology Population, American Society of Pediatric Otolaryngology

2003 Determining the Relationship Between Older Children Self-Report and Parent-Proxy Ratings on the Pediatric Voice Outcomes Survey, American Academy of Otolaryngology-Head and Neck Surgery

2004 Initial Report on Trans-Nasal Flexible Endoscopic Digital Stroboscopy, American Society of Pediatric Otolaryngology

2004 Assessing Functional Outcomes of Surgery for Velopharyngeal Insufficiency, American Society of Pediatric Otolaryngology

Regional

1994 NGF, BDGF, and NT-3 Have Separate But Inter-related Effects on Post-Natal Auditory Neurons, Association for Research in Otolaryngology

1994 Ciliary Neurotrophic Factor is a Central Target Tissue Derived Neurotrophic Factor for Auditory Neurons, Association for Research in Otolaryngology

Seminar

National

2004 Miniseminar on Current Controversies Regarding Diagnosis and Management of Pediatric Vocal fold Immobility, American Academy of Otolaryngology-Head and Neck Surgery

b. Professional Leadership Roles related to Teaching

2003- National American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS) National Resident Study Group
I authored the teaching module on Congenital Nasal Masses for the pediatric unit of the American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS) National Resident Online Study Guide (NROSG)

3. Description of Teaching Award(s) Received

1999 Leo M. Davidoff Society for Outstanding Achievement in the Teaching of Medical Students
Albert Einstein Medical College

Part III: Bibliography

Original Articles

1. Lachman HM, Papolos DF, Weiner ED, Ramazankhana R, Hartnick C, Edwards E,

- Henn FA. Hippocampal neuropeptide Y mRNA is reduced in a strain of learned helpless resistant rats. *Brain Res Mol Brain Res*. 1992;14(1-2):94-100.
2. Staecker H, Liu W, Hartnick C, Lefebvre P, Malgrange B, Moonen G, Van de Water TR. NT-3 combined with CNTF promotes survival of neurons in modiolus-spiral ganglion explants. *Neuroreport*. 1995;6(11):1533-7.
 3. Geschwind MD, Hartnick CJ, Liu W, Amat J, Van De Water TR, Federoff HJ. Defective HSV-1 vector expressing BDNF in auditory ganglia elicits neurite outgrowth: model for treatment of neuron loss following cochlear degeneration. *Hum Gene Ther*. 1996;7(2):173-82.
 4. Hartnick CJ, Staecker H, Malgrange B, Lefebvre PP, Liu W, Moonen G, Van de Water TR. Neurotrophic effects of BDNF and CNTF, alone and in combination, on postnatal day 5 rat acoustic ganglion neurons. *J Neurobiol*. 1996;30(2):246-54.
 5. Hartnick CJ, Cohen AF, Smith RV. Reversible sensorineural hearing loss after renal transplant immunosuppression with OKT3 (muromonab-CD3). *Ann Otol Rhinol Laryngol*. 1997;106(8):640-2.
 6. Hartnick CJ, Smith RV, Tellis V, Greenstein S, Ruben RJ. Reversible sensorineural hearing loss following administration of muromonab-CD3 (OKT3) for cadaveric renal transplant immunosuppression. *Ann Otol Rhinol Laryngol*. 2000;109(1):45-7.
 7. Hartnick CJ, Ruben RJ. Preoperative coagulation studies prior to tonsillectomy. *Arch Otolaryngol Head Neck Surg*. 2000;126(5):684-6.
 8. Liu JH, Hartnick CJ, Rutter MJ, Hartley BE, Myer CM. Subglottic stenosis associated with transesophageal echocardiography. *Int J Pediatr Otorhinolaryngol*. 2000;55(1):47-9.
 9. Hartnick CJ, Hartley BE, Miller C, Willging JP. Pediatric fiberoptic endoscopic evaluation of swallowing. *Ann Otol Rhinol Laryngol*. 2000;109(11):996-9.
 10. Hartnick CJ, Cotton RT. Congenital laryngeal anomalies. Laryngeal atresia, stenosis, webs, and clefts. *Otolaryngol Clin North Am*. 2000;33(6):1293-308.
 11. Hartnick CJ, Shott S, Willging JP, Myer CM. Methicillin-resistant *Staphylococcus aureus* otorrhea after tympanostomy tube placement: an emerging concern. *Arch Otolaryngol Head Neck Surg*. 2000;126(12):1440-3.
 12. Hartnick CJ, Lacy PD, Myer CM. Endoscopic evaluation of the infratemporal fossa. *Laryngoscope*. 2001;111(2):353-5.
 13. Hartnick CJ, Kim HY, Chute PM, Parisier SC. Preventing labyrinthitis ossificans: the role of steroids. *Arch Otolaryngol Head Neck Surg*. 2001;127(2):180-3.
 14. Hartley BE, Gustafson LM, Liu JH, Hartnick CJ, Cotton RT. Duration of stenting in single-stage laryngotracheal reconstruction with anterior costal cartilage grafts. *Ann Otol Rhinol Laryngol*. 2001;110(5 Pt 1):413-6.
 15. Hartnick CJ, Cotton RJ. 50 years ago in the *Journal of Pediatrics*: Congenital tracheo-esophageal fistula without esophageal atresia. *J Pediatr*. 2001;138(6):916.
 16. Hartnick CJ, Rudolph C, Willging JP, Holland SK. Functional magnetic resonance imaging of the pediatric swallow: imaging the cortex and the brainstem. *Laryngoscope*. 2001;111(7):1183-91.
 17. Hartnick CJ, Hartley BE, Lacy PD, Liu J, Bean JA, Willging JP, Myer CM, Cotton

- RT. Topical mitomycin application after laryngotracheal reconstruction: a randomized, double-blind, placebo-controlled trial. *Arch Otolaryngol Head Neck Surg.* 2001;127(10):1260-4.
18. Hartnick CJ, Myseros JS, Myer CM. Endoscopic access to the infratemporal fossa and skull base: a cadaveric study. *Arch Otolaryngol Head Neck Surg.* 2001;127(11):1325-7.
 19. Hartnick CJ, Hartley BE, Lacy PD, Liu J, Willging JP, Myer CM, Cotton RT. Surgery for pediatric subglottic stenosis: disease-specific outcomes. *Ann Otol Rhinol Laryngol.* 2001;110(12):1109-13.
 20. Greinwald JH, Hartnick CJ. The evaluation of children with sensorineural hearing loss. *Arch Otolaryngol Head Neck Surg.* 2002;128(1):84-7.
 21. Hartnick CJ, Liu JH, Cotton RT, Rudolph C. Subglottic stenosis complicated by allergic esophagitis: case report. *Ann Otol Rhinol Laryngol.* 2002;111(1):57-60.
 22. Hartnick CJ, Giambra BK, Bissell C, Fitton CM, Cotton RT, Parsons SK. Final validation of the Pediatric Tracheotomy Health Status Instrument (PTHSI). *Otolaryngol Head Neck Surg.* 2002;126(3):228-33.
 23. Hartnick CJ. Open Excision of Hemangioma. *Operative Techniques in Otolaryngology-Head and Neck Surgery.* 2002;13(1):53-56.
 24. Hartnick CJ, Chung S, Emery KH, Myer CM. Imaging case study of the month. Pediatric virtual bronchoscopy. *Ann Otol Rhinol Laryngol.* 2002;111(3 Pt 1):281-3.
 25. Brigger MT, Hartnick CJ. Surgery for pediatric vocal cord paralysis: a meta-analysis. *Otolaryngol Head Neck Surg.* 2002;126(4):349-55.
 26. Hartnick CJ, Rutter M, Lang F, Willging JP, Cotton RT. Congenital high airway obstruction syndrome and airway reconstruction: an evolving paradigm. *Arch Otolaryngol Head Neck Surg.* 2002;128(5):567-70.
 27. Hartnick CJ. Validation of a pediatric voice quality-of-life instrument: the pediatric voice outcome survey. *Arch Otolaryngol Head Neck Surg.* 2002;128(8):919-22.
 28. Hartnick CJ, Brigger MT, Willging JP, Cotton RT, Myer CM. Surgery for pediatric vocal cord paralysis: a retrospective review. *Ann Otol Rhinol Laryngol.* 2003;112(1):1-6.
 29. Hartnick CJ, Dailey S, Franco R, Zeitels SM. Office-based pulsed dye laser treatment for hemorrhagic telangiectasias and epistaxis. *Laryngoscope.* 2003;113(6):1085-7.
 30. Shin JJ, Hartnick CJ. Pediatric endoscopic transnasal adenoid ablation. *Ann Otol Rhinol Laryngol.* 2003;112(6):511-4.
 31. Hartnick CJ, Bissell C, Parsons SK. The impact of pediatric tracheotomy on parental caregiver burden and health status. *Arch Otolaryngol Head Neck Surg.* 2003;129(10):1065-9.
 32. Hartnick CJ, Volk M, Cunningham M. Establishing normative voice-related quality of life scores within the pediatric otolaryngology population. *Arch Otolaryngol Head Neck Surg.* 2003;129(10):1090-3.
 33. Lim LH, Hartnick CJ, Willging JP. A rare case of combined type I and II first branchial sinus. *J Pediatr Surg.* 2003;38(10):E12-3.

34. Kamil SH, Eavey RD, Vacanti MP, Vacanti CA, Hartnick CJ. Tissue-engineered cartilage as a graft source for laryngotracheal reconstruction: a pig model. *Arch Otolaryngol Head Neck Surg.* 2004;130(9):1048-51.
35. Shin JJ, Hartnick CJ. Otologic manifestations of ectodermal dysplasia. *Arch Otolaryngol Head Neck Surg.* 2004;130(9):1104-7.
36. Hartnick CJ, Anupindi SA, Fan CM, Ryan D, Haver K. Fluoroscopic-guided balloon dilation of tracheal stenosis in a 26-week premature infant. *J Pediatr.* 2004;145(4):566.
37. Boseley ME, Hartnick CJ. Assessing the outcome of surgery to correct velopharyngeal insufficiency with the pediatric voice outcomes survey. *Int J Pediatr Otorhinolaryngol.* 2004;68(11):1429-33.
38. Hartnick CJ, Rehbar R, Prasad V. Development and maturation of the pediatric human vocal fold lamina propria. *Laryngoscope.* 2005;115(1):4-15.
39. Hartnick CJ, Zeitels SM. Pediatric video laryngo-stroboscopy. *Int J Pediatr Otorhinolaryngol.* 2005;69(2):215-9.

Books, Monographs, and Textbooks

1. Hartnick CJ and Cotton RT. Congenital Laryngeal Atresia, Stenosis, Webs, and Clefts. In: *Otolaryngol Clin North Am.* 33(6) ;2000. p. 1293-1308.
2. Hartnick CJ and MacCallum P. Sarcoma of the Head and Neck:update on management protocols. In: *Current Opin Otolaryngol Head Neck Surg.* 9 ;2001. p. 377-379.
3. Hartnick CJ and Choo D. Management of the unilateral Atretic ear. In: *Controversies in Otolaryngology.* New York: Thieme;2001. p. Chapter 72.
4. Hartnick CJ and MacCallum P. Carcinoma in children with recurrent respiratory papillomas: an update. In: *Current Opin Otolaryngol Head Neck Surg.* 9 ;2001. p. 374-376.
5. Hartnick CJ and Cotton RT. Stridor and Airway Obstruction. In: *Pediatric Otolaryngology.* 4th Philadelphia: Saunders Inc;2003.

Thesis

1. Hartnick, CJ, Rehbar, R, Prasad,V. Development and maturation of the pediatric human vocal fold lamina propria. *Triologic Society*;2005.