

**CURRICULUM VITAE  
UNIVERSITY OF ALABAMA AT BIRMINGHAM  
SCHOOL OF MEDICINE FACULTY**

**PERSONAL INFORMATION:**

**NAME:** Paul F. Castellanos, MD

**CITIZENSHIP:** USA; Naturalized July 3, 1968

**HOME ADDRESS:** 2028 Magnolia Ridge  
Vestavia Hills, Alabama 35243

**PHONE NUMBER:** (205) 968-3717

**RANK/TITLE:** Associate Professor of Surgery  
Otolaryngology-Head and Neck Surgery

**DEPARTMENT:** Surgery

**OFFICE ADDRESS:** Otolaryngology-Head and Neck Surgery  
BDB 563  
1530 3<sup>rd</sup> Avenue South  
Birmingham, Alabama 35294-0012

**Phone:** (205) 934-9766

**Facsimile:** (205) 934-3992

**E-Mail:** larynx@uab.edu

**HOSPITAL APPOINTMENTS:**

2008 – present	Cooper Green Mercy Hospital, Birmingham, Alabama
2007 – present	Children’s Hospital of Alabama, Birmingham, Alabama
2005 - present	University Hospital, Birmingham, Alabama
2005 - present	Veteran’s Administration Medical Center, Birmingham, Alabama
1994 – 2005	University of Maryland Medical System, Baltimore, Maryland

**EDUCATION:**

Vassar College, Poughkeepsie, NY	B.A.	August 1975 – June 1979
Louisiana State Medical School, New Orleans, LA	MD	July 1984 – May 1988

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**LICENSURE:**

State of Maryland	1998	D46288
State of Alabama	2005	26739

**BOARD CERTIFICATION:**

General Board Certification FLEX American Board of Otolaryngology (Diplomat)	June, 1988	
	May 9, 1995	#4235

**POSTDOCTORAL TRAINING:**

July 1, 1988 – June 30, 1989	Internship General Surgery	Washington University Jewish Hospital of St. Louis St. Louis, Missouri
July 1, 1990 – June 30, 1994	Residency Otolaryngology	Washington University St. Louis, Missouri

**ACADEMIC APPOINTMENTS:**

07/09 – Present	Director UAB Voice and AeroDigestive Center	University of Alabama at Birmingham Birmingham, Alabama
08/05 – Present	Associate Professor of Surgery Division of Otolaryngology	University of Alabama at Birmingham Birmingham, Alabama
07/94 – 07/05	Assistant Professor University of Maryland Division of Otolaryngology- Head & Neck Surgery Department of General Surgery	University of Maryland Baltimore, Maryland
06/02 – 07/05	Director The AeroDigestive Center	University Hospital University of Maryland Medical System
03/95 – 06/02	Director Voice & Swallowing Disorders Center	University of Maryland Baltimore, Maryland

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**ACADEMIC APPOINTMENTS (Continued):**

03/95 – 06/02	Director University of Maryland Airway Clinic	University of Maryland Baltimore, Maryland
02/98 – 02/99	Interim Director Division of Otolaryngology Head and Neck Surgery Department of Surgery	University of Maryland Baltimore, Maryland

**AWARDS/HONORS:**

2008 Best Doctor in America  
2007 Best Doctor in America  
2005 Best Doctor in America  
1979 Alpha Omega Alpha Honor Society  
1979 General & Departmental Honors

**PROFESSIONAL SOCIETIES:**

The Triological Society – *Fellow* – 02/2010  
The American Bronchoesophagological Association:  
Active Member; Inducted 5/13/97  
The American Speech, Language, and Hearing Association  
The American Academy of Otolaryngology—Head & Neck Surgery: *Fellow*  
Maryland Society of Otolaryngology Head and Neck Surgery  
President, 7/98 – 06/99  
Secretary-Treasurer, 07/97 – 06/98  
The Acoustical Society of America: *Active Member*  
American Institute of Physics  
American Thoracic Society, 2007  
American College of Chest Physicians: *Fellow*

**COUNCILS AND COMMITTEES:**

2000-present Neurology Study Group  
2005-present Board of Governors International Bronchoesophagology  
2003-2005 The University of Maryland Resuscitation Committee  
2002-2005 Laser Safety and Credentialing Committee  
2008-present Medical Director UAB Laser Safety Committee  
2009-Present UAB PTAT Committee

**EDITORIAL BOARD MEMBERSHIPS:**

**Editorial Board Member**, Journal of Oto-Rhino-Laryngology, Head and Neck Surgery (2009)

**UNIVERSITY ACTIVITIES:**

Director, UAB Voice and AeroDigestive Center, University of Alabama Birmingham,  
Birmingham, Alabama, 07/09 - Present

Associate Professor of Surgery, University of Alabama at Birmingham,  
Division of Otolaryngology, Birmingham, Alabama, 08/05 – Present

Director, Voice & Swallowing Disorders Center, University of Maryland,  
Baltimore, Maryland, 03/95 – 06/02

Director, University of Maryland Airway Clinic, University of Maryland,  
Baltimore, Maryland, 03/95 – 06/02

Interim Director, University of Maryland, Division of Otolaryngology,  
Department of Surgery, Baltimore, Maryland, 02/98 – 02/99.

Director, The AeroDigestive Center, University Hospital, University of Maryland  
Medical System, 06/02 – 07/05

**TEACHING EXPERIENCE:**

2008 Mentor, Summer Health Enrichment Program, University of Alabama at Birmingham

**ONGOING RESEARCH ACTIVITIES:**

PI: Surgical management of laryngopharyngeal extra-esophageal reflux disease (LERD). Co- investigator:  
Dr. Adrian Park, Chief, Division of General Surgery University of Maryland Department of Surgery.

PI and National Clinical Director of multicenter initiative: Photodynamic Therapy (PDT) in Head and Neck  
Cancer: Industry sponsored research program to apply clinical techniques already in use for PDT in H&N  
cancer using a more powerful hematoporphyrin derivative.

Clinical representative on board overseeing the development of electronic medical record systems for the  
University of Maryland Medical System.

**MANUSCRIPTS PRINTED IN SCIENTIFIC JOURNALS:**

1. May JG, Matteson HH, Agamy G, and Castellanos PF, *The effects of differential adaptation on partial frequency-contingent color aftereffects*. **Percept Psychophys** 23(5):409-12, 1978.
2. Kastin AJ, Castellanos PF, Banks WA, Coy DH, *Radioimmunoassay of DSIP-like material in human blood: possible protein binding*. **Pharmacol Biochem Behav** 15(6):696-74, 1981.
3. Kastin AJ, Banks WA, Castellanos PF, Nissen C, Coy DH, *Differential penetration of DSIP peptides into rat brain*, **Pharmacol Biochem Behav** 17(6):1187-91, 1982.
4. Kastin AJ, Castellanos PF, Fishman Alan J, Proffitt JK, Graf MF, *Evidence for peptide aggregation*, **Pharmacol Biochem Behav** 21(6):969-73, 1984.
5. Castellanos PF, Gates GA, Esselman G, Song F, Vannier MV, and Kuo M, *Anatomic Considerations in Botox Therapy for Spasmodic Dysphonia*, **Laryngoscope** 104(6) 656-662, Jun 1994.
6. Castellanos PF, *Method and Clinical Results of a New Transthyrotomy Closure of the Supraglottic Larynx for the Treatment of Intractable Aspiration*, **Ann. Otol. Rhin. and Laryngol.** 106(6) 451-460, June 1997.
7. Castellanos PF, *Changes in the hypopharynx may suggest supraesophageal reflux disease*. **Am J Manag Care**, 2000 Oct 6(16 Suppl):S883-5.
8. Castellanos PF, *The Laryngology Hospitalist*. **Journal of Voice** 19(3)470-475, September 2005.
9. Catania RA, Kavic SM, Roth JS, Lee TH, Meyer T, Fantry GT, Castellanos CF, Park A, *Laparoscopic Nissen fundoplication effectively relieves symptoms in patients with laryngopharyngeal reflux*. **J Gastrointest Surg.** 2007 Dec;11(12):1579-87; discussion 1587-8. Epub 2007 Oct 12.
10. Sharp DB, Castellanos PF, *Clinical Outcomes of Bedside Percutaneous Dilatational Tracheostomy With Suspension Laryngoscopy for Airway Control*. **Ann Otol Rhinol Laryngol** 2009;118(2):91-8.

**Journal Articles In Press:**

11. White HN, Sharp DB, Castellanos PF. *Suspension laryngoscopy assisted percutaneous dilatational tracheostomy in high risk patients*. **Laryngoscope**

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**BOOKS CHAPTERS:**

1. Castellanos PF, Hemmes RB, Vasselli JR, Johnson PF, *Naloxone effects on food and fluid intake in male and female Zucker rats during repeated testing*. **FED PROC** 39(3):782, 1980.
2. Castellanos PF, Review of: Blitzer A., Brin MF, Sasaki CT, Fahn S, Harris KS, *Neurologic Disorders of the Larynx*, Thieme Medical Publishers, New York, 1992. **Laryngoscope** 102:1448
3. Castellanos, PF, *Third World Experiences in Otolaryngology*, **American Academy of Otolaryngology Head and Neck Surgery Bulletin**, Jan. 1993
4. Mattox DE, Castellanos PF, *Minimally Invasive Surgery in Otolaryngology Head and Neck Surgery*, **2<sup>nd</sup> Ed; Update I**, Editors Cummings CW, Frederickson JM, Harker LA, Krause CJ, Schuller DE, Mosby. St. Louis, 1995, pp. 51-60.
5. Castellanos, PF, Elder SA, Hong SA, Skinner C, *Single Glottic Pulse Analysis of Excised Larynges in an Anechoic Chamber*, **J. Acoust. Soc. Am.** Vol. 103, No. 5, Pt.2, 2775, May 1998.
6. Castellanos PF, *Laryngeal Trauma. Emergencies of the Head and Neck*, Editors D. W. Eisele and S. J. McQuone. Mosby, Philadelphia, 1999.

**BOOK CHAPTER IN PRESS:**

1. Castellanos PF, Spector GJ, and Kaiser T, *Tumors of the Larynx and Laryngopharynx. The Ballenger Textbook of Otolaryngology*, Editor: John J. Ballenger, Williams and Wilkins, *in press*

**MAJOR LECTURERS AND VISITING PROFESSORSHIPS:**

1. "Evaluation of voice during a methacholine challenge." Dobbs, P., Castellanos, P.F., R. Bascom. *ASHA Annual Convention*; December 1995.
2. "The technique and clinical outcomes of a new technique for the trans-laryngofissure closure of the supraglottic larynx." Castellanos, P.F. *Am Bronch Esophagol Soc.*; May 7, 1996.
3. "Costs benefit analysis of the treatment of intractable aspiration." Castellanos, P.F., Dobbs, P., Hall, L., Chandra, R., and Bascom, B. *Am Bronch Esophagol Soc.*; May 8, 1996.
4. "Evidence for a Second Laryngeal Sound Source." Castellanos, P.F. and Elder, S.A. *Acoustical Society of America Annual Meeting*. State College of Pennsylvania; June 16-20, 1997.

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**MAJOR LECTURERS AND VISITING PROFESSORSHIPS (Continued):**

5. Visiting Professorship at the University of Sao Paulo, Brazil. Riberao Preto, Brazil. Lectured on voice science, conservation surgical oncology of the larynx, reconstruction techniques in the larynx, and a new technique for the treatment of intractable aspiration. Also demonstrated surgical techniques in the operating theater. November 1997.
6. "A Cadaver Laryngeal Model of Voice Preservation. Anti-Aspiration Surgery." Castellanos, P.F. and Elder, S.A. *ARO Midwinter Meeting*; February 18, 1998.
7. Invited Lectures at the American Academy of Allergy Asthma & Immunology 54<sup>th</sup> Annual Meeting. Topics: "Vocal Cord Dysfunction: Wheezing But Not Asthma" and "The Otolaryngologist's Approaches to Respiratory Problems" March 1998.
8. Invited Lectureship at the First International Congress of the Middle East Federation of Otolaryngology Head and Neck Surgery. Title: "Evaluation and Treatment of Voice Disorders". Aman, Jordan on April 20<sup>th</sup> through 24<sup>th</sup>, 1998.
9. A Physiologic Model of Laryngeal Acoustic Output: Opening Phase Dynamics and Vocal Fold Adhesion." Castellanos, P.F. and Elder, S.A. *Combined Otolaryngological Spring Meetings AAO-HNS*; May 8, 1998.
10. "Single Glottic Pulse Analysis of Excised Human Larynges in Anechoic Chamber". Castellanos, P.F. and Elder, SA. *Acoustical Society of America 135<sup>th</sup> Meeting*; June 22, 1998.
11. Invited Lectureship: University of Göttingen Department of ORL. Topics: "The Surgical Treatment of Intractable Aspiration" and "The Ventricular Flap Reconstruction of Radical Cordectomy Surgical Defects". Göttingen, Germany, September 1999.
12. Visiting Professorship and Invited Lecturer Vanderbilt School of Medicine, Department of Otolaryngology Head and Neck Surgery. Topic: "Emergency Airway Management". May 2000.
13. Invited Lectureship: Nashville Society of Otolaryngology Head and Neck Surgery. Topic: "The Ventricular Flap Reconstruction of Radical Cordectomy Surgical Defects". May 2000.
14. Program Organizer and Co-Chair: International College of Surgeons, Otolaryngology Section. Topic: Advances in the Laser Resection of Advanced Laryngeal Carcinoma. Boston, MA, July 2000.
15. Invited Lecturer at the Society of Gastroenterology, Puerto Rico. Controversies in the Diagnosis and Treatment of Supra-esophageal Reflux. San Juan Puerto Rico. September 2000.
16. Invited Lecturer at the Society of Family Practice, Puerto Rico, Gastroenterology Update: Complications from Supra-esophageal Reflux. San Juan, Puerto Rico. September 2000.

**MAJOR LECTURERS AND VISITING PROFESSORSHIPS (Continued):**

17. Invited lecturer at the Annual Digestive Disease Week Conference (DDW) San Diego, California. Topic: Update on the Hypopharynx and Supra-esophageal Reflux., 2001.
18. “Life as a Junior Faculty Member.” Castellanos, P.F. *Southern Section Trilogic*. Marco Island, FL; January 11-14, 2001
19. Invited Lecturer at the Washington University Department of Otolaryngology, St. Louis, MO; Grand Rounds Topic: The Lateral Arytenoid Adduction: Phonosurgery under General Anesthesia. February 2002.
20. Invited Lecturer at the Eastern Panhandle Medical Society, Shepards town, WV, Topic: Laryngopharyngeal Extra-Esophageal Reflux Disease and Head and Neck Cancer. June 12, 2002.
21. Invited Lecturer at the World Congress for Bronchoesophagology (WCBE) Boston, MA, Topic: Laryngopharyngeal Extra-Esophageal Reflux Disease. June 16-19, 2002.
22. Visiting Professorship: Einstein University School of Medicine, NYC Division of Gastroenterology Grand Rounds: Topic: Controversies in Supra-esophageal Reflux. May 2003.
23. Invited Lecturer: Washington University Department of Otolaryngology Head and Neck Surgery; Ogura Day Program. Topic: Photodynamic Therapy for Head and Neck Cancer. June 2003.
24. Invited Lecturer: DC Society of Otolaryngology Head and Neck Surgery. Topic: Photodynamic Therapy in Head and Neck Cancer. May 2004.
25. Visiting Professorship: Georgetown Department of Otolaryngology Head and Neck Surgery, Washington DC. Grand Rounds Topic: Trans-Oral Laser Microsurgery in Head and Neck Cancer; May 2004.
26. Invited Lecturer: University of Washington Department of Otolaryngology Head and Neck Surgery; Seattle Washington Alumni Celebration and Retirement of Dr. George A. Gates. Topic: Opening Phase Laryngeal Mechanics and Vocal Fold Injury. June 2004
27. Guest Lecturer: 10<sup>th</sup> Annual Global Missions Health Conference, Lexington, Kentucky, November, 2005.
28. Guest Lecturer: Advances in ENT/MIS & GERD, Minimally Invasive Therapy Center, GERD The Burning Issues, University of Maryland School of Medicine, April 7, 2006.
29. Guest Lecturer: 19<sup>th</sup> Advanced International Course On Laser Surgery in ENT, Yvoir Belgium, May 8-June 1, 2006.



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**MAJOR LECTURERS AND VISITING PROFESSORSHIPS (Continued):**

30. Guest Lecturer: Alabama Society of Otolaryngology, Head and Neck Surgery, Sandestin, FL, June 16-18, 2006.
31. Guest Lecturer: 14<sup>th</sup> World Congress for Bronchoesophagology, Buenos Aires Argentina, June 25-28, 2006.
32. Guest Lecturer: SAGES Postgraduate Course and Scientific Session, April 19-22, 2007.
33. Guest Lecturer: AAO-HNSF Annual Meeting and OTO Expo, Washington, DC, September 18, 2007.
34. Guest Lecturer: XVI Annual PVSF/UCLA Voice Conference, UCLA Campus, October 25-28, 2007.
35. Guest Lecturer: Metro Atlanta Educational Society for Otolaryngology-HNS, Atlanta, GA, January 17, 2008.
36. Guest Lecturer: Cook Critical Care Meeting, Scottsdale, AZ, January 23-25, 2008.
37. Visiting Professor: University of Pennsylvania Health System, Otolaryngology Grand Rounds, Philadelphia, PA, February 21, 2008.
38. Chairman – Panel Discussion: “Percutaneous Tracheostomy”, 15<sup>th</sup> World Congress for Bronchoesophagology, Tokyo, Japan, March 30-April 2, 2008.
39. Guest Lecturer: 2008 SAGES Postgraduate Course and Scientific Session, Philadelphia, PA, April 12, 2008.
40. “Advanced Laryngeal Anatomy”. Lecture to 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Year Medical Students, UAB, December 9, 2009.
41. “Advanced Anatomy and Function in Swallowing and Speech”. Lecture to 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Year Medical Students, UAB, December 9, 2009.
42. “Laser in Larynx Cancer and Benign Lesions”, 1<sup>st</sup> Meeting of the European Academy of ORL-HNS, Mannheim, Germany, June 27-30, 2009.
43. “Suspension Rigid Laryngoscopy as a Means of Airway Control in Percutaneous Dilatational Tracheostomy”, 1<sup>st</sup> Meeting of the European Academy of ORL-HNS, Mannheim, Germany, June 27-30, 2009.
44. “Laser in Larynx Cancer and Benign Lesions”, 1<sup>st</sup> Meeting of the European Academy of ORL-HNS, Mannheim, Germany, June 27-30, 2009.
45. “Airway Cases”, AlaSOHN Annual Scientific Meeting, Destin, Florida, July 25, 2009.

**MAJOR LECTURERS AND VISITING PROFESSORSHIPS (Continued):**

46. “Endoscopic Management of Subglottic/Tracheal Stenosis” AlaSOHN Annual Scientific Meeting, Destin, Florida, July 25, 2009.
47. “Transoral Laser Microsurgery Hand-On Technique Tips with the Digital Robotic AcuBlade”, AlaSOHN Annual Scientific Meeting, July 25, 2009.
48. “Advanced Laryngeal Anatomy”. Lecture to 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Year Medical Students, UAB, January 5, 2010
49. “Advanced Anatomy and Function in Swallowing and Speech”. Lecture to 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Year Medical Students, UAB, January 5, 2010.
50. “Trans-Oral Laser Microsurgery for Benign Disease”. XVIII Annual PVSF/UCLA Pacific Voice Conference, Los Angeles, California, February 26-27, 2010
51. Chair “Vascular and Soft Tissue Trauma Session”. XVIII Annual PVSF/UCLA Pacific Voice Conference, Los Angeles, California, February 26-27, 2010
52. “A Christian Surgeon’s Perspective on Pressing Ethical Issues in Medicine”. UAB Spirituality and Medicine, April 27, 2010
53. “Trans Oral Laser Microsurgery for Supraglottic Stenosis”. 16<sup>th</sup> WCB/WCBE, Budapest, Hungary, June 15, 2010
54. Chair “Sentinel Lymph Node Navigation Surgery for Node-Negative Head and Neck Squamous Cell Carcinoma”. 16<sup>th</sup> WCB/WCBE, Budapest, Hungary, June 15, 2010
55. “The Role of TLS as Salvage Surgery after RT.” 8<sup>th</sup> Congress of the European Laryngological Society, Vienna, Austria, September 1-4, 2010
56. “Trans Oral Laser Surgery for Laryngeal Stenosis: A Minimally Invasive, Safe and Effective Approach to a Dangerous Problem.” 8<sup>th</sup> Congress of the European Laryngological Society, Vienna, Austria, September 1-4, 2010
57. “Tachyarrhythmias” Interactive Session – Cardiology in the ICU, CHEST 2010 Annual Assembly, Vancouver, BC, Canada, October 30-November 4, 2010
58. “Transoral Laser Microsurgery: Soft Tissue Rearrangement for Challenging Benign Laryngopharyngeal Disease.” UC Irvin Otolaryngology Update, Indian Wells, CA, February 19-22, 2011
59. “TNE vs TN-EGD” UC Irvin Otolaryngology Update, Indian Wells, CA, February 19-22, 2011
60. “Voice Restoration/Rejuvenation: OR and Office Injection Based Techniques.” UC Irvin Otolaryngology Update, Indian Wells, CA, February 19-22, 2011

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**MAJOR LECTURERS AND VISITING PROFESSORSHIPS (Continued):**

61. “Office Endoscopy: What are the Limits of Intervention?” UC Irvin Otolaryngology Update, Indian Wells, CA, February 19-22, 2011

**MISCELLANEOUS:**

**Program Development**

1. **Voice and Swallowing Disorders Center:** I started this program as my primary outpatient practice in clinical and surgical laryngology. The growth of the program was fastest when it was combined with a Laryngology Hospitalist project (see below) and the founding of the VSED Center in the University of Maryland Hospital.
2. **The Voice, Swallowing and Esophageal Disorders Center (VSED):** I started a multispecialty program within the University Hospital to combine the talents of Laryngology, Gastroenterology, and Laparoscopic Surgery in the care of patients with complex reflux related voice and airway diseases, and pharyngoesophageal dysphagia. This program blossomed into an inpatient and tertiary referral outpatient practice with the success of the Laryngology Hospitalist concept.
3. **The AeroDigestive Center:** The VSED evolved into the AeroDigestive Center as part of a broadening of the scope of patient care to include patients with esophageal dysmotility and even bowel dysmotility such as patients with Irritable Bowel Syndrome or IBS. I am the Medical Director of this Center.
4. **Photodynamic Therapy of Head and Neck Malignancies:** Instituted the use of PDT in the treatment of selected H&N cancers at the University of Maryland. Up to 11/2004 approximately 30 patients have been treated with this modality. The vast majority were treated with intent to cure either as a primary measure or as an adjuvant modality to improve survival.
5. **Trans-oral Laser Microsurgery:** Trained with Dr. Wolfgang Steiner in Germany to learn his surgical technique and then instituted this surgical program at the University of Maryland.
6. **The Laryngology Hospitalist Program:** (See attached Pre-Print) Established a hospital based program of airway and swallowing care at the University of Maryland to improve the timeliness and quality of care delivered to patients in the critical care and emergency room spheres.

**Development of Surgical Techniques**

- 1) **Complete Closure of the Supraglottis for Intractable Aspiration:** A new method for separating the trachea from the pharynx as a treatment for intractable aspiration has been developed and published. It is non-ablative and is reversible. It is far more reliable than any other method in current use short of a total laryngectomy. Over 40 such cases have been done to date with only a single revision case for leakage. The technique is reversible and does not destroy the phonatory potential of the patient should their capacity for protecting their airway return.

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**Development of Surgical Techniques (continued)**

- 2) **Partial Closure of the Supraglottis for Intractable Aspiration:** A modification of the complete supraglottic closure has been developed that preserves voice and provides for laryngeal protection for some oral nutrition.
- 3) **False Vocal Fold Reconstruction of a Complete Cordectomy Defect:** A new method for reconstructing the glottis following radical cordectomy has been developed. In all cases performed patients have had excellent voice results, uniform decannulation from their tracheostomy, and 100% tumor control.
- 4) **Lateral Arytenoid Adduction:** A new method for performing an arytenoid adduction (AA) has been developed. It is based on benchwork study of the tension and rotation dynamics of the larynx comparing a traditional adduction technique to a new lateral approach. It is more durable and less apt to be associated with complications inherent in AA such as over adduction and airway obstruction. The basic science, the technique, and the clinical outcomes are being prepared for publication.