

**CURRICULUM VITAE, May 2007**  
**SETH D. FORCE, M.D.**

**Office**

Emory University School of Medicine  
Division of Cardiothoracic Surgery  
1365 Clifton Road, NE  
Atlanta, Georgia 30322  
(404)778-5345

**CITIZENSHIP**                      U.S.A.

**EDUCATION AND TRAINING**

**UNDERGRADUATE**

1985-1989                      B.A., Davidson College  
Davidson, NC  
Major: Economics

**GRADUATE**

1990-1994                      M.D., Tulane University School of Medicine  
New Orleans, LA

**POSTGRADUATE**

1994-1995                      Internship, Department of Surgery  
Hospital of the University of Pennsylvania  
Philadelphia, PA

1995-2001                      Instructor in Surgery  
Hospital of the University of Pennsylvania  
Philadelphia, PA

1997-1999                      Post Doctorate Research Fellow, Thoracic Oncology Laboratory  
Hospital of the University of Pennsylvania  
Philadelphia, PA

2001-2003                      Thoracic Surgery Fellowship  
Washington University School of Medicine  
St. Louis, MO

## **ACADEMIC APPOINTMENTS**

08/2003 - Present      Assistant Professor, Department of Surgery  
Division of Cardiothoracic Surgery  
Emory University School of Medicine  
Atlanta, GA

08/2003 - Present      Surgical Director, Adult Lung Transplant Program  
Emory University Hospital  
Atlanta, Georgia

08/2003 - Present      McKelvey Scholar in Lung Transplantation

01/2007 - Present      Emory Center for Respiratory Health Scientific Council

**LICENSURE**                      Georgia 053444

**CERTIFICATION**              2002 - American Board of Surgery, #047007  
2004- American Board of Thoracic Surgery #6909

## **HONORS AND AWARDS**

Undergraduate:              Alpha Epsilon Delta Premedical Honor Society

Medical School:              Alpha Omega Alpha Honor Society  
The John T. Halsey Award for Excellence in Pharmacology

Residency:                      Co-Director Residents' Council (2000-2001)

## **PROFESSIONAL SOCIETIES**

Association for Academic Surgery, 01/01/01  
American College of Chest Physicians, Fellow (FCCP) 10/2005  
International Society for Heart & Lung Transplantation, 2004  
Southern Thoracic Surgical Association 2004  
American College of Surgical Oncologists 2004  
Society of Thoracic Surgeons 2005

## **PROFESSIONAL COMMITTEES**

ACCP's Interventional Chest/Diagnostic Procedures NetWork steering committee

Member, Solid Organ Transplant Committee (SOTC)  
Department of Surgery - Emory University School of Medicine  
2003 – Present

Member, CTSNet Resident's Editorial Board 2004 – Present

## REVIEWER

Annals of Thoracic Surgery  
Journal of Thoracic and Cardiovascular Surgery  
Journal of Surgical Research  
Transplant International  
Journal of the American College of Surgeons  
Cancer

## JOURNAL ARTICLES

1. Scalia SV, Taheri PA, **Force SD**, Ozmen V, Lui D, Fish J, Hansen D, Chambers R, Flint LM, Steinberg S: Mesenteric microcirculatory changes in nonlethal hemorrhagic shock: The role of resuscitation with balanced electrolyte or hypertonic saline/dextran. *The J of Trauma* 33:321-325, 1992
2. Light J, Bellan JA, Roberts MP, **Force SD**, Chen I, Kerstein MD, Kadowitz PJ, McNamara DB: Heparin treatment enhances the recovery of neoendothelial acetylcholine-induced vascular relaxation following balloon catheter injury in the rabbit aorta. *Circulation* 88(pt 2):413-419, 1993
3. Taheri PA, Lipton HL, **Force SD**, Hyman AL, Flint LM, Ferrara JJ: Analysis of regional hemodynamic regulation in response to scald injury. *J Clinical Investigation* 93(1):147-154, 1994
4. Lanuti M, Gao GP, **Force SD**, Chang MY, El Kouri C, Amin KM, Hughes JV, Wilson JM, Kaiser LR, Albelda SM: An E1E4-deleted adenovirus expressing HSVtk in cancer gene therapy. *Human Gene Therapy* 10(3):463-475, 1999
5. Lanuti M, El Kouri C, **Force SD**, Chang MY, Amin K, Xu K, Blair IA, Kaiser LR, Albelda SM: The use of protamine to augment adenovirus-mediated cancer gene therapy. *Gene Therapy* (6):1600–1610, 1999
6. Keyang X, Lanuti M, Lambright ES, **Force SD**, Albelda SM, Blair I: A rapid and sensitive method for the quantification of gancyclovir in plasma using liquid chromatography/selected reaction monitoring/mass spectrometry. *Biomedical Chromatography* 14(2): 93-98, 2000
7. Lanuti M, Rudginsky S, **Force SD**, Lambright ES, Siders WM, Chang MY, Amin KM, Kaiser LR, Scheule RK, Albelda SM: Cationic lipid: Bacterial DNA complexes elicit adaptive cellular immunity in murine intraperitoneal tumor models. *Cancer Res* 60:2955-2963, 2000
8. Lambright ES, Kang EH, **Force SD**, Lanuti M, Caparrelli D, Kaiser LR, Albelda SM, Molnar-Kimber KL: Effect of preexisting anti-herpes immunity on the efficacy of herpes simplex viral therapy in a murine intraperitoneal tumor model. *Mol Ther* 2(4):387-393, 2000

9. Lambright ES, **Force SD**, Lanuti M, Wasfi DS, Amin KM, Albelda SM, Kaiser LR: Efficacy of repeated adenoviral suicide gene therapy in a localized murine tumor model. *Ann Thorac Surg* 70(6):1865-1870, 2000
10. Lambright ES, Amin K, Wiewrodt R, **Force SD**, Lanuti M, Propert KJ, Litzky L, Kaiser LR, Albelda SM: Inclusion of the herpes simplex thymidine kinase gene in a replicating adenovirus does not augment antitumor efficacy. *Gene Therapy* 8:946-953, 2001
11. Wiewrodt R, Amin K, Kiefer M, Jovanovic VP, Kapoor V, **Force S**, Chang M, Lanuti M, Black ME, Kaiser LR, Albelda SM. Adenovirus-mediated gene transfer of enhanced Herpes simplex virus thymidine kinase mutants improves prodrug-mediated tumor cell killing. *Cancer Gene Therapy*. 10(5): 353-364, 2003 May.
12. **Force SD**, Lau CL, Moazami N, Trulock EP, Patterson GA: Bilateral lung transplantation and pulmonary artery reconstruction in a patient with chronic obstructive pulmonary disease and a giant pulmonary artery aneurysm. *J Thorac Cardiovasc Surg* 126(3):864-866, 2003
13. **Force SD** and Patterson GA: Curved axillary thoracotomy. *Operative Techniques in Thoracic and Cardiovascular Surgery*. 8(2):62-67, 2003
14. **Force SD** and Cooper JD: Horizontal muscle sparing incision. *Operative Techniques in Thoracic and Cardiovascular Surgery*. 8(2):68-70, 2003
15. **Force SD** and Patterson GA: Anterolateral thoracotomy. *Operative Techniques in Thoracic and Cardiovascular Surgery*. 8(2):104-109, 2003
16. **Force SD** and Patterson GA: Clinical-pathologic conference in general thoracic surgery: Pulmonary blastoma. *J Thoracic Cardiovasc Surg* 126(5):1247-1250, 2003
17. **Force SD**, Choong C, Meyers BF: Lung Transplantation for Emphysema. In: Ferguson MK, Consulting Ed. *Chest Surgery Clinics of North America*, Vol. 13(4). Philadelphia, PA: WB Saunders Company. 2003:651-667
18. **Force SD**: The "Innocent Bystander" complications following esophagectomy: Atrial fibrillation, recurrent laryngeal nerve injury, chylothorax, and pulmonary complications. *Seminars in Thoracic Cardiovasc Surg* 16(2): 117-123, 2004
19. Richard J. Battafarano, **Seth D. Force**, Bryan F. Meyers, Jennifer Bell, Tracey J. Guthrie, Joel D. Cooper, and G. Alexander Patterson. "Benefits of resection for metachronous lung cancer." *J Thorac Cardiovasc Surg* 2004 127: 836-842.

20. **Force SD**, Miller DL, Petersen R, Mansour KA, Craver J, Guyton RA, Miller JI. The Incidence of Deep Sternal Wound Infections Following Tracheostomy in Cardiac Surgery Patients. *Ann Thorac Surg* 2005 80: 618-622 .
21. **Force SD**, Miller DL, Pelaez A, Ramirez AM, Vega D, Barden B, Lawrence EC. Outcomes of Delayed Chest Closure Following Bilateral Lung Transplantation. *Ann. Thorac. Surg.*, Jun 2006; 81: 2020 - 2025.
22. Luu TD, Reddy VS, Miller DL, **Force SD**. Gastric Rupture Associated With Diaphragmatic Hernia During Pregnancy. *Ann T Surg.* 82(5): 1908-10, 2006 Nov.
23. Esper, Annette MD; Force, Seth MD; Gal, Anthony MD, FCCP; Wolfenden, Linda L. MD. A 36-Year-Old Woman With Hemoptysis and a Lung Mass 3 Months After Delivery. *Chest.* 130(5):1620-1623, November 2006.
24. **Force SD**, Pelaez A, Neujahr DC, Ramirez AM, Whitley W, Miller DL, Lawrence EC. Technique of right single-lung transplantation for idiopathic pulmonary fibrosis using cross-field ventilation. *J Thorac Cardiovasc Surg.* 2007 Jan;133(1): 272-3.
25. Proctor L, Folpe AL, Esper A, Wolfenden LL, **Force S**, Logani S. Well-differentiated fetal adenocarcinoma of the lung: Cytomorphologic features on fine-needle aspiration with emphasis on use of beta-catenin as a useful diagnostic marker. *Diagn Cytopathol.* 2007 Jan;35(1):39-42.
26. Miller DL. **Force SD**. Outpatient microthoracoscopic sympathectomy for palmar hyperhidrosis. *Annals of Thoracic Surgery.* 83(5):1850-3; discussion 1853, 2007 May.
27. Lund M, **Force S**. Airway Stenting and the FDA advisory: A call for restraint. Accepted for *Chest.* Jun 2007.

## BOOK CHAPTERS

1. Contributing Author: *General Surgery Pearls of Wisdom: Medical Student USMLE, Parts II and III.* Boston Medical Publishing Corp. Boston, 1999
2. **Force SD**, and Kaiser LR: Thoracic Pathophysiology and Malignancies. In: Lippincott Williams & Wilkins, Eds. *The Surgical Review: An integrated basic and clinical science study guide.* Philadelphia, 2000:365-381
3. **Force SD**: 11 Chest Wall Procedures. 4 Thorax. *ACS Surgery Online.* Souba WW, Fink MP, Jurkovich, GJ et al, Eds. WebMD Inc., New York 2005.

4. **Force SD:** Difficult Decisions in Thoracic Surgery, "Management of Acute Diaphragmatic Rupture: Thoracotomy versus Laparotomy." Pp 379-384. Springer-Verlag. London. 2007.

## PRESENTATIONS

1. "Characterization of Regional Blood Flow Alterations in Response to Burn Injury." 34<sup>th</sup> Annual National Student Research Forum, University of Texas at Galveston April 1993
2. "Variable Effects of the Host Immune System in Adenoviral-based HSVtk Gene Therapy for Cancer." 84<sup>th</sup> Annual Clinical Congress, American College of Surgeons, Orlando, FL October 28, 1998
3. "The Role of P21 and the Immune System in the Bystander Effect Induced by Adenoviral P53 (Ad.P53) Cancer Gene Therapy." International Conference on Gene Therapy of Cancer. Sponsored by the Sidney Kimmel Cancer Center, San Diego, CA November 20, 1998
4. "Herpes Simplex Virus Thymidine Kinase (Hsxtk) Gene Therapy Utilizing an E1/E4-Deleted Adenoviral Vector: Preliminary Results of a Phase I Clinical Trial for Pleural Mesothelioma." 6<sup>th</sup> International Conference on Environmental & Occupational Lung Disease, Vancouver, BC February 11, 1999
5. "The Efficacy of FDG-PET Imaging in Esophageal Cancer." 83<sup>rd</sup> Annual Meeting of the AATS General Thoracic Surgery Scientific Session. Boston MA May 5, 2003
6. "Lung Transplants." The Emory University Cystic Fibrosis Family Education Day. Atlanta, GA November 8, 2003
7. "The Management of a Patient with End-stage Lung Disease due to Chronic Obstructive Pulmonary Disease and a Giant Pulmonary Artery Aneurysm." Pulmonary Grand Rounds. Sponsored by the Medical College of Georgia School of Medicine. Augusta, GA January 13, 2004
8. "Lung Transplantation for End-stage Lung Disease secondary to Alpha-1-Antitrypsin Deficiency." 13<sup>th</sup> Annual Education Conference, Alpha-1 Association. Atlanta, GA May 1, 2004
9. "Lung Transplantation and Pulmonary Rehabilitation Issues." 25<sup>th</sup> Annual GACHPSM State Educational Meeting. Savannah, GA. Sep. 3-4, 2004.
10. "Lung Transplantation." Cardiology Grand Rounds. Emory University Hospital. October 4, 2004.

11. "Role of PET and Combined Imaging Modalities to Evaluate Thoracic Malignancies-Esophageal Cancer." The American College of Surgeons Post Graduate Course. New Orleans, LA. Thursday, October 14, 2004.
12. "Lung Transplantation" Georgia Transplant Foundation Annual Meeting. Oct 2004. Atlanta, GA
13. The Incidence of Deep Sternal Wound Infections Following Tracheostomy in Cardiac Surgery Patients. Oral Presentation. Southern Thoracic Surgical Society Annual Meeting. Cancun, Mexico. Nov 3-6, 2004.
14. "The Current State of Lung Transplantation." Cartersville Hospital Grand Rounds. Cartersville, GA. 7/15/2005.
15. "The Current State of Lung Transplantation." Internal Medicine Grand Rounds. Mercer Hospital. Macon, GA. 8/23/05.
16. "The Current State of Lung Transplantation." Internal Medicine Grand Rounds. Hamilton Hospital. Dalton, GA. 9/1/05.
17. "Novel Staging Modalities for Lung Cancer: Molecular Staging." Specialty Session. American College of Surgeons 91<sup>st</sup> Clinical Congress. San Francisco, CA. October 17, 2005.
18. "Surgical Aspects of Lung Transplantation. 1<sup>st</sup> Emory University End-Stage Lung Disease Conference. Program co-Chair. Emory Conference Center. November 5, 2005.
19. "Outcomes of Delayed Chest Closure Following Bilateral Lung Transplantation." Presented at the 52nd Annual Southern Thoracic Surgical Association Meeting. November 10-12, 2005 Orlando, FL, United States
20. "What's New in Lung Transplantation." International Transplant Nurses Society Meeting. Atlanta, GA. March 11, 2006.
21. "Invasive Staging in NSCLC." 4<sup>th</sup> Annual Atlanta Lung Cancer Symposium. Atlanta, GA. March 2006.
22. "VATS Sympathectomy" Cine Clinic. American College of Surgeons 92<sup>nd</sup> Annual Clinical Congress. Chicago, IL. Oct 2006.
23. "Management of Tracheobronchial Disease: Ablation Therapy." STS University/ STS. San Diego, CA. Jan 31, 2007.
24. "Management of Stage I Lung Cancer." Pulmonary Grand Rounds. Emory University Hospital. March 27, 2007.

## **National/International Invitations**

1. Co-chair Concurrent Session 21: Ischemia Reperfusion Injury. ISHLT 2007, San Francisco, CA.

## **Research**

Principle Investigator, Spiration Intra-Bronchial Valve Study. Emory Universtiy Site: Ongoing

## **GRANTS**

- 1991: Biomedical Research Support Grant
- 1992: Southern Medical Association Research Grant
- 1997-1999: Thoracic Surgery Foundation Research Fellowship