

CURRICULUM VITAE

BENJAMIN EARL HAITHCOCK, MD, FCCP

Office Address: Division of Cardiothoracic Surgery
3040 Burnett-Womack Building
Campus Box 7065
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina 27599-7065
Phone: (919) 966-3381
Fax: (919) 966-3475
E-mail: benjamin_haithcock@med.unc.edu

EDUCATION, TRAINING

7/2004-7/2007 Cardiothoracic Surgery Residency, University of North Carolina, Chapel Hill, North Carolina

7/2001-6/2002 Surgical Research Fellowship, Cardiovascular Laboratory, Henry Ford Hospital

7/1998-6/2004 General Surgery Residency, Henry Ford Hospital, Detroit, Michigan

8/1994-7/1998 M.D., Michigan State University-College of Human Medicine, East Lansing, Michigan

6/1993-6/1994 Post Baccalaureate Premedical Program. Michigan State University, East Lansing, Michigan

9/1989-5/1993 B.S., Chemistry, University of Michigan, Ann Arbor, Michigan

EMPLOYMENT

2008-present Surgical Director, Lung Transplant Program, UNC Hospitals, Chapel Hill, North Carolina

7/2007-present Assistant Professor of Surgery, Division of Cardiothoracic Surgery, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina

CERTIFICATIONS

6/6/2008-present American Board of Thoracic Surgery
6/2005-present Diplomate, American Board of Surgery
2004-present State of North Carolina - Medical License
2002-present State of Michigan - Medical License

CERTIFICATIONS (Continued)

4/2002 - present	Basic Life Support Training
3/2002 - present	Advanced Trauma Life Support Training
6/2002 - 6/2006	Advanced Trauma Life Support Training-Instructor
4/2002 - 4/2004	Advanced Cardiovascular Life Support

HONORS AND AWARDS

6/2004	Second Place, Henry Ford Hospital, Department of Surgery McClure Lecture Resident Research Competition
6/2003	First Place, Henry Ford Hospital, Department of Surgery McClure Lecture Resident Research Competition
5/2002	Charles G. Johnston Award in recognition of outstanding research presented by the Detroit Surgical Association
7/1995-7/1996	National Institute of Health Grant: National Institute of Neurological Disorders and Strokes, "Caprine β -Mannosidase: Sequencing of the cDNA and Identification of the Molecular Defect of Caprine β -Mannosidosis"
8/1994-7/1995	Minority Mentoring/Research Program Scholarship, Office of the Dean, Michigan State University- College of Human Medicine

BIBLIOGRAPHY

Book Chapters

Haithcock BE, Lewis MI, McKenna RJ, Feins RH. Pleural effusions and complications. IN: Lewis MI, McKenna RJ Jr., Falk JA, Chaux GE, eds., Medical Management of the Thoracic Surgery Patient. Philadelphia: Saunders Elsevier, 2010. pp. 420-431.

Haithcock BE, Feins RH. Complications of pulmonary resection. IN: Shields TW, LoCicero J, Reed CE, Feins RH, General Thoracic Surgery, 7th ed., Vol. I. New York: Lippincott Williams & Wilkins, 2009. pp. 557-559.

Original Research Articles

Tesche LJ, Feins RH, Dedmon MM, Newton KN, Egan TM, **Haithcock BE**, Veeramachaneni NK, Bowdish ME. Simulation experience enhances medical students' interest in cardiothoracic surgery. *Ann Thorac Surg* 2010 Dec; 90 (6):1967-73.

Saynak M, Hubbs J, Nam J, Marks LB, Feins RH, **Haithcock BE**, Veeramachaneni NK. Variability in defining T1N0 non-small cell lung cancer impacts locoregional failure and survival. *Ann Thorac Surg* 2010 Nov; 90(5):1645-9. Discussion 1649-50.

Jones LW, Watson D, Herndon JE 2nd, Eves NC, **Haithcock BE**, Loewen G, Kohman L. Peak oxygen consumption and long-term all-cause mortality in nonsmall cell lung cancer. *Cancer* 2010 Oct 15; 116(20):4825:32.

Socinski MA, Veeramachaneni NK, **Haithcock BE**. The many controversies of stage IIIA/IIIB lung cancer. *Oncology (Williston Park)* 2010 Mar; 24(3):256, 259.

Haithcock BE, Shepard AD, Raman SB, Conrad MF, Pandurangi K, Fanous NH. Activation of fibrinolytic pathways is associated with duration of supraceliac aortic cross-clamping. *J Vasc Surg* 2004 Aug;40(2):325-33.

Haithcock BE, Morita H, Fanous N, Suzuki G, Sabbah H. Hemodynamic unloading of the failing left ventricle using an arterial-to-arterial extracorporeal flow circuit. *Ann Thorac Surg* 2004 Jan;77(1):158-63.

Haithcock BE, Velanovich V. Comparison of antireflux surgery among ethnicity. *J Nat Med Assoc*, 2004 Apr; 96(4):535-541.

Carr JA, **Haithcock BE**, Paone G, Bernabei AF, Silverman NA. Long-term outcome after coronary artery bypass grafting in patients with severe left ventricular dysfunction. *Ann Thorac Surg* 2002 Nov; 74(5):1531-6.

Leipprandt JR, Kraemer SA, **Haithcock BE**, Chen H, Dyme JL, Cavanagh KT, Friderici KH, Jones MZ. Caprine beta-mannosidase: sequencing and characterization of the cDNA and identification of the molecular defect of caprine beta-mannosidosis. *Genomics* 1996 Oct 1; 37(1): 51-6.

Review Articles (Peer-Reviewed):

Goralski JL, Bromberg PA, **Haithcock BE**. Intrapleural hemorrhage after administration of tPA: a case report and review of the literature. (Review) *Ther Adv Respir Dis* 2009 Dec; 3(6):295-300.

Haithcock BE, Stinchcombe TE, Socinski MA. Treatment of surgically resectable non-small cell lung cancer in elderly patients. (Review) *Clin Lung Cancer* 2009 Nov;10(6):405-9.

Pipionis II, Carr JA, **Haithcock BE**, Anagnostopoulos PA, Dossa CD, Reddy DJ. Secondary aortoenteric fistula. (Review) *Ann Vasc Surg* 2000 Nov;14(6):688-96.

Published Abstracts (Peer-Reviewed):

Kohman L, Watson D, Herndon DJ, Eves N, **Haithcock B**, Loewen G, Jones L. CALGB 140803—Association between cardiorespiratory fitness and overall survival in operable lung cancer patients: Ancillary analysis of protocol 9238. ASCO Abstract 7518. *J Clin Oncol* 2009; 27:15s.

Haithcock BE, Morita H, Fanous NH, Brewer R, Sabbah HN. Hemodynamic unloading of the failing left ventricle with a femoral-to-femoral extracorporeal flow circuit. [Abstract] *Circulation* 2002; 106:II-432.

Fanous NH, Paone G, Morita H, Suzuki G, **Haithcock BE**, Sharov VG, Todor A, Brewer R, Sabbah HN. Reverse left ventricular remodeling with the Acorn Cardiac Support Device in dogs with advanced heart failure: A randomized, placebo controlled study. [Abstract] *Circulation* 2002; 106: II-550.

Haithcock BE, Leipprandt JR, Kraemer S, Cavanagh KT, Friderici K, Dyme JL, Chen H, Qiao XT, Jones MZ. Molecular sequencing of caprine β -Mannosidase cDNA. [Abstract] *Am J Hum Genetics*, 1995; 57(4)(suppl): A144.

In Press: Peer-Reviewed Original Research Articles:

Ben-Or S, Feins RH, Veeramachaneni NK, **Haithcock BE**. Effectiveness and risks associated with intrapleural alteplase via tube thoracostomy. *Ann Thorac Surg* 2011 (in press). (11 typed pages)

Unpublished Abstracts:

Tesche LJ, Feins RH, Dedmon M, Newton K, Egan TM, **Haithcock BE**, Veeramachaneni NK, Bowdish M. Simulator experience enhances medical students' interest in cardiothoracic surgery. Society of Thoracic Surgeons, Fort Lauderdale, FL. Jan 26, 2010.

Ben-Or S, Feins R, Veeramachaneni N, **Haithcock B**. Effectiveness and risk of complications associated with intrapleural Alteplase via tube thoracostomy. Southern Thoracic Surgical Association, Marco Island, FL, Nov. 6, 2009.

TEACHING ACTIVITIES

PRESENTATIONS

Grand Rounds, Division Conferences - UNC:

Haithcock BE. Mobilization of stomach for esophagectomy. Division of Cardiothoracic Surgery conference. UNC School of Medicine. Oct. 1, 2009.

Haithcock BE. Preoperative evaluation for pulmonary resection. Anesthesiology Grand Rounds, UNC School of Medicine, Chapel Hill, NC, April 1, 2009.

Haithcock BE. The role of minimally invasive surgery in early stage lung cancer. Surgery Grand Rounds, UNC, Chapel Hill, NC, May 14, 2008.

Haithcock BE. Surgery in lung cancer. UNC Radiation Oncology residents lecture. Chapel Hill, NC, Nov. 15, 2007.

Continuing Education Lectures – UNC:

Haithcock BE. The role of minimally invasive surgery in early stage lung cancer. 32nd Internal Medicine Conference, UNC, Chapel Hill, NC, April 20, 2008.

Other Presentations:

Haithcock BE. Disparities in the treatment of lung cancer. Lung Cancer Awareness Symposium, UNC Lineberger Cancer Research Center, Chapel Hill, NC, Nov. 17, 2008.

Haithcock BE. Knowing options may prevent deaths from lung cancer: Barriers to care faced by minorities. Interview at UNC with Dr. Haithcock and patient Glenda Frazier, broadcast on NBC 17 TV (Raleigh), Nov. 16, 2008. <http://tinyurl.com/657b3b>

Haithcock BE, Shepard AD, Raman SBK, Conrad MF, Pandurangi K, Fanous NH. Fibrinolysis after supraceliac aortic cross clamping is not secondary to intravascular thrombosis. (Oral presentation) Vascular 2004 - Society of Vascular Surgeons Annual Meeting, Anaheim, California June 3-6, 2004.

Haithcock BE, Shepard AD, Raman SBK, Conrad MF, Pandurangi K, Fanous NH. Fibrinolysis is associated with the duration of supraceliac aortic cross clamping. (Oral presentation) 20th Annual Meeting of the Midwestern Vascular Surgical Society, Chicago, Illinois, Sept. 18-20, 2003.

Haithcock BE, Shepard AD. Fibrinolysis is associated with the duration of supraceliac (SC) Aortic Cross Clamping (AXC). (Oral presentation) 50th Annual Meeting of the Michigan Chapter of the American College of Surgeons, Acme, Michigan, May 16, 2003.

Haithcock BE, Morita H, Fanous NH, Brewer R, Sabbah HN. Hemodynamic Unloading of the Failing Left Ventricle with a Femoral-to-Femoral Extracorporeal Flow Circuit. (Poster) American Heart Association Scientific Session 2002, Chicago Illinois, November 2002.

Haithcock BE, Morita H, Fanous N, Suzuki G, Sabbah H. Hemodynamic Unloading of the Failing Left Ventricle Using an Arterial-to-Arterial Extracorporeal Flow Circuit. (Oral presentation) Southern Thoracic Surgical Association - 49th Annual Meeting, Miami Beach, Florida, November 2002.

Haithcock BE, Velanovich V. Comparison of Antireflux Procedures Among Ethnicity. (Poster) 8th World Congress of Endoscopic Surgery, New York, New York, March 2002.

Haithcock BE, Fanous NH, Morita H, Suzuki G, Sabbah HN. Hemodynamic Unloading of the Failing Left Ventricle Using an Arterial-to-Arterial Extracorporeal Flow Circuit. (Oral presentation) Society of University Surgeons Residents' Conference, Honolulu, Hawaii, February 2002.

Haithcock BE, Leipprandt JR, Kraemer S, Cavanagh KT, Friderici K, Dyme JL, Chen H, Qiao XT, Jones MZ. Molecular sequencing of caprine β -Mannosidase cDNA. (Poster) American Society of Human Genetics - 45th Annual Meeting, Minneapolis, Minn., October 1995.

OTHER TEACHING

Lectures – UNC:

Swallowing disorders. MSIII Lecture Series, UNC School of Medicine, Chapel Hill, N.C.
8/20/2010, 6/18/2010, 10/16/2009, 7/31/2009, 5/29/2009, 2/20/2009, 7/25/2008, 6/20/2008,
4/25/2008, 2/8/2008, 10/5/2007

Lung nodule. MSIII Lecture Series. UNC School of Medicine, Chapel Hill, N.C. (Repeating)

Thoracic surgery simulation. UNC Medical Student Surgery Interest Group, UNC School of
Medicine, 2/21/2009

Clinical Teaching

Attending physician, UNC Division of Cardiothoracic Surgery. Supervise UNC resident
physicians, medical students during Multidisciplinary Thoracic Oncology Clinic, in operating
room at UNC Hospitals, and during hospital rounds and other treatment of patients. 2008-present

Preceptor

Venkataraman Ashok (2010-2011, 2009-2010)

Shadowing

Undergraduate pre-med student shadows: Shelly Ashley (2/22/08), Nikhil Patel (11/5/07-
12/10/07)

Other

Lung transplantation. Outreach presentation, Charlotte, NC, 4/28/2010

Lung transplantation. Outreach presentation, Greensboro, NC, 10/7/2009

Lung transplantation. Outreach presentation, Raleigh, NC, 10/15/2009

Faculty, Cardiac Surgery Simulatory Training and Vascular Anastomosis Skills, 2009
Cardiothoracic Surgery Resident Boot Camp sponsored by the Thoracic Surgery Directors
Association and Joint Council of Thoracic Surgery Education, Chapel Hill, NC, 7/31/09-8/2/09.

Intern Boot Camp, UNC Department of Surgery, 6/19-6/20/2008.

RESEARCH

Active Grants:

5UL1RR025747-02 (Runge, PI; Haithcock, PI for subgrant) **6/1/10-5/31/11** **No salary support**
 UNC Clinical and Translational Science Award, NIH 5/19/08-4/3/13 \$7,315,055
(Haithcock Large Pilot Grant: \$10,000)

Evaluation of swine transplanted lungs retrieved from brain death donors

Goal: Assist a new investigator with obtaining funding for an NIH Exploratory/Developmental Grant (R21) that will examine outcomes between donor lungs from brain dead animals and from NHBD animals whose lungs are assessed with ex vivo perfusion prior to transplant.

Role: PI for Large Pilot Grant

1 RC2 HL101641-01 (Egan, PI; Haithcock, co-inv.) **9/30/2009-8/31/2011** **0.6 calendar**
 National Institutes of Health/NHLBI (GO grant under ARRA) \$979,925

CTRIP Ex-vivo perfusion and ventilation of lungs to assess transplant suitability.

Goal: This 2-year Stage 1 project will perfect a technique to perfuse and ventilate human lungs outside the body (ex-vivo) to determine if they are suitable for transplant, and will demonstrate safety of transplanting human lungs after ex-vivo perfusion in a pilot clinical study. This project will also plan a large multi-center clinical trial to use this ex-vivo lung perfusion/ventilation system to evaluate human lungs retrieved after death from non-heart-beating donors.

Role: Co-Investigator

Completed Grant:

UL1RR025747 (Pisano, PI; Burker, PI-subgrant, Haithcock, co-inv.) **7/1/09-6/30/10** **0 calendar**
 UNC Clinical and Translational Science Award, NIH 5/19/08-4/3/13 \$7,315,055

From the community to the OR: EMS workers' knowledge of and attitudes toward heart-beating and non-heart-beating organ and tissue donation

Goals: 1) Assess knowledge of and attitudes about heart beating donor (HBD) and non-HBD organ and tissue donation among EMS personnel; 2) develop educational tool to inform EMS personnel about HBD and NHBD; and 3) assess impact of the educational intervention on EMS attitudes and knowledge.

Role: Co-investigator for subgrant

Clinical trial:

1/2008-present **CALGB 140503: A Phase III randomized trial of lobectomy versus sublobar resection for small (<2cm) peripheral non-small cell lung cancer.** Cancer and Leukemia Group B (CALGB). Role: Local PI. (No salary support)

Other Research – Completed:

9/2008-10/4/2010 UNC IRB Study #04-1431: Ex-vivo evaluation of human lungs from non-heart beating donors for transplant. Role: PI

- 7/2001-7/2002 Hemostatic Alterations Associated with Aortic Cross Clamping, Henry Ford Hospital, Mentor: Alexander D. Shepard, M.D.
- 7/2001-7/2002 Cardiovascular Research, Henry Ford Hospital, Mentor: Hani Sabbah, Ph.D.
- 10/1996-11/1996 Activated Protein C Resistance: Mutation or Polymorphism, Division of Thrombosis, Michigan State University, Mentor: Hourii Haussona, M.D., Ph.D.
- 8/1994-7/1996 Molecular Sequencing of Caprine β -Mannosidase cDNA, Department of Pathology, Michigan State University, Mentor: M.Z. Jones, M.D.
- 1/1991-8/1992 Influence of Diamagnetic Substituents on the Structure and Exchange Interaction of the R-Building Block of Hexagonal Ferrites. Department of Chemistry, University of Michigan-Ann Arbor, Michigan, Mentor: B.J. Evans, Ph.D.

PROFESSIONAL SERVICE

Service To Discipline

Journal of Thoracic and Cardiovascular Surgery – Reviewer, 2009-present

Cancer and Leukemia Group B (CALGB) – Thoracic subcommittee member, 2008-present

Journal of Heart and Lung Transplantation – Reviewer, 2008-present

Professional Memberships:

American College of Cardiology

American College of Surgeons

American College of Chest Physicians (Fellow)

Society of Thoracic Surgeons

American Medical Association

Cardiothoracic Surgery Network

Detroit Surgical Association

National Medical Association

Other Professional Service

UNC Hospitals:

Member, UNC Hospitals Ethics Committee, March 6, 2008 to present.

Surgical Director, Lung Transplant Program, UNC Hospitals, July 2007 to present.

UNC School of Medicine:

Cardiothoracic Surgery resident interviews, UNC Division of Cardiothoracic Surgery, 12/3/10, 11/19/10, 3/26/10, 1/16/10, 1/15/10, 12/12/09, 12/5/09, 3/20/09, 3/6/09, 2/20/09, 4/25/08, 4/4/08, 4/2/08, 3/28/08, 3/7/08.

Surgery resident interviews, UNC Department of Surgery, 1/8/2010, 1/11/08, 11/9/07

Career Goal Advisor, 2009-2010