CURRICULUM VITAE

BENJAMIN EARL HAITHCOCK, MD, FACS, FCCP
Assistant Professor of Surgery and Anesthesiology, University of North Carolina at Chapel Hill
Residency Program Director, UNC Division of Cardiothoracic Surgery
Surgical Director, UNC Hospitals Lung Transplant Program

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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

5/2013 – present	Residency Program Director, Division of Cardiothoracic Surgery, University of North Carolina at Chapel Hill, Chapel Hill, NC
10/2011 – present	Section Chief, Section of Thoracic Surgery, Division of Cardiothoracic Surgery, University of North Carolina at Chapel Hill, Chapel Hill, NC
10/2011 – present	Assistant Professor of Anesthesiology (joint appointment with Surgery), Department of Anesthesiology, UNC at Chapel Hill, Chapel Hill, NC
9/2011-5/2013	Associate Program Director for Thoracic Surgery, Division of Cardiothoracic Surgery, UNC at Chapel Hill, Chapel Hill, NC
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
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

5/2013	Winner, Friend of Nursing Award, UNC Hospitals, Chapel Hill, NC (honored as "an exceptional surgeon providing excellent patient care (who) serves as an outstanding role model for physicians and nurses")
4/2013	Honored as Pride of RPS: Living Legacies (alumni of Richmond, Va., Public Schools "who are leading extraordinary, honorable lives as inspirational leaders")
9/2012	Named to U.S. News and World Report's "Top Doctors" list.
7/2011	Named a "Top Regional Doctor" by Castle Connolly Medical Ltd.; honor is based on recommendations of peers and evaluation by a national research panel.
2/2011	Outstanding Service and Dedication to the Medical Profession and Local Community, Chapel Hill-Carrboro Area Alumnae Chapter, Delta Sigma Theta Sorority Inc.
6/2004	Second Place, McClure Lecture Resident Research Competition, Henry Ford Hospital, Department of Surgery, Detroit
6/2003	First Place, McClure Lecture Resident Research Competition, Henry Ford Hospital, Department of Surgery, Detroit
5/2002	Charles G. Johnston Award in recognition of outstanding research, presented by the Detroit Surgical Association
7/1995-7/1996	National Institutes 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, Feins RH. Pneumonectomy after Induction Therapy for Non Small Cell Lung Cancer. In: Ferguson M, ed., Difficult Decisions in Thoracic Surgery. Springer+Business Media, New York, 2014 (in press).

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

Joseph M, Jones T, Lutterbie Y, Maygarden SJ, Feins RH, **Haithcock BE**, Veeramachaneni NK. Rapid on-site pathologic evaluation does not increase the efficacy of endobronchial ultrasonographic biopsy for mediastinal staging. Ann Thorac Surg 2013 Aug; 96(2):403-10. PMID: 23731611

Wilkerson MD, Yin X, Walter V, Zhao N, Cabanski CR, Hayward MC, Miller CR, Socinski MA, Parsons AM, Thorne LB, **Haithcock BE,** Veeramachaneni NK, Funkhouser WK, Randell SH, Bernard PS, Perou CM, Hayes DN. Differential pathogenesis of lung adenocarcinoma subtypes involving sequence mutations, copy number, chromosomal instability, and methylation. PLoS One 2012; 7(5):e36530. (May 10, 2012) PMID: 22590557.

Stander SG, Arora H, **Haithcock B**, Kumar PA. Acute-onset dyspnea and superior vena cava syndrome during dialysis. J Cardiothorac Vasc Anesth 2012 Dec;26(6):1150-2. Epub ahead of print, Jan. 31, 2012. PMID: 22301381

Ben-Or S, Feins RH, Veeramachaneni NK, **Haithcock BE**. Effectiveness and risks associated with intrapleural alteplase by means of tube thoracostomy. Ann Thorac Surg. 2011 Mar; 91(3): 860-4. PMID: 21353015

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; discussion 1973-74. PMID: 21095347

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. PMID: 20971280

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. PMID: 20597134

Socinski MA, Veeramachaneni NK, **Haithcock BE**. The many controversies of stage IIIA/IIIB lunc cancer. Oncology (Williston Park) 2010 Mar; 24(3):256, 259. PMID: 20394137

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. PMID: 15297829

Haithcock BE, Morita H, Fanous NH, Suzuki G, Sabbah HN. Hemodynamic unloading of the failing left ventricle using an arterial-to-arterial extracorporeal flow circuit. Ann Thorac Surg 2004 Jan;77(1):158-63. PMID: 14726054

Haithcock B, Velanovich V. Comparison of antireflux surgery among ethnicity. J Nat Med Assoc, 2004 Apr; 96(4):535-541. PMID: 15101673

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. PMID: 12440604

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. PMID: 8921369

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. PMID: 19934281

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. PMID:19900857

Pipionis II, Carr JA, **Haithcock BE,** Anagnostopoulos PV, Dossa CD, Reddy DJ. Secondary aortoenteric fistula. (Review) Ann Vasc Surg 2000 Nov;14(6):688-96. PMID: 11128470

Published Abstracts (Peer-Reviewed):

Cotton T, **Haithcock B**, Joseph M. Poop in the pericardium: A review and case report of colopericardial fistulas. (Resident poster presentation – CHEST (American College of Chest Physicians), Fort Lauderdale, FL. Oct. 23, 2012.) Chest, 142(4):41A, 2012.

Joseph M, **Haithcock B.** Recurrent pneumonias in the setting of a large diaphragmatic hernia: The management and treatment dilemma of a gastropulmonary fistula. (Resident case report poster – CHEST (American College of Chest Physicians), Fort Lauderdale, FL, Oct. 23, 2012.) Chest, 142(4):41A, 2012.

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.

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. Interview: Diagnosis and treatment of esophageal cancer. WAUG-AM, Raleigh, NC, Jan. 5, 2012.

Haithcock BE. Surgical Treatment of COPD. Grand Rounds, Division of Pulmonary, Critical Care and Sleep Medicine, East Carolina University School of Medicine, Greenville, NC, Jan. 18, 2012.

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. (Repeating – quarterly)

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

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

Ashok Venkataraman (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 or 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

Grants:
Current:
1UM1HL113115-01A1 (Egan, PI) 9/1/2013-8/31/2016 0.6 calendar (5%)
NIH/NHLBI $632,242 direct costs (Year 1); $3,166,304 (total direct costs)
More and better lungs: Ex-vivo perfusion of lungs from non-heart-beating donors
This project seeks to show that lungs may be suitable for transplant after they are retrieved from people who died suddenly outside of the hospital or in an emergency room. Lungs will be removed after death and assessed for transplant suitability by ex-vivo perfusion.
Role: Investigator

Completed:
1 RC2 HL101641-01 (Egan, PI) 9/30/2009-12/31/2012 0.6 calendar (5%)
National Institutes of Health/NHLBI (GO grant under ARRA) $1,466,880 (total direct costs)
CTRIP Ex-vivo perfusion and ventilation of lungs to assess transplant suitability.
This 2-year Stage 1 project perfected 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: Investigator (Grant dates include one-year and four-month no cost extensions)

UL1RR025747 (Pisano, PI; Burker, PI-subgrant) 7/1/09-6/30/10 No salary support
UNC Clinical and Translational Science Award, NIH (5/19/08-4/3/13)
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:
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: Houri 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 Surgical Oncology – Reviewer, 2010-present

Annals of Thoracic Surgery – Reviewer, 2009-present

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, 2008-2011.

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

UNC School of Medicine:

Cardiothoracic Surgery resident interviews, UNC Division of Cardiothoracic Surgery. Most recent participation: December 2012, January 2013.

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

Career Goal Advisor, 2009-2010