

NIRMAL KUMAR VEERAMACHANENI, MD

Division of Cardiothoracic Surgery
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Education, Training	<p>Resident, Cardiothoracic Surgery 2006-08 Barnes Hospital Washington University in St. Louis</p> <p>Chief & Administrative Resident General Surgery 2005-06 Barnes Hospital Washington University in St. Louis</p> <p>Research Fellow/NIH Oncology Training Grant 2001-03 <i>Mentors: Jeffrey Drebin, MD, PhD & Richard Battafarano, MD, PhD</i> Department of Surgery Washington University in St. Louis</p> <p>Resident, General Surgery 2003-05 Barnes Hospital Washington University in St. Louis 2000-01</p> <p>Intern, General Surgery 1999-00 Barnes Hospital Washington University in St. Louis</p> <p>Independent Research <i>Mentors: Alden Harken, MD & Charles Cairns, MD</i> Department of Surgery University of Colorado Health Sciences Center Denver, Colorado</p> <p>NIH Summer Research Fellow 1996 <i>Mentors: Alden Harken, MD & Charles Cairns, MD</i> Department of Surgery University of Colorado Health Sciences Center Denver, Colorado</p> <p>Doctor of Medicine 1995-99 School of Medicine University of Colorado Health Sciences Center Denver, Colorado</p>
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Independent Research*Mentor: Ross Hardison, PhD*

Department of Biochemistry and Molecular Biology

Pennsylvania State University

University Park, Pennsylvania

1994-95

Bachelor of Science, High Distinction

Molecular and Cellular Biology

Pennsylvania State University

University Park, Pennsylvania

1993-95

**Professional
Experience****Assistant Professor of Surgery**

Division of Cardiothoracic Surgery

University of North Carolina at Chapel Hill

2008-present

**Teaching
Experience****Course Instructor***Surgery Clerkship – Introductory Skills Workshop*

Department of Surgery

Washington University in St. Louis

2001-06

Course Instructor*Introduction to Physical Diagnosis*

Department of Medicine

Washington University in St. Louis

2002-04

Teaching Assistant*General Inorganic Chemistry Laboratory*

Department of Chemistry

Colorado State University

Fort Collins, Colorado

1995

Licensure	State of Missouri State of North Carolina	
Certification	American Board of Thoracic Surgery Certified in thoracic surgery, 2009 American Board of Surgery Certified in the specialty of surgery, 2007	
Clinical Appointments	Thoracic Surgeon University of North Carolina Hospitals Chapel Hill, North Carolina	2008-Present
	Emergency Medicine Physician Christian Hospital, St. Louis, Missouri	2001-03
Honors	Alpha Omega Alpha <i>inducted in junior year at University of Colorado School of Medicine</i>	1998
	Golden Key National Honor Society <i>inducted in junior year at Penn State</i>	1994
	Alpha Epsilon Delta - Premedical Honor Society <i>inducted in junior year at Penn State</i>	1994
Awards and Distinctions	American Association of Thoracic Surgery Traveling Fellow American College of Surgeons National Finalist, Resident Award for Exemplary Teaching <i>for teaching and commitment to resident and medical student education</i>	2007 2006
	Eugene Bricker, MD Resident Teaching Award Department of Surgery, Washington University School of Medicine <i>given by residents for outstanding teaching by a Chief Resident</i>	2006
	Resident of the Year -- Teaching Award School of Medicine, Washington University School of Medicine <i>given by the Washington University School of Medicine Class of 2007 for contributions to medical student teaching</i>	2006
	Citation for Medical Student Teaching Department of Surgery, Washington University School of Medicine	2006
	Samuel A. Wells, Jr., MD Resident Research Award Department of Surgery, Washington University School of Medicine	2004

Caring Spirit Award Barnes-Jewish Hospital, St. Louis, Missouri <i>chosen by the staff of Barnes Hospital for exceptional care of patients and their families</i>	2003
Citation for Medical Student Teaching Department of Surgery, Washington University School of Medicine	2003
Citation for Medical Student Teaching Department of Surgery, Washington University School of Medicine	2002
George Packard Award School of Medicine, University of Colorado Health Sciences Center <i>for Outstanding Performance in Surgery</i>	1999
Achievement Rewards for College Scientists Foundation Scholar ARCS Foundation/University of Colorado Health Sciences Center <i>for research as a medical student</i>	1999
Robert Felix Award School of Medicine, University of Colorado Health Sciences Center <i>for Outstanding Performance in Psychiatry</i>	1998
David Talmage Award School of Medicine, University of Colorado Health Sciences Center <i>for Outstanding Performance in Microbiology & Immunology</i>	1997
Citation for Academic Excellence School of Medicine, University of Colorado Health Sciences Center	1997
Citation for Academic Excellence School of Medicine, University of Colorado Health Sciences Center	1996
Pennsylvania State University/Gerard A. Hauser Prize <i>for Excellence in Undergraduate Research</i>	1995
United States Senate/Barry M. Goldwater Scholarship Pennsylvania State University Nominee	1994
Westinghouse Science Talent Search - Semifinalist <i>for research work done as a high school student</i>	1993

Publications

Books, Book Chapters

- Veeramachaneni NK**, Meyers B: Lung Volume Reduction Procedures. In Little et al: *Complications in Cardiothoracic Surgery, 2nd Edition*. John Wiley & Sons, October 2009.
- Veeramachaneni NK**, Mackinnon SE, Patterson GA: Supraclavicular approach to thoracic outlet syndrome. In Sugarbaker et. al. *Adult Chest Surgery*. McGraw Hill Cos., June 2009.
- Veeramachaneni NK**, Meyers B: Lung Volume Reduction Surgery. In Pearson et. al: *Thoracic Surgery, Third Edition*. Churchill-Livingstone 2008
- Veeramachaneni NK**, Battafarano RJ: Open Drainage of the Chest. In Pearson et. al: *Thoracic Surgery, Third Edition*. Churchill-Livingstone 2008
- Veeramachaneni NK**, Battafarano RJ: Diagnostic Strategies for a Chest Wall Mass. In Pearson et. al: *Thoracic Surgery, Third Edition*. Churchill-Livingstone 2008
- Veeramachaneni NK**, Battafarano RJ: Prognostic Factors. In: Malignant Mesothelioma. In Gospodarowicz et. al.: *UICC Prognostic Factors in Cancer, Fourth Edition* John Wiley & Sons, 2006
- Veeramachaneni NK**, Battafarano RJ: Malignant Pericardial Effusions. In Ferguson MK: *Difficult Decisions in Thoracic Surgery*. Springer-Verlag, 2006
- Veeramachaneni NK**, Aft RL: Principles of Surgical Oncology. In Govindan R: *DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology Review. First Edition* Lippincott Williams & Wilkins, 2005
- Veeramachaneni NK**, Battafarano RJ: Thoracic Surgery. In Klingensmith ME et. al (Eds): *The Washington Manual of Surgery 4th Edition*. Lippincott Williams & Wilkins, 2005
- Veeramachaneni NK**, Linehan D: Pancreas. In Klingensmith ME et. al (Eds.): *The Washington Manual of Surgery 4th Edition*. Lippincott Williams & Wilkins, 2005
- Goodman J, **Veeramachaneni NK**, Winslow E (Eds.) *The Washington Manual: Surgery Survival Guide*. Lippincott Williams & Wilkins, 2003
- Goodman J, **Veeramachaneni NK**, Winslow E: Common Floor Calls., In: Layland MK, *The Washington Manual: Otolaryngology Survival Guide*. Lippincott Williams & Wilkins, 2003
- Shenoy S, Middleton WD, Windus DW, Vesely T, **Veeramachaneni NK**, Ramachandran V, Lowell JA, Howard TK: Brachial artery flow measurement

as an indicator of forearm native fistula maturation—early experience. In Henry ML, (Ed.): *Vascular Access for Hemodialysis – VII*. WL Gore & Associates, Inc., and Precept Press, 2001

Veeramachaneni NK, Cairns CB: Hyperkalemia. In Dart R et al (Eds.): *5 Minute Consult in Medical Toxicology*, Lippincott Williams & Wilkins, 2000

Chapters in Press **Veeramachaneni NK**, Feins RH: Esophageal Stents. In: Cameron et al., *Current Surgical Therapy*, 9th ed., 2010

Journal 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.

Saynak M, **Veeramachaneni NK**, Hubbs JL, Nam J, Qaqish BF, Bailey JE, Chung W, Marks LB. Local failure after complete resection of N0-1 non-small cell lung cancer. *Lung Cancer* 2010 (Epub ahead of print, July 7, 2010).

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

Veeramachaneni NK, Crabtree TD, Kreisel D, Zoole JB, Musick JF, Taylor NG, Krupnick AS, Gierada D, Patterson GA, Meyers BF. A thoracic surgery clinic dedicated to indeterminate pulmonary nodules – too many scans and too little pathology? *J Thorac Cardiovasc Surg* 2009 Jan; 137(1):30-35.

Denlinger CE, **Veeramachaneni N**, Krupnick AS, Patterson GA, Kreisel D. Nonoperative management of large tracheal injuries. *J Thorac Cardiovasc Surg* 2008 Sep; 136(3):782-3.

Veeramachaneni NK, Zoole JB, Decker P, Putnam JB, Meyers BF: Lymph node analysis in esophageal resection: American College of Surgeons Oncology Group Z0060 Trial. *Annals of Thoracic Surgery* 2008 Aug; 86(2):418-21.

Veeramachaneni NK, Battafarano RJ, Meyers BF, Zoole JB, Patterson GA: Risk factors for occult nodal metastasis in clinical T1N0 lung cancer: a negative impact on survival. *European Journal of Cardiothoracic Surgery*. 2008 Aug;33(3):466-469.

- Veeramachaneni NK**, Meyers B: Complications in patients with severe emphysema. *Seminars in Cardiothoracic Surgery*. 2007 Winter; 19(4):343-349.
- Veeramachaneni NK**, Meyers B. Surgical repair of iatrogenic cervical tracheal stenosis. *Operative Techniques in Cardiothoracic Surgery*. 2008;13(1):40-52.
- Schena S, **Veeramachaneni NK**, Bhalla S, Gutierrez F, Patterson GA, Kreisel D. Partial lobar torsion secondary to traumatic hemothorax. *Journal of Thoracic and Cardiovascular Surgery*. 2008 Jan;135(1):208-209.
- Meyers BF, Haddad F, Siegel BA, Zoole JB, Battafarano RJ, **Veeramachaneni NK**, Cooper JD, Patterson GA. Cost-effectiveness of routine mediastinoscopy in computed tomography- and positron emission tomography-screened patients with stage I lung cancer. *Journal of Thoracic and Cardiovascular Surgery*. 2006 Apr; 131(4):822-829.
- Canter RJ, Kesmodel SB, Heitjan DF, **Veeramachaneni NK**, Mokadam NA, Drebin JA, Fraker DL. Suppression of beta-catenin by antisense oligomers augments tumor response to isolated limb perfusion in a rodent model of adenomatous polyposis coli-mutant colon cancer. *Ann Surg Oncol*. 2005 Sep;12(9):733-42
- Veeramachaneni NK**, Kubokura H, Patterson GA, Drebin J, Battafarano R: Inhibition of esophageal cancer by down-regulation of beta catenin. *Journal of Thoracic and Cardiovascular Surgery*. 2004 Jan; 127(1):92-98.
- Veeramachaneni NK**, Harken AH, Cairns CB: Clinical implications of hemoglobin as a nitric oxide carrier. *Archives of Surgery* 1999 Apr;134:434-437.

Letters, Editorials Goodgame B, **Veeramachaneni N**, Patterson A, Govindan R. Tracheo-esophageal fistula with bevacizumab after mediastinal radiation. (Letter) *J Thorac Oncol* 2008; 3(9):1080-1.

Published Abstracts

- Veeramachaneni NK**, Lin L, Pippin JA, Winslow ER, Drebin JA: Doxycycline and indomethacin synergistically down-regulate beta-catenin signaling and inhibit colon cancer cell growth. *Journal of Surgical Research* 2003; 114(2):251-252.
- Veeramachaneni NK**, Ketcham E, Williams BT, Walther JM, Harken AH, Banerjee A, Cairns CB: Oxidative metabolism does not recover with reperfusion following global cerebral ischemia. *Academic Emergency Medicine* 1997;4(5):377-378.
- Williams BT, **Veeramachaneni NK**, Walther JM, Banerjee A, Harken AH, Cairns CB: Hepatic blood flow and oxidative metabolism is more sensitive to hemorrhagic shock than peripheral skeletal muscle. *Academic Emergency Medicine* 1997;4(5):381.

Cairns CB, **Veeramachaneni NK**, Walther JM, McIntyre R, Harken AH: Inhaled nitric oxide improves peripheral tissue oxygenation in patients with the acute respiratory distress syndrome. *Annals of Emergency Medicine* 1997;30(3):374.

Presentations

Abstracts:

- Xie L, Saynak M, Chiu W, Bailey JE, Fried DV, **Veeramachaneni N**, Hubbs JL, Feins RH, Qaquish BF, Marks LB. FDG-PET vs. histologic staging in the mediastinum in patients with pathologic N0-1 non-small cell lung cancer: What should be the gold standard? 2010 Chicago Multidisciplinary Symposium in Thoracic Oncology, December 2010.
- Saynak M, Hubbs J, Nam J, Marks L, Feins R, Haithcock B, **Veeramachaneni N**. Variability in defining T1N0 non-small cell lung cancer has consequences for locoregional failure. 56th Southern Thoracic Surgical Meeting, November 2009.
- Saynak M, **Veeramachaneni NK**, Hubbs JL, Nam J, Marks LB. Local failure after complete resection of early-stage non-small cell lung cancer: The potential role of post-op radiation therapy. ASTRO 2009.
- Veeramachaneni NK**, Zoole JB, Putnam JB, Meyers BF. Extent and Quality of Lymphadenectomy in Esophageal Cancer Resection – Review of the American College of Surgeons Oncology Group Z0060 Trial. *American College of Surgeons Oncology Group Annual Meeting*, Chicago IL, June 18-20, 2008
- Veeramachaneni NK**, Crabtree TD, Zoole JB, Musick J, Taylor N, Kreisel D, Krupnick AS, Patterson GA, BF Meyers. A thoracic clinic dedicated to solitary pulmonary nodules – too many scans and too little pathology? *American Association for Thoracic Surgery*, 88th Annual Meeting, San Diego, CA, May 12, 2008.
- Veeramachaneni NK**, Zoole JB, Putnam JB, Meyers BF. Extent and Quality of Lymphadenectomy in Esophageal Cancer Resection – Review of the American College of Surgeons Oncology Group Z0060 Trial. *Society of Thoracic Surgeons 44th Annual Meeting*, Fort Lauderdale, FL., Jan. 28-30, 2008.
- Meyers BF, **Veeramachaneni NK**, Battafarano RJ, Zoole JB, Patterson GA. Risk factors for occult nodal metastasis in clinical T1N0 lung cancer: impact on survival and selection of therapy. *Asian Society of Cardiovascular Surgery*, 17th Annual Meeting, 2007
- Veeramachaneni NK**, Nguyen K, Hornick J, Battafarano RJ: Systemic inhibition of beta catenin decreases the neoplastic transformation of the esophageal epithelium in a murine model of esophageal cancer. *American Association for Cancer Research*, 96th Annual Meeting, 2005
- Haddad FJ, Meyers BF, Zoole JB, **Veeramachaneni NK**, Battafarano RJ, Cooper JD, Siegel BA, Patterson GA: Should mediastinoscopy be routine for patients with clinical stage I lung cancer screened by CT and PET scans: a decision analysis. *American Association for Thoracic Surgery*, 85th Annual Meeting, 2005.

- Sayuk GS, **Veeramachaneni NK**, Prakash C: Small bowel diverticular bleeding: an infrequent cause of obscure overt gastrointestinal bleeding. *69th Annual Meeting of American Gastroenterology Association*, 2004.
- Kubokura H, **Veeramachaneni NK**, Nguyen V, Goedegebuure P, Battafarano RJ: Inhibition of esophageal cancer cell growth after CD40-ligand stimulation is associated with decreased beta-catenin and cyclinD1 expression and increased moesin expression. *Annual Meeting of American Association for Cancer Research*, 2004.
- Veeramachaneni NK**, Lin L, Pippin J, Winslow E, Drebin JA: Doxycycline and indomethacin synergistically down-regulate beta-catenin signaling and inhibit colon cancer cell growth. *37th Annual Meeting of Association of Academic Surgery*, 2003.
- Veeramachaneni NK**, Kubokura H, Patterson GA, Drebin J, Battafarano R: Inhibition of esophageal cancer by downregulation of beta catenin. *83rd Annual Meeting of American Association for Thoracic Surgery*, 2003.
- Veeramachaneni NK**, Pippin J, Mokadam N, Lin L, Winslow E, Drebin J: Protein kinase C mediated down-regulation of beta-catenin in colon cancer cells by doxycycline. *56th Annual Meeting of Society of Surgical Oncology*, 2003.
- Veeramachaneni NK**, Pippin J, Mokadam N, Lin L, Winslow E, Drebin J: Down-regulation of beta catenin expression and inhibition of colon cancer growth by doxycycline. *Annual Meeting of Society of University Surgeons*, 2003.
- Mukhopadhyay D, Jung J, Murmu N, Houchen C, Dieckgraefe B, Drebin J, **Veeramachaneni NK**, Henderson J, Anant S: Prostaglandin-mediated radioprotection of colon cancer occurs by inhibition of the RNA binding protein CUGBP2. *Annual Meeting of American Gastroenterological Association*, 2003.
- Veeramachaneni NK**: Oxidative metabolism does not recover with reperfusion following global cerebral ischemia. *Rocky Mountain Research Forum XXIII*: 25, 1997.
- Grand Rounds:** Lung cancer: Opportunities and challenges for the thoracic surgeon. UNC Department of Surgery Grand Rounds, Chapel Hill, NC, 10/27/2010
- Lecturer, weekly teaching conference. UNC Division of Pulmonology, Chapel Hill, NC. 3/12/2009
- Surgical treatment of esophageal cancer – there is room to improve. UNC Department of Surgery Grand Rounds, Chapel Hill, NC, 10/1/2008.
- Local:** Management of solitary pulmonary nodules, UNC MSIII lecture, Chapel Hill, NC. 11/26/2008 (Quarterly)

MSI anatomy course dissection lab, UNC School of Medicine, Chapel Hill, NC,
12/4/2008

Preceptor: Alex Fox (UNC medical student), 2009-2010 (submitting abstract to American Association of Thoracic Surgery on outcomes of wedge resections for lung cancer treatment)

Other: Mock Surgery Oral Exam, UNC Department of Surgery, Chapel Hill, NC, 11/19/2008

Research

Professional Service

National

Reviewer, Clinical Advances in Hematology and Oncology, 2008-09

Reviewer, Diseases of the Esophagus, 2008-09 (write monthly CME questions for journal)

Reviewer and CME writer, Journal of Thoracic and Cardiovascular Surgery, 2008-09 (Identified as a Top 10 reviewer in 2008)

UNC School of Medicine

Cardiothoracic Surgery Resident Interviews – 2/20/09, 3/6/09, 3/20/09

UNC Hospitals

Organized a new clinic for the surveillance of pulmonary indeterminate nodules; obtained financial commitment from UNC Hospitals for advanced NP. 2009