

Curriculum Vitae for Barry Thomas Hackshaw, MD

Desert Cardiology Consultants' Medical Group, Inc.

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EDUCATION:

M.D. 1974 Bowman Gray School of Medicine, Winston-Salem, North Carolina

B.S. 1970 Wake Forest University, Winston-Salem, North Carolina

POSTDOCTORAL TRAINING:

1989 Medical License, California (#C 42563)

1976-1978 Fellowship, Department of Cardiology, North Carolina Baptist Hospital
Winston-Salem, North Carolina

1975-1976 Residency, Internal Medicine, North Carolina Baptist Hospital
Winston-Salem, North Carolina

1974-1989 Medical License--North Carolina

1974-1975 Internship, Internal Medicine, North Carolina Baptist Hospital
Winston-Salem, North Carolina

SPECIALTY CERTIFICATION:

1979 Diplomate, American Board of Internal Medicine, Cardiovascular Disease

1977 Diplomate, American Board of Internal Medicine

EMPLOYMENT:

Academic Appointments:

1989-present Desert Cardiology Consultants' Medical Group, Inc.
Rancho Mirage, California

1985-1989 Associate Professor of Medicine, Department of Cardiology
Bowman Gray School of Medicine, Winston-Salem, North Carolina

1975-1985 Assistant Professor of Medicine, Department of Cardiology
Bowman Gray School of Medicine, Winston-Salem, North Carolina

1978-1979 Instructor, Department of Cardiology
Bowman Gray School of Medicine, Winston-Salem, North Carolina

Consultancies:

1986 How to Choose a Medical Specialty
W. B. Saunders Company, Philadelphia, Pennsylvania

Intramural:

1996 to Present Director, Cardiac Catheterization Laboratory
Eisenhower Medical Center, Rancho Mirage, California

1996–1997 Committee Member, Medical Executive Committee,
Eisenhower Medical Center, Rancho Mirage, California

1994-1995 Co-Director, Cardiac Catheterization Laboratory
Eisenhower Medical Center, Rancho Mirage, California

1991-1993 Chairman, Quality Assessment, Department of Medicine
Eisenhower Medical Center, Rancho Mirage, California

1986-1989 Associate Chief of Professional Service
North Carolina Baptist Hospital, Winston-Salem, North Carolina

1985-1989 Co-Director, Cardiac Transplantation
Bowman Gray School of Medicine, Winston-Salem, North Carolina

1979-1989 Director, Coronary Care Unit
North Carolina Baptist Hospital, Winston-Salem, North Carolina

1983-1986 Drug Information Service Advisory Committee
North Carolina Baptist Hospital, Winston-Salem, North Carolina

1980-1983 Medical Students Promotions Committee
North Carolina Baptist Hospital, Winston-Salem, North Carolina

1978-1986 Pharmacy and Therapeutics Committee
North Carolina Baptist Hospital, Winston-Salem, North Carolina

Extramural:

1990-1991 Board of Directors, Desert Division, American Heart Association (AHA)
Palm Desert, California

- 1992-1993 President, Desert Division, American Heart Association (AHA)
Palm Desert, California
- 1991-1993 Board of Directors, California Affiliate, American Heart Association (AHA)
- 1988-1989 Secretary, American Heart Association (AHA)
North Carolina Affiliate
- 1988-1989 Board of Directors, American Heart Association (AHA)
1985-1986 North Carolina Affiliate
- 1983-1986 Committee Member, Budget and Finance Committee
North Carolina Affiliate, American Heart Association (AHA)
- 1984-1985 President, Forsyth County Heart Association
1981-1982 Winston-Salem, North Carolina
- 1980-1981 Chairman, Medical and Community Programs Committee
Forsyth County Heart Association, Winston-Salem, North Carolina
- 1978-1981 Committee Member, City of Winston-Salem for Retirement of and
Disability of Firemen and Policemen, Winston-Salem, North Carolina

PROFESSIONAL MEMBERSHIPS:

- 1981 Elected Fellow, American College of Cardiology
Member, American Heart Association (AHA)
Member, American College of Physicians

PROFESSIONAL INTERESTS:

Transradial Coronary Angiography and Intervention
Acute myocardial infarction
Congestive heart failure
Cardiac transplantation

HONORS AND AWARDS:

1986 Silver Medallion--N.C. Heart Association
1983 Yearbook Dedication Class of 1983
1982 Gold Medallion-N.C. Heart Association
1981 Clinical Teaching Excellence Award
1980 & 1984 Distinguished Service Award—Forsyth County Heart Association
1979 Clinical Faculty Teaching Excellence

RESEARCH:

IMPACT A2a –Phase 3, parallel, double-blind, trial to examine inducible myocardial perfusion abnormality detection with BMS068645 and Adenosine stress single photon emission computed tomography compared to coronary angiography.

Bristol-Myers Squibb. 2005 - Ongoing. Principal Investigator.

RESTORE – Prospective registry of the effectiveness of CRT in subjects with heart failure-induced conduction disturbances.

Medtronic. 2002 - Ongoing. Principal Investigator.

ARRIVE 2 – Safety surveillance program designed to collect safety and clinical outcomes data in the real world setting in 100 consecutive patients who receive a TAXUS Express2 Paclitaxel-Eluting coronary stent system. Boston Scientific. 2004 - Ongoing . Co-Investigator.

PROVE IT – Randomized, double-blind study to demonstrate clinical equivalence of pravastatin and atorvastatin in reducing pts. at risk of future CV events, used in combination with gatifloxacin.

Bristol-Myers Squibb. 2001-2003. Principal Investigator.

SYNERGY – Prospective, randomized, open-label, study to evaluate the efficacy and safety of enoxaparin vs. UFH used with established therapy, including GP IIb/IIIa inhibitors and aspirin in high-risk patients presenting with hUSA or NSTEMI managed with an early invasive strategy. Aventis Pharmaceuticals. 2004. Principal Investigator.

Prevention of restenosis with Tranilast and its outcomes: A placebo-controlled trial.

Smith-Kline Beecham. 1999. Principal Investigator.

A study to compare the efficacy and safety of lipid modified-release formulation to Lopid immediate-release formulation in patients with type IIa hyperlipoproteinemia.

Parke- Davis. 1989. Principal Investigator.

Esophageal manometric abnormalities.

National Institute of Diabetes and Kidney Diseases. 1985. Principal Investigator.

A double-blind, randomized, parallel, controlled multi-clinic study of Lisinopril MK-521) vs. Captopril in patients with congestive heart failure. Merck Sharp Dohme. 1984. Principal Investigator.

A double-blind, placebo-controlled study to evaluate the effects of MK-421 in patients with chronic congestive heart failure. Merck Sharp Dohme. 1982. Principal Investigator.

Trasicor Protocol #55. Double-blind evaluation of Trasicor vs. Propranolol in treatment of cardiac arrhythmias. Ciba-Geigy. 1979. Principal Investigator.

LECTURES, SPEECHES, EXHIBITS, FILMS:

1999 Course Director, "The transradial approach for coronary angiography and interventions: A demonstration course." Annenberg Center for Health Sciences. Rancho Mirage, California.

1998 Course Director. "The transradial approach for coronary angiography and interventions: A demonstration course." Annenberg Center for Health Sciences. Rancho Mirage, California.

1986 "Chest Pain: A Cardiologist's Viewpoint." Southern Medical Association, Atlanta, Georgia, 1986.

1985 "Preoperative Evaluation of the Cardiac Patient." North Carolina Medical Society, Pinehurst, North Carolina, 1985.

1984 "Management of Acute Myocardial Ischemia," and "Vasodilator Therapy for Congestive Heart Failure." Sixth Annual Mountain Meeting, Asheville, North Carolina, 1984.

Taping Session of Cardiology for International Digest of Missionary Medicine of Cardiology.

1980 "Coronary Artery Bypass Surgery," North Carolina Medical Society, Pinehurst, North Carolina, 1980.

1979 "Evaluation and Medical Management of Angina Pectoris," and "Infective Endocarditis," First Annual Mountain Meeting, Asheville, North Carolina, 1979.

BIBLIOGRAPHY:

Chapter in Book:

- 1984 Richter JE, Wu WC, Blackwell JN, Johns DN, Hackshaw BT, Castell DO. The edrophonium response: Use in diagnosis and possible understanding mechanisms of esophageal chest pain. In: Roman C, ed. Gastrointestinal motility. Lancaster, England: MTP Press Limited, 1984:17-22.

Journal Articles

- 1992 Hackshaw, BT: Excluding heart disease in the patient with chest pain. American Journal Medicine 1992 May 27; 92(5A):465-515.
- Singh S, Richter JE, Hewson EG, Sinclair JW, Hackshaw BT. The contribution of gastroesophageal reflex to chest pain in patients with coronary artery disease. Ann. Intern. Med. 1992 Nov 15; 117(10):824-30
- 1990 Hewson EG, Dalton CB, Hackshaw BT, WaWc, Richter JE. The prevalence of abnormal esophageal test results in patients with cardiovascular disease and unexplained chest pain. Arch. Intern. Med. 1990 May;150(5):965-9.
- 1990 Hackshaw BT, Downes TD. Ventricular septal defects: diagnosis and management. Hospital Medicine 1990; 26:69-82.
- 1989 Giles TD, Katz R, Sullivan JM, Wolfson P, Haugland M, Kirlin P, Powers E, Rich S, Hackshaw B, Chiamaramida A, et al. Short and long-acting angiotensin-converting enzyme inhibitors: a randomized trial of lisinopril versus captopril in the treatment of congestive heart failure. The Multicenter Lisinopril-Captopril Congestive Heart Failure Study Group. J Am Coll Cardiol 1989; 13:1240-1247.
- Donofrio PD, Challa VR, Hackshaw BT, Miles SA, Cordell AR. Cardiac transplantation in a patient with muscular dystrophy and cardiomyopathy. Arch Neurol 1989; 46:705-707.
- 1989 Downes TR, Nomeir AM, Hackshaw BT, Kella LJ, Watts LE, Little WC. Diastolic mitral regurgitation in acute but not chronic aortic regurgitation: implications regarding the mechanism of mitral closure. Am Heart J 1989; 117:1106-1112.

- Tyson AA Jr., Hackshaw BT, Kutcher MA. Acute Epstein-Barr virus myocarditis simulating myocardial infarction with cardiogenic shock. *South Med J* 1989; 82:1184-1187.
- 1988 Thomas S, Nomeir A, Hackshaw B, Watts E. Right adrenal pheochromocytoma with inferior vena caval extension and associated cardiomyopathy. *Cardiovasc Ultrasonography* 1988; 7:229-232.
- 1987 Downes TR, Hackshaw BT, Kahl FR, Santamore WP, Little WC. Frequency of large V waves in the pulmonary artery wedge pressure in ventricular septal defect of acquired (during acute myocardial infarction) or congenital origin. *Am J Cardiol* 1987; 60:415-417.
- Powers ER, Chiaramida A, DeMaria AN, Giles TD, Hackshaw B, Hart W, Haugland M, Johnson R, Katz R, Kirlin P, et al. A double-blind comparison of lisinopril with captopril in patients with symptomatic congestive heart failure. *J Cardiovasc Pharmacol* 1987; 9 Suppl 3:582-88.
- Benjamin SB, Goff JS, Hackshaw BT. Chest pain: cardiac or esophageal? *Patient Care* 1987 Jul; 21:116-118,120,122-125,127-132.
- Ward BW, Wu WC, Richter JE, Hackshaw BT, Castell DO. Long-term follow-up of symptomatic status of patients with noncardiac chest pain: is diagnosis of esophageal etiology helpful? *Am J Gastroenterol* 1987; 82:215-218.
- 1985 Richter JE, Hackshaw BT, Wu WC, Castell DO. Edrophonium: A useful provocative test for esophageal chest pain. *Ann Intern Med* 1985; 103:14-21.
- 1984 Velasquez G, D'Souza VJ, Hackshaw BT, Glass TA, Formanek AG. Pheochromocytoma and cardiomyopathy. *Br J Radiol* 1984; 57:89-92.
- D'Souza VJ, Velasquez G, Kahl FR, Hackshaw BT, Amplatz K. Spasm of the aortocoronary vein graft. *Radiology* 1984; 151:83-84.
- 1983 Katz PO, Hackshaw BT, Barish CF, Powell BL. Venous thrombosis as a cause of superior vena cava syndrome. *Arch Intern Med* 1983; 143:1050-1052.
- 1982 Smuckler AL, Nomeir AM, Watts LE, Hackshaw BT. Aortic root dissection: another false positive echocardiographic diagnosis. *Chest* 1982; 82: 497-498.
- Smuckler AL, Nomeir AM, Watts LE, Hackshaw BT. Echocardiographic diagnosis of aortic root dissection by M-mode and two-dimensional techniques. *Am Heart J* 1982; 103:897-904.

- 1981 Kahl FR, Hackshaw BT, Headley RN. Coronary artery thrombus: rapid resolution shown by serial coronary arteriography. *South Med J* 1981; 74:751-752.
- 1980 Wakat MA, Chilton H, Hackshaw BT, Cowan RJ, Ball JD, Watson NE. comparison of Tc--99m pyrophosphate and TC--99m hydroxymethylene diphosphonate in acute myocardial infarction:concise communication. *J Nucl Med* 1980; 21: 203-206.
- 1979 Kelly RJ, Chilton H, Hackshaw BT, Ball JD, Watson NE, Kahl FR, Cowan FJ. Comparison of Tc--99m pyrophosphate and Tc--99m methylene diphosphonate in acute myocardial infarction: concise communication. *J Nucl Med* 1979; 20:402-406.
- 1977 Anderson SG, Hackshaw BT, Still JG, Greiss FC. Uterine blood flow and its distribution after chronic estrogen and progesterone administration. *Am J Obstet Gynecol* 1977; 127:138-142.
- 1974 Anderson SG, Hackshaw BT. The effect of estrogen on uterine blood flow and its distribution in nonpregnant ewes. *Am J Obstet Gynecol* 1974; 119:58-595.

Abstracts:

- 1989 Turner SA, Rufty AJ, Hackshaw BT, Applegate R, Little WC. Myocardial infarction as the presenting manifestation of coronary artery disease. *Clin Res* 1989; 37:303A.
- 1988 Hewson EG, Sinclair JW, Wu WC, Hackshaw BT, Richter JE. The usefulness of 24-hour esophageal pH monitoring in undiagnosed chest pain. *Am J Gastroenterol* 1988; 83:1021.
- Downes TR, Kellam L, Nomeir A, Watts E, Hackshaw BT, Little WC. Diastolic mitral regurgitation as a Doppler indicator of acute aortic regurgitation. *Clin Res* 1988; 36:272A.
- Hewson EG, Dalton CB, Hackshaw BT, Wu WC, Castell DO, Richter JE. The prevalence of abnormal esophageal tests in patients with cardiovascular disease and unexplained chest pain. *Gastroenterology* 1988; 94:A184.
- Applegate R, Santamore W, Kahl F, Kutcher M, Hackshaw B, Little W. Quantitative assessment of progression of coronary artery ectasia. *Clin Res* 1988; 86:1A.
- Mumma M, Downes TR, Kutcher MA, Kahl FR, Hackshaw BT, Little WC. Preferential location of right coronary artery occlusions. *Clin Res* 1988; 36:33A.

- Downes TR, Kellam L, Nomeir AM, Watts E, Hackshaw BT, Little WC. Differentiation of acute from chronic aortic regurgitation using cardiac Doppler. Clin Res 1988; 36:31A.
- Gwinn NS, Kutcher MA, Burrows MT, Kahl FR, Hackshaw BT, Little WC. Myocardial infarction late after coronary artery bypass surgery: progression of native vessel disease versus graft failure. Clin Res 1988; 36:32A.
- 1987 Donofrio PD, Challa VR, Hackshaw BT. Myocardial pathology in a patient with Becker's muscular dystrophy undergoing cardiac transplantation. Neurology 1987; 37 (suppl 1):197.
- Downes TR, Hackshaw BT, Santamore WP, Kahl FR, Little WC. Large V waves in the pulmonary capillary wedge pressure in acute ventricular septal defect without mitral regurgitation. Clin Res 1987; 35:34A.
- 1986 Ward BW, Wu WC, Richter JE, Hackshaw BT, Castell DO. Importance of identifying specific diagnosis of non-cardiac chest pain. South Med J 1986; 79:(S)16.
- Giles TD, Chiaramida A, DeMaria A, Hackshaw B, Hart W, Haugland M, Johnson R, Katz R, Kirilin P, McCall M, Mohiuddin S, Powers E, Richs, Sullivan J, Wolfson P, Snapinn S, Gibson T, Fisher M. A comparison of lisinopril and captopril in congestive heart failure. Circulation 1986; 74 (suppl II):11-39.
- Katz PO, Dalton CB, Castell DO, Hackshaw BT, Wu WC, Richter JE. Esophageal testing (ET) in patients with non-cardiac chest pain (NCCP). A three-year experience in 910 patients (PTS). Clin Res 1986; 34:370A.
- 1985 Hackshaw BT, Siler GL. The effect of edrophonium on the coronary arteries. Circulation 1985; 72 (suppl III):III-459.
- Wise CM, Semble EL, Hackshaw BT, Wu WC, Castell DO. Musculoskeletal and esophageal origin of chest pain in patients with suspected coronary artery disease. Clin Res 1985; 33:795A.
- Ward BW, Wu WC, Richter JE, Hackshaw BT, Castell DO. Non-cardiac chest pain: is diagnosis of esophageal etiology helpful. Gastroenterology 1985; 88:1627.
- 1984 Wu WC, Hackshaw BT, Richter JE, Castell DO. Esophageal manometry with provocative testing in patients with non-cardiac chest pain. Dig Dis Sci 1984; 29:546.

Wu WC, Hackshaw BT, Richter JE, Castell DO. Esophageal manometry with provocative testing in patients with non-cardiac chest pain. *Gastroenterology* 1984; 86:1303.

Richter JE, Wu WC, Hackshaw BT, Johns DN, Castell DO. The edrophonium (E) response: use in diagnosis and possible understanding of mechanisms of esophageal chest pain. *Clin Res* 1984; 32:490A.

Hackshaw BT, Wu WC, Richter JE, Castell DO. Is the esophagus causing chest pain? Provocative testing during manometry provides clues. *Clin Res* 1984; 32:281A.

1983 Richter JE, Blackwell JN, Wu WC, Johns DN, Hackshaw BT, Castell DO. The edrophonium (E) response: use in diagnosis and possible understanding of mechanism of esophageal chest pain. *Clin Res* 1983; 31:837A.

Richter JE, Wu WC, Blackwell JN, Johns DN, Hackshaw BT, Castell DO. The edrophonium (E) response: use in diagnosis and possible understanding of mechanism of esophageal chest pain. *Gastroenterology* 1983; 84(Part 2):1285.

1982 Hackshaw BT, Wu WC, Smuckler AL, Kahl FR, Rufty AJ, Nelson JL. Esophageal motility disorders in patients with chest pain and normal coronary arteries. *Clin Res* 1982; 30:867A.

Wu WC, Hackshaw BT, Nelson JL, Smuckler AL, Rocamora LR, Kahl FR, Rufty AJ. Esophageal motility disorders in patients with angina-like chest pain and normal coronary arteriogram. *Gastroenterology* 1982 82:1214.

1979 Wakat MA, Chilton HM, Hackshaw BT, Cowan RJ, Ball JC, Watson NE Jr. Comparison of Tc-99m pyrophosphate and Tc-99m hydroxymethylene diphosphonate in acute myocardial infarction. In: *Continuing education lectures, 1979: nuclear medicine techniques, indications and applications; proceedings of the 20th annual meeting*. Atlanta: Southeastern Chapter, Society of Nuclear Medicine, 1979:10.

Miscellaneous

1984 Hackshaw BT, Myocardial infarctions and serum enzymes. *Clin Chem* 184; 30:1285. (Editorial).