

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Davis, Roger	POSITION TITLE Biostatistician		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Rochester, Rochester, NY	B.A.	1975	Statistics/Math
University of Rochester, Rochester NY	M.A.	1978	Statistics
Harvard School of Public Health, Boston MA	Sc.D.	1988	Biostatistics

A. Positions and Honors.**Positions and Employment**

1979-1988	Statistician	Dana-Farber Cancer Institute and Department of Biostatistics, Harvard School of Public Health
1988-1990	Lecturer on Biostatistics	Harvard School of Public Health
1990-1998	Assistant Professor of Biostatistics	Harvard School of Public Health
1992-1998	Assistant Professor of Medicine	Harvard Medical School
1992-	Biostatistician	Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center (Boston)
1998-	Associate Professor of Biostatistics	Harvard School of Public Health
1998-	Associate Professor of Medicine	Harvard Medical School

Other Experience and Professional Memberships

1989-1990	Coordinating Statistician, Cancer and Leukemia Group B
1988-1992	Senior Biostatistician and Opportunistic Infections Head, Statistical and Data Analysis Center, NIH AIDS Clinical Trials Group
1991-1992	Director, Biostatistics Consulting Laboratory, Harvard School of Public Health
1995-1999	Scientific Abstract Review Committee, Society of General Internal Medicine
2000-2002	NIMH Grant Review Committee, Special Emphasis on AIDS Panel
2000-2003	NCI Grant Review/Site Visit Panel, Cancer Epidemiology, Prevention and Control

B. Selected peer-reviewed publications (in chronological order, from 207 publications).

- Davis RB, Van Echo DA, Leone LA, Henderson ES. Phase II trial of mitoxantrone in advanced primary liver cancer: A CALGB study. *Cancer Treat Rep* 1986; 70:1125-6.
- Davis RB, Anderson JR. Exponential survival trees. *Stat Med* 1989; 8:947-61.
- Davis RB. Sample size considerations. In, *A Compendium of Statistical Terms and Procedures Used in Cancer Clinical Trials*, JR Anderson and K Propert, eds. *Advances in Oncology* 1989; 5:7-28.
- Byar DP, Schoenfeld DA, Green SB, Amato D, Davis RB, DeGruttola V, Finkelstein DM, Gatsonis C, Gelber R, Lagakos S, Lefkopoulou M, Tsiatis AA, Zelen M, Peto J, Freedman LS, Gail M, Simon R, Ellenberg S, Anderson J, Collins R, Peto R, Peto T. Design considerations for AIDS trials. *N Engl J Med* 1990; 323:1343-8.
- Safrin S, Crumpacker C, Chatis P, Davis R, Hafner R, Rush J, Landry B, Mills J. Treatment of acyclovir-resistant mucocutaneous herpes simplex infection in patients with AIDS: A randomized multicenter study of foscarnet versus vidarabine. *N Engl J Med* 1991; 325:551-5.
- Mayer RJ, Davis RB, Schiffer CA, Berg DT, Powell BL, Schulman P, Omura GA, Moore JO, McIntyre OR, Frei E. Intensive postremission chemotherapy in adults with acute myeloid leukemia. *N Engl J Med* 1994; 331:896-903.
- Davis RB. Resampling: A good tool, no panacea. [Editorial] *MD Comput* 1995; 12:89-91.

8. Davis RB, Iezzoni LI, Phillips RS, Reiley P, Coffman GA, Safran C. Predicting in-hospital mortality: The importance of functional status information. *Med Care* 1995; 33:906-21.
9. Eisenberg DM, Davis RB, Ettner SL, Appel S, Wilkey S, Van Rompay M, Kessler RC. Trends in alternative medicine use in the United States 1990-1997: results of a follow-up national survey. *JAMA* 1998; 280:1569-75.
10. Parker RA, Davis RB. Evaluating whether a binary decision rule operates better than chance. *Biometrical J* 1999; 41:25-31.
11. Weil E, Wachterman M, McCarthy EP, Davis RB, O'Day B, Iezzoni LI, Wee CC. Obesity among adults with disabilities. *JAMA* 2002; 288:1265-8.
12. McCarthy EP, Burns RB, Ngo-Metzger Q, Davis RB, Phillips RS. Hospice utilization among Medicare managed care and fee-for-service patients dying with cancer. *JAMA* 2003; 289:2238-45.
13. Murkofsky RL, Phillips RS, McCarthy E, Davis RB, Hamel MB. Length of stay in home care before and after the 1997 balanced budget act. *JAMA* 2003; 289:2841-8.
14. Saper RB, Kales SN, Paquin J, Burns MJ, Eisenberg DM, Davis RB, Phillips RS. Heavy metal content of Ayurvedic herbal medicine products. *JAMA* 2004; 292:2868-73.
15. Yeh GY, Wood MJ, Lorell BH, Stevenson LW, Eisenberg DM, Wayne PM, Goldberger AL, Davis RB, Phillips RS. Effects of Tai Chi mind-body movement therapy on functional status and exercise capacity in patients with chronic heart failure: a randomized controlled trial. *Am J Med* 2004; 117:541-8.
16. Kaptchuk TJ, Stason WB, Davis RB, Legedza ATR, Schnyer RN, Kerr CE, Stone DA, Nam BH, Kirsch I, Goldman RH. Sham device versus inert pill: a randomized controlled trial comparing two placebo treatments for arm pain due to repetitive strain injury. *BMJ* 2006; 332:391-7.
17. Tindle HA, Shiffman S, Davis RB, Barbeau EM, Kawachi I, Rigotti NA. Cessation among smokers who used 'light' cigarettes: results of the 2000 National Health Interview Survey. *Am J Public Health* 2006; 96:1498-504.
18. Bassin EB, Wypij D, Davis RB, Mittleman MA. Age-specific fluoride exposure in drinking water and osteosarcoma (United States). *Cancer Causes Control* 2006;17:421-8.
19. Yeh GY, Davis RB, Phillips RS. Use of complementary therapies in patients with cardiovascular disease. *Am J Cardiol* 2006; 98:673-80.
20. Kwong RY, Chan AK, Brown KA, Chan CW, Reynolds HG, Tsang S, Davis RB. Impact of unrecognized myocardial scar detected by cardiac magnetic resonance imaging on event-free survival in patients presenting with signs or symptoms of coronary artery disease. *Circulation* 2006; 113:2733-43.
21. Davis RB, Mukamal KJ. Hypothesis testing: means. *Circulation* 2006; 114:1078-82.
22. Conboy LA, Wasserman RH, Jacobson EE, Davis RB, Legedza ATR, Park M, Rivers A, Morey EB, Nam BH, Lasagna L, Kirsch I, Lembo AJ, Kaptchuk TJ, Kerr CE. Investigating placebo effects in irritable bowel syndrome: a novel research design. *Contemp Clin Trials* 2006; 27:123-34.
23. Buettner C, Phillips RS, Davis RB, Gardiner P, Mittleman MA. Use of dietary supplements among US adults with coronary artery disease and atherosclerotic risks. *Am J Cardiol* 2007; 99:661-6.
24. Smetana GW, Landon BE, Bindman AB, Burstin H, Davis RB, Tjia J, Rich EC. A comparison of outcomes resulting from generalist versus specialist care for a single discrete medical condition: a systematic review and methodologic critique. *Arch Intern Med* 2007; 167:10-20.
25. Eisenberg DM, Post DE, Davis RB, Connelly MT, Legedza ATR, Hrbek AL, Prosser LA, Buring JE, Inui TS, Cherkin DC. Addition of choice of complementary therapies to usual care for acute low back pain: a randomized controlled trial. *Spine* 2007; 32:151-8.
26. Wayne PM, Kiel DP, Krebs DE, Davis RB, Savetsky-German J, Connelly M, Buring JE. The effects of Tai Chi on bone mineral density in postmenopausal women: a systematic review. *Arch Phys Med Rehabil* 2007; 88:673-80.
27. Durant RW, Davis RB, St. George DMM, Williams IC, Blumenthal C, Corbie-Smith GM. Participation in research studies: factors associated with failing to meet minority recruitment goals. In press, *Ann Epidemiol*.
28. Yeh GY, Mietus JE, Peng C-K, Phillips RS, Davis RB, Goldberger AL, Thomas RJ. Enhancement of sleep stability with Tai Chi exercise in patients with chronic heart failure. In press, *Sleep Med*.
29. Wayne PM, Pensack LM, Connors EM, Buring JE, Davis RB, Schachter SC, Hrbek A, Kaptchuk TJ, Andrews SM. Increasing research capacity at the New England School of Acupuncture: building grants management infrastructure as an NCCAM-funded Developmental Center for Research in Complementary and Alternative Medicine. In press, *Altern Ther Health Med*.

30. Wayne PM, Buring JE, Connors EM, Davis RB, Andrews SM, St. John M, Conboy L, Kerr C, Kaptchuk TJ, Schachter SC. Increasing research capacity at the New England School of Acupuncture through NCCAM-supported faculty and student research training initiatives. In press, Altern Ther Health Med.

C. Research Support

Ongoing Research Support

K24 AT000589 (Phillips)

NCCAM

Research and Mentorship in Alternative Medicine

9/01/2006-8/31/2011

The goal is to support mentoring for young investigators training to perform patient-oriented research and to prepare these trainees for careers as independent investigators in patient-oriented alternative medicine research.

Role: Co-Investigator/Biostatistician

R01 AT002454 (Phillips)

NCCAM

Tai Chi Mind-Body Therapy for Chronic Heart Failure

10/12/2004-9/30/2008

The proposed research will help define the role of Tai Chi in current heart failure management, further our understanding of the mechanism of action, and provide preliminary analyses of the costs and benefits of treatment.

Role: Co-investigator/Biostatistician

R21 AG027549-01 (Marcantonio)

NIH/NIA

Donepezil-enhanced management of delirium in aged hip fracture patients 9/1/2006 - 8/31/2008

This is a NIH Exploratory/Development Research Grant proposal to enroll 40 hip fracture patients aged 70 and older in a pilot double-masked randomized trial. All subjects will receive proactive multifactorial geriatrics consultation and our trial will test whether the addition of donepezil results in enhanced prevention and treatment of delirium symptoms.

Role: Co-Investigator/Biostatistician

R21 AG026566-01A1 (Marcantonio)

NIH/NIA

Caregiver-based intervention for persistent delirium

9/15/2006 - 9/30/2008

This is a NIH Exploratory/Development Research Grant proposal to conduct a 15-month pilot randomized trial of a Caregiver-based Intervention for Persistent Delirium (CIPD) that will enroll 48 patient-caregiver dyads.

Role: Co-Investigator/Biostatistician

R01 DK071083-01 (Wee)

NIH/NIDDK

Race and Health Outcomes Associated with Obesity

3/1/2006 - 2/28/2010

Using data from 3 national databases -the Medicare Current Beneficiary Survey (MCBS), National Health and Nutrition Examination Survey (NHANES), and Medical Expenditures Panel Survey (MEPS)- this study will examine the interplay of race and body mass index (BMI) as they relate to 4 important outcomes: 1) mortality; 2) cardiovascular risk factors; 3) delays in diagnosis and treatment of cardiovascular risk factors; and 4) healthcare expenditures.

Role: Co-Investigator/Biostatistician

R01 LM008255 (Slack)

National Library of Medicine

Cybermedicine for the Patient and Physician

2/1/2005-1/31/2008

The goal is to implement and evaluate an Internet-based tool for interviewing primary care patients and incorporating the information into the patient's electronic medical record.

Role: Co-Investigator/Biostatistician

R01 CA1000029 (Iezzoni)

NCI

Cancer Care and Outcomes for Disabled Medicare Patients 9/1/2003-8/31/2007

This project will use data from SEER cancer registries merged with information from Medicare claims to describe cancer diagnoses, treatments, palliative care, longevity, and costs to Medicare for beneficiaries with disabilities.

Role: Co-Investigator/Biostatistician

R01 CA116465-01 (Rofsky)

NIH/NCI

Characterization of Prostate Cancer with 3T MR 12/1/2006 - 11/30/2010

Our long-term goal is to provide a non-invasive, pre-treatment evaluation of patients with prostate cancer that can more fully characterize the disease to assist clinicians in their efforts to more objectively and rationally select appropriate treatments.

Role: Co-Investigator/Biostatistician

R01 DK073302-01 (Wee)

NIH/NIDDK

Understanding How Patients Value Bariatric Surgery 7/1/2007 - 6/30/2012

The goal of this project is to examine patients' motivations and expectations for weight loss surgery and to examine how patients value surgery and its associated outcomes. In doing so, this project aims to better understand the decision-making process that patients undergo in contemplating weight loss surgery and to better identify subgroups of patients who will derive the greatest value from surgery.

Role: Co-Investigator/Biostatistician

7R21AT003503-02 (Wayne)

NIH/NCCAM

Tai Chi for Osteopenic Women 12/1/2006 - 8/31/2009

This pilot randomized controlled trial will assess the efficacy of Tai Chi as an adjunct to standard care for post-menopausal osteopenic women. Forty-eight osteopenic women ages 45-65 will be recruited from a large multi-specialty group practice.

Role: Co-Investigator/Biostatistician

1R21CA116271-01A1 (Hatabu)

NIH/NCI

Dynamic Contrast-enhanced MRI of Pulmonary Nodule at 3T 9/29/2006 - 8/31/2008

The aim of this proposal is to develop and test dynamic contrast-enhanced MRI of pulmonary nodule at 3T to characterize suspicious lung nodules.

Role: Co-Investigator/Biostatistician

Completed Research Support

NESA-Harvard Acupuncture Research Collaborative (Wayne) 9/25/2003-5/31/2007

U19 AT002022 NCCAM

As a Developmental Center for Research in Complementary and Alternative Medicine (DCRC), the New England School of Acupuncture (NESA)-Harvard Acupuncture Research Collaborative brought together leaders from the oriental medicine (OM) and conventional medicine communities to critically evaluate the efficacy and safety of acupuncture, and develop sound methodologies and feasible study designs required for acupuncture research.

Role: Core Leader