

**Harvard Medical School
CURRICULUM VITAE**

Date Prepared: January 6, 2014

Name: Roger B. Davis, ScD

Education:

1975	BA, Statistics/Mathematics, University of Rochester, Rochester, NY
1978	MA, Statistics, University of Rochester, Rochester, NY
1988	ScD, Biostatistics, Harvard School of Public Health

Faculty Academic Appointments:

7/1988-6/1990	Lecturer on Biostatistics, Department of Biostatistics, Harvard School of Public Health
7/1990-6/1998	Assistant Professor, Department of Biostatistics, Harvard School of Public Health
10/1992-3/1998	Assistant Professor of Medicine (Biostatistics), Harvard Medical School
4/1998-	Associate Professor of Medicine (Biostatistics), Harvard Medical School
7/1998-	Associate Professor, Department of Biostatistics, Harvard School of Public Health

Appointments at Hospitals/Affiliated Institution:

Past:

10/1979-2/1988	Statistician, Division of Biostatistics and Epidemiology, Dana Farber Cancer Institute and Department of Biostatistics, Harvard School of Public Health
10/1992-9/1996	Research Associate in Medicine, Beth Israel Hospital

Current:

10/1996-	Research Associate in Medicine, Beth Israel Deaconess Medical Center
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Major Administrative Leadership Positions:

Local:

1989-1991	Course Director, Biostatistics 213: Vital and Health Statistics Department of Biostatistics, Harvard School of Public Health
1991-1992	Director, Biostatistics Consulting Laboratory, Department of Biostatistics, Harvard School of Public Health
1991-1992	Course Director, Biostatistics 312: Statistical Consulting, Department

of Biostatistics, Harvard School of Public Health

1995- Course Director, Biostatistics 224: Survival Methods in Clinical Research, Harvard School of Public Health

1996-2002 Senior Biostatistician, Center for Alternative Medicine Research and Education, Division of General Medicine and Primary Care Beth Israel Deaconess Medical Center

2002-2006 Clinical Research Overseer, Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center

2002-2010 Director of Biostatistics, Division for Research and Education in Complementary and Integrative Medical Therapies, Harvard Medical School

2002- Site Co-Director, Faculty Development and Fellowship Program in General Internal Medicine, Beth Israel Deaconess Medical Center and Harvard Medical School

2002- Co-Director, Faculty Development and Fellowship Program in General Complementary and Alternative Medicine, Beth Israel Deaconess Medical Center and Harvard Medical School

2011- Director of Biostatistics, Program in Placebo Studies and the Therapeutic Encounter, Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center

National:

1979-1983 Biostatistician, Radiation Therapy Oncology Group

1982-1990 Biostatistician, Cancer and Leukemia Group B

1989-1990 Coordinating Statistician

1988-1992 Senior Biostatistician and Opportunistic Infections Section Head, Statistical and Data Analysis Center, National Institutes of Health (NIH), AIDS Clinical Trials Group

2007 Precourse Director, Intro to Survival Analysis: Statistical Analysis for Time to Event Data, Society of General Internal Medicine Annual National Meeting, Toronto, Canada

Committee Service:

Local:

1988-2007 Admissions Committee, Department of Biostatistics, Harvard School of Public Health

1988-1989 Seminar Committee, Department of Biostatistics, Harvard School of Public Health

1991-1992 Student Advising Committee, Department of Biostatistics, Harvard School of Public Health

1992-1993 Doctoral Research Committee, Kiyoun Lee, Department of Environmental Health, Harvard School of Public Health

1996-2008 Admissions Committee, Program in Clinical Effectiveness, Harvard School of Public Health

1999- Research Faculty Search Committee, Division of General Medicine and Primary Care, Beth Israel Deaconess Medical Center
 2002-2003 Clinical Research Strategy Committee, Department of Medicine Beth Israel Deaconess Medical Center
 2002-2003 Biostatistician Search Committee, General Clinical Research Center (GCRC), Beth Israel Deaconess Medical Center
 2002-2010 Research Steering Committee, Osher Research Center, Harvard Medical School
 2007 Director, Tai Chi Research Search Committee, Division for Research and Education in Complementary and Integrative Medical Therapies, Harvard Medical School
 2007-2010 Career Development Committee, Division for Research and Education in Complementary and Integrative Medical Therapies Harvard Medical School
 2009-2010 Chair
 2007- Distinguished Alumni Award Committee, Department of Biostatistics, Harvard School of Public Health
 2011 Masters Thesis Committee, Hasmik Alvrtsyan, Department of Biostatistics, Harvard School of Public Health
 2011- Data and Safety Monitor, "Structural, Functional, and Behavioral Effects of Meditation," R01AT006344
 2012- Data and Safety Monitoring Board, "Tai Chi for Treating Major Depressive Disorder in Underserved Chinese Americans" R21 AT006123

Regional:

2001-2002 Doctoral Research Committee, Paul L. Desmarais, School of Nursing, University of Massachusetts Lowell

National:

1979-1983 Neutron Therapy Committee, Radiation Therapy Oncology Group
 1982-1990 Leukemia Committee, Cancer and Leukemia Group B
 1983-1990 Group Chairman's Core Committee, Cancer and Leukemia Group B
 1983-1990 Publications Committee, Cancer and Leukemia Group B
 1984-1990 Data Audit Committee, Cancer and Leukemia Group B
 1984-1990 Immunology and Genetics Committee, Cancer and Leukemia Group B
 1988-1992 Co-Chair, Study Design Review Committee, AIDS Clinical Trials Group Statistical and Data Analysis Center
 1988-1992 Analysis Review Committee, AIDS Clinical Trials Group Statistical and Data Analysis Center
 2001-2004 Scientific Review Committee, International Scientific Conference on Complementary and Alternative Medical Research
 2001-2002 Chairman, Executive Committee, Stop Hypertension with Acupuncture Research Program (SHARP) Trial, National Center for Complementary and Alternative Medicine
 2004 Osher Awards Selection Committee, International Scientific Conference on Complementary and Alternative Medical Research

2005-2007 Scientific Advisory Board, Thomas Hartman Foundation Cold Spring Harbor Laboratory Parkinson's Research Partnership
 2006-2008 Data and Safety Monitoring Board, "Flavocoxid: A Medical Food Therapy for Osteoarthritis," National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), R41AR51232

International:

2010- Data and Safety Monitoring Board, "Linkage & Retention: A Randomized Trial to Optimize HIV/TB Care in South Africa" R01MH090326

Professional Societies:

1979- American Statistical Association, Member
 1980- Biometric Society (ENAR), Member
 1993-2011 Society of General Internal Medicine
 1995-2000 Member, Research Abstract Review Committee

Grant Review Activities:

2002-2010 Pilot Grant Review Committee, Osher Research Center Harvard Medical School
 2000-2002 Ad hoc Grant Review Committee, AIDS Centers Core Grants National Institute of Mental Health (NIMH)
 2000-2003 Prevention and Control Grant Review/Site Visit Panel, Cancer Epidemiology, National Cancer Institute (NCI)
 2012 Ad hoc Reviewer, Dean's Pilot Grant Program for Collaborative/Interdisciplinary Research University of Nebraska Medical Center

Editorial Boards:

Ad hoc Reviewer:

1983 International Journal of Radiation Oncology, Biology and Physics
 1985 European Journal of Cancer and Clinical Oncology
 1987 Journal of Clinical Oncology
 1988 Hepatology
 1988-1992 Blood
 1990 Biometrics
 1993-1994 Journal of the American Statistical Association
 1994 Computational Statistics and Data Analysis
 1994-1995 MD Computing
 1995- New England Journal of Medicine
 2005 Ambulatory Pediatrics
 2006- Journal of the National Medical Association
 2008 Journal of Clinical Epidemiology
 2010 International Journal of Medical Informatics
 2013 PLOS One

Other Editorial Roles:

1995-2001	Editorial Board, MD Computing
1996-2000	Statistical Reviewer, Journal of Clinical Oncology
2004-	Statistical Reviewer, Circulation
2004-2009	Statistical Reviewer, BioMed Central
2009-	Editorial Board, Circulation
2009-	Editorial Board, Circulation: Arrhythmia and Electrophysiology
2009-	Editorial Board, Circulation: Cardiovascular Genetics
2009-	Editorial Board, Circulation: Cardiovascular Imaging
2009-	Editorial Board, Circulation: Cardiovascular Interventions
2009-	Editorial Board, Circulation: Heart Failure

Honors and Prizes:

1971-1975	National Merit Scholarship
1974-1975	Mason E. Wescott Scholarship, American Society for Quality Control
1975	BA with High Distinction in Statistics, University of Rochester
2002	Peter Reizenstein Prize, awarded for the best paper published in The International Journal for Quality in Health Care in 2001

REPORT OF FUNDED AND UNFUNDED PROJECTS**Funding Information:**Past Funding:

1979-1982	<i>Statistical Coordinating Center, Radiation Therapy Oncology Group</i> National Cancer Institute (NCI), R10 CA025287 Co-Investigator/Biostatistician Provided statistical support for the design, conduct, monitoring, analysis and reporting of national cooperative group clinical trials conducted by RTOG.
1980-1981	<i>Clinical Trials Course Development</i> W.K. Kellogg Foundation Research Assistant Developed curriculum and materials for a course on the principles of clinical trials at Harvard School of Public Health.
1982-1989	<i>Cancer and Leukemia Group B Statistical Center</i> National Cancer Institute (NCI), U10 CA033601 Co-Investigator/Biostatistician Provided statistical support for the design, conduct, monitoring, analysis and reporting of national cooperative group clinical trials conducted by CALGB.
1988-1992	<i>AIDS Clinical Trials Group Statistical and Data Analysis Center</i>

- National Institute of Allergy and Infectious Diseases (NIAID)
N01 AI095030
Co-Investigator/Biostatistician
Provided statistical support for the design, conduct, monitoring, analysis and reporting of national cooperative group clinical trials conducted by ACTG.
- 1992-1994 *Knowledge-Based Medical Records for Patients with HIV Infections*
National Library of Medicine (NLM)/National Institutes of Health (NIH), R01 HS006288
Co-Investigator/Biostatistician
Developed a knowledge-based medical record to improve the care of HIV-positive patients, and conducted a trial of computer-generated alerts to improve physician compliance with practice guidelines.
- 1994-1996 *Screening Inpatient Quality Using Post-Discharge Events*
Agency for Healthcare Research and Quality (AHRQ)
R01 HS008248
Co-Investigator/Biostatistician
Developed computer algorithms to screen hospitals for sub-standard care based on post-discharge events identified using administrative data.
- 1994-1998 *Project to Validate the Complications Screening Program*
Health Care Financing Administration (HCFA), 500-94-0055
Co-Investigator/Biostatistician
Conducted analyses to evaluate the validity of the CSP as a tool for measuring the quality of hospital care.
- 1995-1998 *Screening Quality of Care using Administrative Data*
Agency for Healthcare Research and Quality (AHRQ)
R01 HS009099
Co-Investigator/Biostatistician
Examined whether the coding of diagnoses and procedures in hospital discharge abstracts are complete and accurate and if the hospitals identified by the Complications Screening Program have systematic problems with quality of care.
- 1995-2000 *Center to Assess Alternative Therapy for Chronic Illness*
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), U24 AR043441
Co-Investigator/Biostatistician
Developed clinical trials to evaluate alternative therapies for low back pain. Identified methodological issues in conducting studies of placebo.
- 1995-2000 *Outcomes and Costs of Invasive Therapies for the Elderly*
National Institute on Aging (NIA), K08 AG000755
Co-Investigator/Biostatistician
Evaluated how older age influences patient outcomes and physicians' decisions regarding the use of invasive and expensive therapies. Evaluated the cost-effectiveness of selected major

- medical interventions for elderly patients
- 1996-1998 *Follow-up Survey to the National Survey of Non-Conventional Medical Practices*
Fetzer Foundation #1108
Co-Investigator/Biostatistician
Conducted a nationally-representative survey of the use of complementary and alternative medical therapy in the US.
- 1996-1999 *Applications for the National Information Infrastructure*
National Library of Medicine (NLM)/National Institutes of Health (NIH), N01 LM063535
Co-Investigator/Biostatistician
Developed a telematics program to provide educational and emotional support to families of high risk newborns both during their hospitalization and following discharge.
- 1997-1999 *Effects of Age on Resource Use, Clinical Decisions and Cost-Effectiveness of Treatments*
Robert Wood Johnson Foundation (RWJF), 031083
Co-Investigator/Biostatistician
Using data from the SUPPORT study, evaluated the whether age is a determinant of resource use, clinical decisions and cost-effectiveness of treatments in seriously ill patients.
- 1998-2003 *Patterns of Care for Cancer Patients at End of Life*
National Cancer Institute (NCI), R29CA 79052-01
Co-Investigator/Biostatistician
Described the dying experience of cancer patients, focusing on specific types of care, the resources consumed, and whether that care complies with the patient's preferences.
- 1999-2002 *Usual Care vs. Choice of Alternative Treatment for Low Back Pain*
National Center for Complementary and Alternative Medicine (NCCAM), R01AT 00144-01
Co-Investigator/Biostatistician
Conducted a randomized clinical trial comparing usual care plus access to complementary treatment to usual care alone for the treatment of acute low back pain.
- 1999-2002 *Quality of Health Care for People with Disabilities*
US Department of Education, Catalog of Federal Domestic Assistance (CFDA), 84.133G
Co-Investigator/Biostatistician
Evaluated quality of care for individuals with disabilities relative to those without disabilities.

- 1999-2002 *Assessing the Performance of Alternative Risk Adjusters*
Agency for Healthcare Research and Quality (AHRQ)
R01 HS10152-01
Co-Investigator/Biostatistician
Examined the performance of four leading risk adjustment methodologies for both payment and performance measurement.
- 1999-2002 *A Patient-Centered Quality Measure for Asian-Americans*
Agency for Healthcare Research and Quality (AHRQ)
R01 HS10316-01
Co-Investigator/Biostatistician
Developed a questionnaire and conducted a survey of Chinese and Vietnamese patients in 10 health centers nationwide to evaluate quality of care for patients at risk due to language, cultural and other barriers.
- 2000-2004 *Sham Device, Pill Placebo or Treatment for Arm Pain*
National Center for Complementary and Alternative Medicine (NCCAM) R01 AT00402
Co-Investigator/Biostatistician
Conducted a randomized clinical trial to compare magnitude of the placebo effect for two modalities of placebo treatment, sham acupuncture and a placebo pill, in patients with repetitive strain injuries of the arm.
- 2000-2004 *Physical CAM Therapies for Chronic Low Back Pain*
National Center for Complementary and Alternative Medicine (NCCAM), R01 AT00622
Co-Investigator/Biostatistician
Conducted a pilot randomized clinical trial comparing acupuncture, chiropractic, massage and usual care for patients with chronic low back pain.
- 2001-2003 *Relaxation-Related Therapies for Chronic Back Pain*
National Center for Complementary and Alternative Medicine (NCCAM), R01 AT00606
Co-Investigator
Conducted a pilot randomized clinical trial comparing tai chi, massage and meditation for patients with chronic low back pain.
- 2001-2003 *Disparities in Care: Obesity and Cancer Screening*
Agency for Healthcare Research and Quality (AHRQ)
R03 HS11683
Co-Investigator
Compared screening rates for colon, prostate, breast and cervical cancer between persons with and without obesity.

- 2001-2005 *Model of Integrative Care in an Academic Health Center*
 National Center for Complementary and Alternative Medicine (NCCAM), R01 AT000905
 Co-Investigator/Biostatistician
 Conducted a pilot randomized clinical trial to evaluate an integrated care clinic for treating patients disabled by low back pain.
- 2001-2006 *Partnering with Patients to Find Adverse Events*
 Agency for Healthcare Research and Quality (AHRQ)
 K08 HS11644
 Co-Investigator
 Evaluated patients' ability to identify medical errors and adverse events and linked patient satisfaction with complication rates.
- 2001-2012 *Research and Mentorship in Alternative Medicine*
 National Center for Complementary and Alternative Medicine (NCCAM), K24 AT000589
 Co-Investigator/Biostatistician
 Support mentoring for investigators training to perform patient-oriented research; prepare these trainees for careers as independent investigators in patient-oriented alternative medicine research.
- 2003-2004 *Improving Medication Safety in Primary Care: A Randomized, Controlled Trial of Interventions to Improve Patient-Physician Communication*
 Risk Management Foundation (RMF)
 Co-Investigator/Biostatistician
 Conducted a randomized clinical trial to determine whether measures to improve communication between patients and their doctors can reduce adverse drug events.
- 2003-2004 *Preventing Procedural Errors: Creation and Evaluation of an Inpatient Procedure Service*
 Risk Management Foundation (RMF)
 Co-Investigator/Biostatistician
 Developed an inpatient procedure service and evaluated whether it resulted in reduction of procedural errors.
- 2003-2005 *Cancer Care and Outcomes for Disabled Medicare Patients*
 National Cancer Institute (NCI), R01 CA1000029
 Co-Investigator/Biostatistician
 Described cancer diagnoses, initial treatments, palliative care, longevity and costs to Medicare among older and younger Medicare beneficiaries with disabilities.
- 2003-2010 *NESA-Harvard Acupuncture Research Collaborative*
 National Center for Complementary and Alternative Medicine (NCCAM), U19 AT002022
 Core Leader
 This cooperative agreement was collaboration brought together leaders in Oriental Medicine and conventional medicine to critically evaluate the efficacy, safety and underlying mechanisms of Oriental

Medicine interventions.

- 2004-2006 *How Access Affects Outcomes of Rehabilitational Service*
National Institute of Child Health and Human Development (NICHD), R01 HD043913
Co-Investigator/Biostatistician
Examined the association between the intensity of physical therapy and occupational therapy services and likelihood of good outcomes, including lower rates of self-reported functional decline.
- 2004-2006 *Massage for Hospitalized Patients with Metastatic Cancer*
National Cancer Institute (NCI), R21CA 098487
Co-Investigator/Biostatistician
Conducted a pilot randomized controlled trial of massage for patients with metastatic cancer.
- 2004-2006 *Improving Chronic Disease Care with PatientSite*
Robert Wood Johnson Foundation (RWJF), 051757
Co-Investigator/Biostatistician
Evaluated whether interventions delivered through an internet patient portal can improve the care of patients with chronic disease.
- 2004-2006 *Enhancing the Placebo Effect in Irritable Bowel Syndrome*
National Center for Complementary and Alternative Medicine (NCCAM), R01 AT001414
Co-Investigator/Biostatistician
Conducted a randomized clinical trial in patients with irritable bowel syndrome to study the placebo effect elicited in different patient-practitioner contexts.
- 2004-2008 *Tai Chi Mind-Body Therapy for Chronic Heart Failure*
National Center for Complementary and Alternative Medicine (NCCAM), R01 AT002454
Co-Investigator/Biostatistician
Conducted a randomized clinical trial comparing a tai chi exercise program to educational attention control for patients with stable heart failure.
- 2004-2010 *Tai Chi Mind-Body Therapy for Chronic Heart Failure*
National Center for Complementary and Alternative Medicine (NCCAM), R01 AT002454
Co-Investigator/Biostatistician
The proposed research helped to define the role of Tai Chi in current heart failure management, furthered our understanding of the mechanism of action, and provided preliminary analyses of the costs and benefits of treatment.
- 2005-2009 *Cybermedicine for the Patient and Physician*
National Library of Medicine (NLM)/National Institutes of Health (NIH), R01 LM0088255
Co-Investigator/Biostatistician
Developed a web-based interactive interview to obtain medical

histories of patients and conducted a pilot trial of the interview.

- 2006-2008 *Characterization of Prostate Cancer with 3T MR*
 National Cancer Institute (NCI), R01 CA116465
 Co-Investigator/Biostatistician
 Evaluated a non-invasive, pre-treatment 3T MR scan of patients with prostate cancer to characterize the disease.
- 2006-2008 *Dynamic Contrast-enhanced MRI of Pulmonary Nodule at 3T*
 National Cancer Institute (NCI), R21 CA116271
 Co-Investigator/Biostatistician
 Evaluated 3T MR perfusion method with parametric analysis as a second-stage characterization tool of solitary pulmonary nodules.
- 2006-2009 *Race and Health Outcomes Associated with Obesity*
 National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), R01 DK071083
 Co-Investigator/Biostatistician
 Using data from three national databases -the Medicare Current Beneficiary Survey (MCBS), National Health and Nutrition Examination Survey (NHANES) and Medical Expenditures Panel Survey (MEPS) - this study examined 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.
- 2006-2010 *Tai Chi for Osteopenic Women*
 National Center for Complementary and Alternative Medicine (NCCAM), R21 AT003503
 Co-Investigator/Biostatistician
 This pilot randomized controlled trial assessed the efficacy of Tai Chi as an adjunct to standard care for post-menopausal, osteopenic women. Eighty-six osteopenic women ages 45-65 were recruited from a large multi-specialty group practice.
- 2006-2010 *Donepezil-Enhanced Management of Delirium in Aged Hip Fracture Patients*
 National Institute on Aging (NIA), R21 AG027549
 Co-Investigator/Biostatistician
 The goal of this project was to conduct a pilot randomized placebo controlled trial of donepezil, a commonly used treatment for dementia, to determine if it can prevent or treat symptoms of delirium in hip fracture patients.
- 2006-2010 *Caregiver-Based Intervention for Persistent Delirium*
 National Institute on Aging (NIA), R21 AG026566
 Co-Investigator/Biostatistician
 The goal of this project was to develop and test an innovative intervention empowering family caregivers of patients affected by

persistent symptoms of delirium.

- 2007-2013 *Understanding How Patients Value Bariatric Surgery*
National Institute of Diabetes and Digestive and Kidney Diseases
(NIDDK), R01 DK073302
Co-Investigator/Biostatistician
Study a racially diverse cohort of 650 bariatric surgery patients and a cross-sectional sample of 600 primary care patients from the community to: understand the value patients associate with weight loss and surgical outcomes; identify patients' perceptions of bariatric surgery and the factors they consider in deciding whether to undergo weight loss surgery; and identify patients who derive greater value from surgery and potential factors and barriers that might explain current observed racial variation in the use of bariatric surgery.
- 2008-2011 *Acupuncture for Dysphagia after Chemoradiation for Head and Neck Cancer*
National Center for Complementary and Alternative Medicine (NCCAM), K01 AT004415
Co-Investigator/Biostatistician
This clinical research project evaluated the effects of acupuncture on dysphagia following chemoradiation therapy in patients with head and neck cancer.
- 2008-2011 *Melanin Concentrating Hormone as a Novel Mediator of Intestinal Inflammation*
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), R01 DK080058
Co-Investigator/Biostatistician
Experiments outlined in this proposal aimed to uncover the mechanisms by which MCH mediates intestinal inflammation and tested an MCH antagonist as a novel approach to treat IBD and perhaps additional inflammatory conditions.
- 2009-2010 *A Computer-Based General Medical Interview for Patients*
RX Foundation
Co-Investigator/Biostatistician
The long-range goal of our research with patient-computer dialogue was to provide, for use in multiple clinical settings, economically feasible, interactive, computer-based, health-related interviews that have been demonstrated by experimental trials to be of benefit both to patients and their doctors in the process of health care delivery.
- 2009-2012 *Effectiveness of Acupuncture in the Treatment of Gulf War syndrome*
US Department of Defense (US DOD), W81XWH0920064
Co-Investigator/Biostatistician
The goal of this study is to conduct a clinical trial evaluating acupuncture as a treatment for Gulf War syndrome.

- 2010-2011 *Computer-Based Patient-Computer Dialogue for Patient History*
RX Foundation
Co-Investigator/Biostatistician
The goal of our research was to further develop computer-based interviews to obtain medical histories from patients and provide summaries for caregivers.
- 2010-2013 *Harvard Clinical and Translational Science Center*
National Center for Research Resources (NCRR), UL1 RR025758
Biostatistician
The goals of this program are to provide enriched resources to educate and develop the next generation of researchers trained in the complexities of translating research discoveries into clinical trials and ultimately into practice. Design new and improved clinical research informatics tools for analyzing research data and managing clinical trials. Support outreach to underserved populations, local community and advocacy organizations and health care providers. Assemble multidisciplinary teams and forge new partnerships with private and public health care organizations.
- 2010-2013 *Tai Chi, Physiologic Complexity and Healthy Aging*
National Center for Complementary and Alternative Medicine (NCCAM), R21 AT005501
Co-Investigator/Biostatistician
To evaluate Tai Chi's effect on age-related loss of complexity, we propose a two-arm prospective randomized clinical trial. Our goals are to evaluate if six months of Tai Chi training, compared to a waitlist control receiving standard medical care, can enhance physiological complexity and adaptability in older Tai Chi-naive adults, and to characterize the relationship between complexity biomarkers, measures of function, and resilience.
- 2010-2013 *Ambulatory Monitoring of Near Falls: A Novel Measure of Fall Risk*
National Institute on Aging (NIA), R21AG034227
Co-Investigator/Biostatistician
We will obtain measurements in a gait laboratory of 30 older adults with a history of multiple falls, 30 age-matched controls and 10 patients with Parkinson's disease with a history of recurrent falls. We will assess which methods optimally detect near falls (NF) and the association between NF and laboratory-based measures.
- 2010-2013 *Consuming Digital Crumbs from an Electronic Health Record to Improve Care*
National Library of Medicine (NLM)/National Institutes of Health (NIH), G08LM010703-01
Co-Investigator/Biostatistician

We will develop tools and methods to visualize care networks across acute care and ambulatory settings and use these tools to create and apply network analytic metrics to understand the relationship between care team assembly and resulting structure and health outcomes.

2012-2013 *Mid-Career Mentoring Award for Patient-Oriented Research in Aging*
National Institute on Aging (NIA), K24 AG035075-01A1
Biostatistician
The Specific Aims of this Mid-career Investigator Award in Patient-Oriented Research (POR) are to continue to build a research program around improving the quality and outcomes of care for hospitalized older adults with delirium. This objective will be accomplished through the currently funded R01 entitled 3D-CAM: Deriving and validating a 3-Minute Diagnostic Assessment for Delirium, and my new research, a Biomarker Discovery for Delirium project described in this application.

Current Funding:

2008-2014 *Structural Integration for Chronic Low Back Pain*
National Center for Complementary and Alternative Medicine (NCCAM), K01 AT004916
Co-Investigator/Biostatistician
This training program includes the supervised conduct of a pilot clinical trial of Structural Integration (SI) (a CAM manual therapy) plus usual care *versus* usual care alone, for chronic low back pain that includes an embedded mechanistic pilot trial.

2009-2014 *Physiology of Mind-Body Therapies: Meditative Breathing and Autonomic Adaptations*
National Center for Complementary and Alternative Medicine (NCCAM), K23 AT005104
Co-Investigator/Biostatistician
The goal of this study is to categorize the acute and long-term effects of mind-body slow breathing (MBSB) upon autonomic activity.

2010-2015 *Clinical and Autonomic Effects of Mind-Body Exercise in COPD*
National Center for Complementary and Alternative Medicine (NCCAM), R01 AT005436
Co-Investigator/Biostatistician
We propose a three-arm randomized controlled trial to evaluate the benefits of tai chi exercise (which includes mind-body breathing) versus seated mind-body breathing alone (an isolated, key component of the comprehensive tai chi program) versus education control. This design will allow us to examine the individual efficacy of each mind-body intervention on clinical outcomes in COPD, but will also allow clinical and physiological comparisons between the two interventions, providing insight into the components and mechanisms of mind-body therapies.

- 2010-2015 *Use and Effectiveness of a Model Integrative Care Clinic in an Academic Hospital*
National Center for Complementary and Alternative Medicine (NCCAM), R01 AT005065
Co-Investigator/Biostatistician
The goal of this study is to characterize the early evolution of referral and practice patterns and to evaluate various aspects of communication and decision-making surrounding the use of conventional and CAM therapies in real world settings; and to provide important observational evidence concerning the effectiveness of an integrative care team with respect to relevant clinical outcomes for a serious and disabling condition, chronic low back pain.
- 2012-2014 *The Relationship Between Obesity and Falling in Older Adults*
National Institute on Aging (NIA), R21 AG040848
Co-Investigator/Biostatistician
The proposed work will prospectively examine the relationship between obesity and risk of falls in older adults. We will then examine whether there are clinical factors that might explain the relationship between obesity and risk of falls. Finally, we will study whether health care costs related to fall injuries differ in the obese vs. the non-obese.
- 2012-2014 Effect of CoQ10 on Mild-to-Moderate Muscle Symptoms of Statin Users
National Center for Complementary and Alternative Medicine (NCCAM), K23AT055664
Co-Investigator/Biostatistician
The goal of this grant is to provide protected support for the investigator in their career development. The research focus on this project is the relationship between coenzyme Q10 and the improvement of muscle symptoms for patients on statin users.
- 2012-2016 *Dynamic markers of intraoperative instability*
National Institute of General Medical Sciences (NIGMS)
R01 GM098406
Co-Investigator/Biostatistician
Americans are surviving to increasingly old age and requiring high-risk surgery. However, physicians are hampered by the limitations of conventional methods in predicting operative risk and tailoring surgical and anesthetic management to optimize outcomes. This study will provide new noninvasive approaches to assessing risk and reduce adverse events and their attendant costs.
- 2012-2017 *Mentoring and Research in Placebo Studies, Asian Medicine and CAM*, National Center for Complementary and Alternative Medicine (NCCAM), K24 AT004095
Biostatistician

In their broadest sense, placebo effects can be understood as self-healing engendered by the ritual of treatment, the patient-practitioner relationship, and the power of the imagination, hope and belief. Asian medicine is a growing health care profession. This K24 application seeks to mentor the next generation of scientists and develop a translational and mechanistic research agenda in these two fields.

- 2012-2017 *Tai Chi After Pulmonary Rehabilitation in Patients with COPD*,
National Center for Complementary and Alternative Medicine (NCCAM), R01 AT006358
Co-Investigator/Biostatistician
This study examines Tai Chi, a low-moderate intensity mind-body exercise, that may be helpful in maintaining the benefits of exercise after pulmonary rehabilitation in persons with COPD
- 2012-2017 Research Resource for Complex Physiologic Signals,
National Institute of General Medical Sciences (NIGMS),
R01 GM104987
Co-Investigator/Biostatistician
PhysioNet, the Research Resource for Complex Physiological Signals, maintains the world's largest, most comprehensive, and most widely used repository of time-varying physiological signals and associated signal-processing software, and makes them freely available to the research community. The goals are 1. Accelerate PhysioNet's growth with new technology and data; 2. Innovation through vigorous research program on complex physiologic signals; 3. Stimulate and challenge a growing community of investigators.
- 2013-2014 Complexity Loss, Aging and the Dynamics of Frailty
National Institutes of Aging, R00 AG030677
Biostatistician
The focus of this project is to research novel approaches and technologies to address a major public health problem of frailty in the elderly, which affects millions of Americans and others worldwide and is responsible for substantial morbidity and mortality and for billions of dollars of healthcare costs.
- 2013-2016 Breast Cancer Risk Factors Among Women Aged 75 and Older
National Institute of Aging, R01 AG041869
Co-Investigator/Biostatistician
In this proposal, we will use data from the Nurses' Health Study, a study of 121,701 female nurses that now range in age from 65-90 and who have been surveyed every other year since 1976, to examine how breast cancer risk factors change with years past menopause, to identify risk factors for breast cancer among women aged 75 and older, and to develop a tool to help predict breast cancer among these women.
- 2013-2018 *Harvard CTSA (Research Design, Biostatistics)*
National Center for Advancing Translational Sciences, UL1TR001102
Biostatistician
This grant project in conjunction with \$85M over 5 yrs from Harvard

institutions catalyzes and transforms clinical / translational research throughout Harvard.

2013-2018 InfoSAGE: Information Sharing Across Generations and Environments
 Agency for Healthcare Research and Quality, R01 HS021495
 Co-Investigator/Biostatistician
 We propose to study the information needs of elders and their adult children who are involved in their care and home needs. We will build a “living laboratory” which we are calling InfoSAGE (Information Sharing Across Generations and Environments) to study real-life situations of elders and the challenges for families of communicating, coordinating, and collaborating with complex and costly care environments. Our study puts elders and their family at the center of information and communication.

REPORT OF LOCAL TEACHING AND TRAINING

Teaching of Students in Courses:

Harvard School of Public Health:

1981-1983; 1986	Biostatistics 214: Principles of Clinical Trials (Teaching Assistant) 25-35 MPH / MS students per year 1 contact hour per week, 14 weeks annually
1989-1991	Biostatistics 213: Vital and Health Statistics (Principal Instructor) 8 MPH / MS students per year 2 contact hours per week, 14 weeks annually
1991-1992	Biostatistics 312: Statistical Consulting (Instructor) 6 ScD students in Biostatistics 2 contact hours per week, 28 weeks annually
1993-1994	Epidemiology 236: Methods in Clinical Epidemiology (Lecturer) 20 MPH students per year 6 contact hours annually
1995-	Biostatistics 224: Survival Methods in Clinical Research (Instructor) 45 MPH students per year 10 contact hours per week, 3 weeks annually
2000	Epidemiology 310: Research in Clinical Epidemiology (Tutorial Advisor) Andrew Morris, MD: 10 credit tutorial 20 contact hours over 6 months
2000-	Epidemiology 208: Introduction to Clinical Epidemiology (Co-Instructor) 16 MPH students per year

	8 contact hours annually
2002	Epidemiology 310: Research in Clinical Epidemiology (Principal Advisor) Vanessa Bernstein, MD: 10 credit tutorial 20 contact hours over 8 months
2002	ID270: MPH Practicum (Principal Advisor) Janice Cormier, MD: 5 credit tutorial 20 contact hours over 6 months
2002	Epidemiology 310: Research in Clinical Epidemiology (Principal Advisor) Anna Woo, MD: 10 credit tutorial 20 contact hours over 5 months
2002	Epidemiology 310: Research in Clinical Epidemiology (Principal Advisor) Tony Reiman, MD: 10 credit tutorial 20 contact hours over 6 months
2002	Epidemiology 310: Research in Clinical Epidemiology (Principal Advisor) Catherine McLellan, MD: 10 credit tutorial 20 contact hours over 6 months
2003	ID 270: MPH Practicum (Principal Advisor) Janice Kwon, MD: 5 credit tutorial 20 contact hours over 5 months
2003	Oral Qualifying Exam (Examiner) Department of Epidemiology Alethea McCormick 10 contact hours over 2 months
2004	ID 270: MPH Practicum (Principal Advisor) Cassann Blake, MD: 5 credit tutorial 20 contact hours over 8 months
2004	ID 270: MPH Practicum (Principal Advisor) Raymond Kwong, MD: 5 credit tutorial 40 contact hours over 8 months
2005	Oral Qualifying Exam (Chair) Department of Epidemiology Kunjai Patel 12 contact hours over 1 month
2009	Epidemiology 310: Research in Clinical Epidemiology (Principal Advisor) Wendy Sligl, MD: 10 credit tutorial

	20 contact hours over 4 months
2010	Epidemiology 315: Research in Clinical Epidemiology (Principal Advisor) Jeffrey Perl, MD: 12.5 credit tutorial 20 contact hours over 8 months
2011	Design and Implementation of Clinical Trials (Instructor) Harvard Catalyst Biostatistics Program 41 students 17 contact hours over 3 months
2013	ID 270: MPH Practicum (Principal Advisor) Rose Yeung, MD: 5 credit tutorial 20 contact hours over 4 months

Formal Teaching of Residents, Clinical Fellows and Research Fellows:

Beth Israel Hospital / Beth Israel Deaconess Medical Center:

1992-1995	Journal Club for Primary Care Residents Department of Medicine 24 medical residents 1 contact hour per week, 20 weeks per year
2005	Sample Size Research Track Medical Resident Elective Department of Medicine 20 medical residents 4 contact hours over 1 month
2006	Working with a Biostatistician Research Track Medical Resident Elective Department of Medicine 20 medical residents 4 contact hours over 1 month
2007	Biostatistics 101: An Introduction to the Basics for Residents in the AOC Program Research Track Medical Resident Elective Department of Medicine 20 medical residents 4 contact hours over 1 month
2008	Biostatistics: I / Working with a Biostatistician II / Sample Size Clinical Investigators Training Program Department of Medicine

20 research fellows
3 contact hours over 2 weeks

2011- Quantitative Methods: Study Design and Data Analysis
BIDMC Catalyst Biostatistics Program
24 fellows/junior faculty
4 contact hours over 2 weeks

Formally Supervised Trainees and Faculty:

1992-1994	<u>Mary Beth Hamel, MD, MPH</u> Associate Professor of Medicine, Harvard Medical School Deputy Editor, New England Journal of Medicine One published manuscript in JAMA
1992-1994	<u>Kenneth Covinsky, MD</u> Professor of Medicine, University of California San Francisco One published manuscript
1996-1998	<u>Andrew Auerbach, MD, MPH</u> Professor of Medicine, University of California San Francisco Two published manuscripts
1997-1998	<u>Saul Weingart, MD, PhD</u> Associate Professor of Medicine, Harvard Medical School Chief Medical Officer, Tufts Medical Center One published manuscript
1997-1999	<u>Christina Wee, MD, MPH</u> Associate Professor of Medicine, Harvard Medical School Two published manuscripts including JAMA
1997-1999	<u>Max Rosen, MD</u> Chairman, Department of Radiology, University of Massachusetts Three published manuscripts
1998-2000	<u>Ellen McCarthy, PhD, MPH</u> Assistant Dean of Development and Diversity Associate Professor of Medicine, Harvard Medical School Two published manuscripts
1999-2000	<u>Rachel Murkofsky, MD, MPH</u> Assistant Professor of Geriatric Medicine, University of Hawaii One published manuscript in JAMA
1999-2001	<u>Radhika Ramanan, MD, MPH</u> Associate Professor of Clinical Medicine, University of California San Francisco One published manuscript
2001-2004	<u>Robert Saper, MD, MPH</u>

	Associate Professor of Medicine, Boston University Two published manuscripts including JAMA
2003-2006	<u>Catherine Buettner, MD, MPH</u> Assistant Professor of Medicine, Harvard Medical School Two published manuscripts
2004-2006	<u>Raymond Kwong, MD</u> Assistant Professor of Medicine, Harvard Medical School One published manuscript
2004-2006	<u>Long Ngo, PhD</u> Assistant Professor of Medicine, Harvard Medical School
2007-2009	<u>Gurjeet Birdee, MD, MPH</u> Assistant Professor of Medicine, Vanderbilt Medical School Three published manuscripts
2008-2010	<u>Asgar Naqvi, MD, MPH</u> Instructor in Medicine, Harvard Medical School Two published manuscripts
2009-2012	<u>Jacinda Nicklas, MD, MPH</u> Assistant Professor of Medicine, University of Colorado Two published manuscripts
2009-2012	Rebecca Wells, MD, MPH Assistant Professor in Neurology, Wake Forest University One published manuscript
2009-2012	<u>Aditi Nerurkar, MD, MPH</u> Instructor in Medicine, Harvard Medical School Two published manuscripts
2010-2012	Melissa Wachterman, MD, MPH, MSc Instructor in Medicine, Harvard Medical School Two published manuscripts including JAMA
2010-2013	Maulik Purohit, MD, MPH Instructor in Physical Medicine and Rehabilitation, Harvard Medical School, Two published manuscripts
2011-2012	Yusuke Tsegawa, MD Doctoral Student, Harvard School of Public Health Two published manuscripts
2012-	Kathryn Hall, PhD Research Fellow in Medicine, Harvard Medical School

Laboratory and Other Research Supervisory and Training Responsibilities:

- 1994- For BIDMC-based fellows in the Faculty Development and Fellowship Program in General Internal Medicine: provide guidance and mentorship on statistical aspects and general conduct of research; participate in fellows' conferences; serve as academic advisor in their MPH programs at HSPH.
- 2002- Faculty Development and Fellowship Program in General and Integrative Medicine: provide mentorship on research projects; participate in fellows conferences and journal clubs; serve as academic advisor in their MPH programs at HSPH.
- 2010- Harvard Catalyst Biostatistics Program: provide consultation on study design, power and sample size, analytic plans, statistical methods and software, and participate in educational programs for trainees and junior faculty.

Formal Teaching of Peers (CME):

Those presentations below sponsored by outside entities are so noted and the sponsors are identified

Harvard Medical School:

- 2008-2009 Basics of Statistics
Invited Lecturer
University of São Paulo Clinical Trials Course
Live interactive webcast to Brazil
Sponsor/Compensation: HMS Scholars in Clinical Science Program
- 2008-2009 Introduction to Survival Analysis
Invited Lecturer
University of São Paulo Clinical Trials Course
Live interactive webcast to Brazil
Sponsor/Compensation: HMS Scholars in Clinical Science Program
- 2008 Sample Size and Statistical Power
Invited Lecturer
University of São Paulo Clinical Trials Course
Live interactive webcast to Brazil
Sponsor/Compensation: HMS Scholars in Clinical Science Program
- 2008 Review of Biostatistics
Invited Lecturer
University of São Paulo Clinical Trials Course
HMS Scholars in Clinical Science Program
São Paulo, Brazil
Sponsor/Compensation: HMS Scholars in Clinical Science Program
- 2008-2009 Statistics Workshop
Workshop Leader
University of São Paulo Clinical Trials Course

	HMS Scholars in Clinical Science Program São Paulo, Brazil Sponsor/Compensation: HMS Scholars in Clinical Science Program
2008	Working with a Statistician Invited Lecturer University of São Paulo Clinical Trials Course São Paulo, Brazil Sponsor: HMS Scholars in Clinical Science Program
2009	Grant Proposals: A Statistician's Perspective Invited Lecturer University of São Paulo Clinical Trials Course São Paulo, Brazil Sponsor: HMS Scholars in Clinical Science Program
2010-2013	Basics of Statistics Invited Lecturer Principles and Practice of Clinical Research (CME) 2010-2011: live webcast to 5 continents / 2012: 8 countries Sponsor/Compensation: HMS CME
2010-2013	Introduction to Survival Analysis Invited Lecturer Principles and Practice of Clinical Research (CME) 2010-2011: live webcast to 5 continents / 2012: 8 countries Sponsor/Compensation: HMS CME
2010-2011	Clinical Trials Workshop Workshop Leader Principles and Practice of Clinical Research (CME) São Paulo, Brazil Sponsor: HMS Scholars in Clinical Science Program
2010-2011	Grant Proposals: A Statistician's Perspective Invited Lecturer Principles and Practice of Clinical Research (CME) São Paulo, Brazil Sponsor: HMS Scholars in Clinical Science Program
2010-2011	Writing Tips from a Statistical Editor Invited Lecturer Principles and Practice of Clinical Research (CME) São Paulo, Brazil Sponsor: HMS Scholars in Clinical Science Program
2012-2013	Clinical Trials Workshop Workshop Leader Principles and Practice of Clinical Research (CME) Praia do Forte, Bahia, Brazil

	Sponsor: HMS Scholars in Clinical Science Program
2012-2013	Grant Proposals: A Statistician's Perspective Invited Lecturer Principles and Practice of Clinical Research (CME) Praia do Forte, Bahia, Brazil Sponsor: HMS Scholars in Clinical Science Program
2012-2013	Writing Tips from a Statistical Editor Invited Lecturer Principles and Practice of Clinical Research (CME) Praia do Forte, Bahia, Brazil Sponsor: HMS Scholars in Clinical Science Program

Local Invited Presentations:

Those presentations below sponsored by outside entities are so noted and the sponsors are identified

Harvard School of Public Health:

1988	Exponential Survival Trees Invited Lecture, Seminar Series Department of Biostatistics
1990	Recursive Partitioning for Incomplete Survival Data: A Comparison of Methods Invited Lecture, Seminar Series Department of Biostatistics

Beth Israel Deaconess Medical Center:

2005	Population-Based Studies Crown Life Lecture Series Invited Lecture General Clinical Research Center (GCRC)
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REPORT OF REGIONAL, NATIONAL AND INTERNATIONAL INVITED TEACHING AND PRESENTATIONS

Those presentations below sponsored by outside entities are so noted and the sponsors are identified

Regional:

1995	Predictors of Radiographic Ordering in a Primary Care Invited Speaker Division of General Internal Medicine, Rhode Island Hospital Brown University, Providence, RI
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National:

1990	Results of ACTG 031: Comparative Trial of Trimetrexate with Leucovorin versus Trimethoprim-Sulfamethoxazole for Moderate to
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- Severe Pneumocystis Carinii Pneumonia in Patients with AIDS
Invited Speaker
AIDS Clinical Trials Group, Plenary Session, Washington, DC
- 2000 Quantitative Methods
Symposium: Moderator and Discussant
Society of General Internal Medicine, Annual National Meeting
Boston, MA
- 2008 Results of Two Randomized Trials to Study Placebo Effects
Invited Speaker
Food and Drug Administration (FDA) / Industry Statistics
Workshop, Washington, DC
- 2010 Survival Analysis for the Experienced Researcher
Invited Workshop
Primary Care Research Methods and Statistics Conference
San Antonio, TX
Sponsor/Compensation: University of Texas Health Science Center
at San Antonio

International:

- 2007 Intro to Survival Analysis: Statistical Analysis for Time to
Event Data
Invited Precourse Lecturer
Society of General Internal Medicine, Annual National Meeting
Toronto, Canada

REPORT OF SCHOLARSHIP

Publications

Peer-Reviewed Publications in Print or Other Media:

Research Investigations:

1. Bassin EB, **Davis RB**, Colchamiro S. The preschool child's response to dental care when accompanied by day care personnel. J Pub Health Dent 1982; 42:345-52.
2. Laramore GE, **Davis RB**, Olson MH, Cohen L, Raghaven V, Griffin TW, Rogers CC, Al-Abdulla ASM, Gahbauer RA, Davis LW. RTOG Phase I study of fast neutron teletherapy for squamous cell carcinoma of the esophagus. Int J Radiation Oncol Biol Phys 1983; 9:465-73.

3. Griffin TW, **Davis RB**, Laramore GE, Hendrickson FR, Rodriques-Antunez A, Hussey DH, Nelson J. Fast neutron radiation therapy for glioblastoma multiforme: results of an RTOG study. *Amer J Clin Oncol* 1983; 6:661-7.
4. Griffin TW, **Davis R**, Laramore GE, Hussey DH, Hendrickson FR, Rodriguez-Antunez A. Fast neutron irradiation of metastatic cervical adenopathy: the results of a randomized RTOG study. *Int J Radiation Oncol Biol Phys* 1983; 9:1267-70.
5. Laramore GE, **Davis RB**, Hussey DH, Griffin TW, Maor MH, Hendrickson FR, Davis LW, Dupre E. Radiation therapy oncology group phase I-II study on fast neutron teletherapy for carcinoma of the bladder. *Cancer* 1984; 54:432-9.
6. Griffin TW, **Davis R**, Laramore GE, Maor MH, Hendrickson FR, Rodriguez-Antunez A, Davis LW. Mixed beam radiation therapy for unresectable squamous cell carcinomas of the head and neck: the results of a randomized RTOG study. *Int J Radiation Oncol Biol Phys* 1984; 10:2211-5.
7. Kobusch AB, Simard A, Feldstein M, Vauclair R, Gibbs GW, Bergeron F, Morrissette N, **Davis R**. Pulmonary cytology in chrysotile asbestos workers. *J Chron Dis* 1984; 37:599-607.
8. Schulman P, **Davis RB**, Rafla S, Green M, Henderson E. Phase II trial of spirogermanium in advanced renal cell carcinoma: a Cancer and Leukemia Group B study. *Cancer Treat Rep* 1984; 68:1-16.
9. Griffin TW, **Davis R**, Hendrickson FR, Maor MH, Laramore GE. Fast neutron radiation therapy for unresectable squamous cell carcinomas of the head and neck: the results of a randomized RTOG study. *Int J Radiation Oncol Biol Phys* 1984; 10:2217-21.
10. Sabbath KD, Ball ED, Larcom P, **Davis RB**, Griffin JD. Heterogeneity of clonogenic cells in acute myeloblastic leukemia. *J Clin Inves* 1985; 75:746-53.
11. Mayer RJ, Schiffer CA, Peterson BA, Silver RT, Cornwell GG, McIntyre OR, Rai KR, Budman DR, Ellison RR, Maguire M, **Davis RB**, Frei E. Intensive post-remission therapy in adults with acute non-lymphocytic leukemia with ARA-C by continuous infusion or bolus administration: preliminary results of a CALGB phase I study. *Sem Oncol* 1985; 12(3):84-90.
12. Cannistra SA, Herrmann F, **Davis R**, Nichols K, Griffin JD. Relationship between HLA-DR expression by normal myeloid progenitor cells and inhibition of colony growth by prostoglandin E (PGE): implications for PGE resistance in chronic myeloid leukemia. *J Clin Inves* 1986; 77:13-20.
13. **Davis RB**, VanEcho 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.
14. Griffin JD, **Davis R**, Nelson DA, Davey FR, Mayer RJ, Schiffer CA, McIntyre OR, Bloomfield CD. Use of surface marker analysis to predict outcome of adult acute

- myeloblastic leukemia. *Blood* 1986; 68:1232-41.
15. Mayer RJ, Schiffer CA, Peterson BA, Budman DR, Silver RT, Rai KR, Cornwell GG, Ellison RR, Maguire M, Berg DT, **Davis RB**, McIntyre OR, Frei E. Intensive post-remission therapy in adults with acute non-lymphocytic leukemia using various dose schedules of ARA-C: a progress report from CALGB. *Sem Oncol* 1987; 14(1):25-31.
 16. Rai KR, Cuttner J, Holland JF, **Davis R**, Mayer RJ, McIntyre OR, Preisler HD, Yates J. Therapeutic strategies in acute myelocytic leukemia: a status report of the experience of CALGB. *Hamatol Bluttransfus* 1987; 30:31-4.
 17. Preisler HD, **Davis RB**, Kirshner J, Dupre E, Richards F, Hoagland HC, Kopel S, Levy RN, Carey R, Schulman P, Gottlieb AJ, McIntyre OR. Comparison of three remission induction regimens and two post-induction strategies for the treatment of acute nonlymphocytic leukemia: a Cancer and Leukemia Group B study. *Blood* 1987; 69:1441-9.
 18. Schulman P, **Davis R**, Lee E, Ellerton J, Staszweski H. Phase II study of continuous infusion aziridinylbenzoquinone (AZQ/Diaziquone) in relapsed/refractory acute nonlymphocytic leukemia. *Cancer Treat Rep* 1987; 71:755-7.
 19. Schiffer CA, **Davis RB**, Mayer RJ, Peterson BA, Lee EJ. Combination chemotherapy with diaziquone and amsacrine in relapsed and refractory acute nonlymphocytic leukemia: a CALGB study. *Cancer Treat Rep* 1987; 71:879-80.
 20. Capizzi RL, **Davis R**, Powell B, Cuttner J, Ellison RR, Cooper MR, Dillman R, Major WB, Dupre E, McIntyre OR. Synergy between high-dose ara-C and asparaginase in the treatment of adults with refractory and relapsed acute myelogenous leukemia: a study from the CALGB. *J Clin Oncol* 1988; 6:499-508.
 21. **Davis RB**, Anderson JR. Exponential survival trees. *Stat Med* 1989; 8:947-61.
 22. Davey FR, **Davis RB**, McCallum JM, Nelson DA, Mayer RG, Ball ED, Griffin JD, Schiffer CA, Bloomfield CD. Morphologic and cytochemical characteristics of acute promyelocytic leukemia. *Amer J Hematol* 1989; 30:221-7.
 23. Ball ED, McDermott J, Griffin JD, Davey FR, **Davis R**, Bloomfield CD. Expression of the three myeloid cell-associated immunoglobulin Fc receptors defined by murine monoclonal antibodies on normal bone marrow and acute leukemia cells. *Blood* 1989; 73:1951-6.
 24. Sattler FR, Allegra CJ, Verdegem TD, Akil B, Tuason CU, Hughlett C, Ogata-Arikaki D, Feinberg J, Shelhamer J, Lane HC, **Davis R**, Boylen CT, Leedom JM, Masur H. Trimetrexate-leukovorin dosage evaluation study for treatment of pneumocystis carinii pneumonia. *J Infect Dis* 1990; 161:91-6.
 25. Amrein PC, **Davis RB**, Mayer RJ, Schiffer CA. Treatment of relapsed and refractory acute myeloid leukemia with diaziquone and mitoxantrone: a CALGB phase I study. *Amer J Hematol* 1990; 35:80-3.
 26. Paciucci PA, **Davis RB**, Holland JF, Martello O, Schiffer C. Mitoxantrone and continuous infusion etoposide for relapsed and refractory AML. *Amer J Clin Oncol*

- 1990; 13:516-9.
27. 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.
 28. Ball ED, **Davis RB**, Griffin JD, Mayer RJ, Davey FR, Arthur DC, Wurster-Hill D, Noll W, Elghetany MT, Allen SL, Rai K, Lee EJ, Schiffer CA, Bloomfield CD. Prognostic value of lymphocyte surface markers in acute myeloid leukemia. *Blood* 1991; 77:2242-50.
 29. 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 the acquired immunodeficiency syndrome: a randomized multicenter study of foscarnet versus vidarabine. *N Engl J Med* 1991; 325:551-5.
 30. Dillman RO, **Davis RB**, Green MR, Weiss RB, Gottlieb AJ, Caplan S, Kopel S, Preisler H, McIntyre OR, Schiffer C. A comparative study of two different doses of cytarabine for acute myeloid leukemia: a phase III trial of Cancer and Leukemia Group B. *Blood* 1991; 78:2520-6.
 31. Reddy MM, Grieco MH, McKinley GF, Causey DM, vanderHorst CM, Parenti DM, **Davis RB**, Jacobson MA. Effect of foscarnet therapy on HIV p24 antigen levels in AIDS patients with cytomegalovirus retinitis. *J Infect Dis* 1992; 166:607-10.
 32. Mayer RJ, **Davis RB**, Schiffer CA, Berg DT, Sarno E, Frei E III. Intensive post-remission therapy with Ara-C in adults with acute myeloid leukemia: initial results of a CALGB phase III study. *Leukemia* 1992; 6(2):66-7.
 33. Silverman LR, Holland JF, Weinberg R, Alter B, **Davis RB**, Ellison RR, Demakos EP, Carey RW, Schiffer C, Frei E, McIntyre OR. Effects of treatment with 5-azacytidine on the in vivo and in vitro hematopoiesis in patients with myelodysplastic syndromes. *Leukemia* 1993; 7(Suppl 1):21-9.
 34. Jacobson MA, Causey D, Polsky B, Hardy D, Chown M, **Davis R**, O'Donnell JJ, Kupperman B, Heineman M-H, Holland G, Mills J, Feinberg JE. A dose-ranging study of daily maintenance intravenous foscarnet therapy for cytomegalovirus retinitis in AIDS. *J Infect Dis* 1993; 168:444-8.
 35. Sattler FR, Frame P, **Davis R**, Nichols L, Shelton B, Akil B, Baughman R, Hughlett C, Weiss W, Boylen CT, van der Horst C, Black J, Powderly W, Steigbigel RT, Leedom JM, Masur H, Feinberg J. Trimetrexate with leucovorin versus trimethoprim-sulfamethoxazole for moderate to severe episodes of pneumocystis carinii pneumonia in patients with AIDS: a prospective, controlled multicenter investigation of the AIDS Clinical Trials Group protocol 029/031. *J Infect Dis* 1994; 170:165-72.
 36. Jacobson MA, Wulfsohn M, Feinberg JE, **Davis R**, Power M, Owens S, Causey D, Heath-Chiozzi ME, Murphy RL, Cheung TW, Dieterich DT, Spector SA, McKinley GF, Parenti DM, Crumpacker C. Phase II dose-ranging trial of foscarnet salvage therapy for cytomegalovirus retinitis in AIDS patients intolerant of or resistant to ganciclovir (ACTG protocol 093). *AIDS* 1994; 8:451-9.

37. Jacobson MA, Polsky B, Causey D, **Davis R**, Tong W, O'Donnell JJ, Kuppermann BD, Heinemann M-H, Feinberg J, Lizak P, Gambertoglio GT, Aweeka FT. Pharmacodynamic relationship of pharmacokinetic parameters of maintenance doses of foscarnet and clinical outcome of cytomegalovirus retinitis. *Antimicrob Agents Chemother* 1994; 38:1190-3.
38. 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.
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41. Pinsker J, Phillips RS, **Davis RB**, Iezzoni LI. Use of follow-up services by patients referred from a walk-in unit: how can patient compliance be improved? *Am J Med Qual* 1995; 10:81-7.
42. Rind DM, **Davis RB**, Safran C. Difficulties in designing studies of computer-generated alerts and reminders. *MD Comput* 1995; 12:122-6.
43. Jenkins KJ, Newburger JW, Lock JE, **Davis RB**, Coffman GA, Iezzoni LI. In-hospital mortality for surgical repair of congenital heart defects: variation by hospital caseload. *Pediatrics* 1995; 95:323-30.
44. Ives DV, **Davis RB**, Currier JS. Impact of the introduction of clarithromycin and azithromycin on patterns of treatment and survival among AIDS patients with disseminated mycobacterium avium complex. *AIDS* 1995; 9:261-6.
45. **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.
46. Hamel MB, Goldman L, Teno J, Lynn J, **Davis RB**, Harrell FE, Connors AF, Califf R, Kussin P, Bellamy P, Vidaillet H, Phillips RS. Identification of comatose patients at high risk for death or severe disability. *JAMA* 1995; 273:1842-8.
47. Safran C, Rind DM, **Davis RB**, Ives D, Sands DZ, Currier J, Slack WV, Makadon HJ, Cotton DJ. Guidelines for management of HIV infection with computer-based patient's record. *Lancet* 1995; 346:341-6.
48. Lee K, Yanagisawa Y, Spengler JD, **Davis R**. Assessment of precision of a passive sampler by duplicate measurements. *Environ Int* 1995; 21:407-12.
49. Safran C, Rind DM, **Davis RB**, Sands DZ, Caraballo E, Rippel K, Wang Q, Rury C, Makadon HJ, Cotton DJ, Bleich HL, Slack WV. A clinical trial of a knowledge-based medical record. *Medinfo* 1995; 8(Pt 2):1076-80.

50. Safran C, Rind DM, Sands DZ, **Davis RB**, Wald J, Slack WV. Development of a knowledge-based electronic patient record. *MD Comput* 1996; 13:46-54.
51. Safran C, Rind DM, **Davis RB**, Ives D, Sands DZ, Currier J, Slack WV, Cotton DJ, Makadon H. Effects of a knowledge-based electronic patient record on adherence to practice guidelines. *MD Comput* 1996; 13:55-63.
52. Levine JB, Covino NA, Slack WV, Safran C, Safran DB, Boro JE, **Davis RB**, Buchanan GM, Gervino EV. Psychological predictors of subsequent medical care among patients hospitalized with cardiac disease. *J Cardiopulmonary Rehabil* 1996; 16:109-16.
53. Reiley P, Iezzoni LI, Phillips R, **Davis RB**, Tuchin LI, Calkins D. Discharge planning: a comparison of patients' and nurses' perceptions of patients following hospital discharge. *Image J Nurs Sch* 1996; 28:143-7.
54. Seto TB, Taira DA, **Davis RB**, Safran C, Phillips RS. The effect of physician gender on the prescription of estrogen replacement therapy. *J Gen Intern Med* 1996; 11:197-203.
55. Slater CA, **Davis RB**, Shmerling RH. Antinuclear antibody testing: a study of clinical utility. *Arch Intern Med* 1996; 156:1421-5.
56. Hamel MB, Goldman L, Teno J, Galanos AN, **Davis RB**, Connors AF, Lynn J, Desbiens N, Reding DJ, Oye RK, Phillips R. Seriously ill hospitalized adults: do we spend less on older patients? *J Amer Geriatr Soc* 1996; 44:1043-8.
57. Phillips RS, Hamel MB, Teno JM, Bellamy P, Broste S, Califf RM, Vidaillet H, **Davis RB**, Muhlbaier LH, Connors AF, Lynn J, Goldman L. Race, resource use, and survival in seriously ill hospitalized adults. *J Gen Intern Med* 1996; 11:387-96.
58. Covinsky KE, Bates CK, **Davis RB**, Delbanco TL. Physicians' attitudes toward using patient reports to assess quality of care. *Acad Med* 1996; 71:1353-6.
59. Polsky B, Hurwitz S, Chuang EL, Wolitz R, Cantrill HL, Heinemann M-H, Sands ML, Power ME, Owens S, **Davis R**, Feinberg JE. Intravitreal ganciclovir therapy for cytomegalovirus retinitis in AIDS: AIDS Clinical Trials Group protocol 085. *Int J Infect Dis* 1996; 1:70-4.
60. Calkins DR, **Davis RB**, Reiley P, Phillips RS, Pineo KLC, Delbanco TL, Iezzoni LI. Patient-physician communication at hospital discharge and patients' understanding of the post-discharge treatment plan. *Arch Intern Med* 1997; 157:1026-30.
61. Hofmann JC, Wenger NS, **Davis RB**, Teno J, Connors AF, Desbiens N, Lynn J, Phillips RS. Patients' preferences for communications with physicians about end-of-life decisions. *Ann Intern Med* 1997; 127:1-12.
62. Rosen MP, **Davis RB**, Lesky LG. Utilization of outpatient diagnostic imaging: does physician gender play a role? *J Gen Intern Med* 1997; 12:407-12.
63. Rosen MP, Rose K, **Davis RB**. Work-up of patients with malignancy after an intermediate probability V/Q scan: why don't physicians pursue a definitive diagnosis? *Acad Radiol* 1997; 4:806-11.

64. Puopolo AL, Kennard MJ, Mallatratt L, Follen MA, Desbiens NA, Connors AF, Califf R, Walzer J, Soukup J, **Davis RB**, Phillips RS. Preferences for cardiopulmonary resuscitation. *Image J Nurs Sch* 1997; 29:229-35.
65. Paciucci PA, J Cuttner, Gottlieb A, **Davis RB**, O Martelo, Holland JF. Sequential mitoxantrone, daunorubicin and cytosine arabinoside for patients with newly diagnosed acute myelocytic leukemia. *Am J Hematol* 1997; 56:214-8.
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Research Publications without named authorship:

1. Covinsky KE, Goldman L, Cook EF, Oye R, Desbiens N, Reding D, Fulkerson W, Connors AF, Lynn J, Phillips RS for the SUPPORT Investigators *. The impact of serious illness on patients' families. *JAMA* 1994; 272:1839-44. (*member of the

investigative team cited in the appendix of the manuscript).

2. The SUPPORT Principal Investigators *. A controlled trial to improve care for seriously ill hospitalized patients: The Study to Understand Prognoses and Preferences for Outcomes and Risks of Treatments (SUPPORT). JAMA 1995; 274:1591-8. (*member of the investigative team cited in the appendix of the manuscript).
3. Connors AF, Speroff T, Dawson NV, Thomas C, Harrell FE, Wagner D, Desbiens N, Goldman L, Wu AW, Califf RM, Fulkerson WJ, Vidaillet H, Broste S, Bellamy P, Lynn J, Knaus WA for the SUPPORT Investigators *. The effectiveness of right heart catheterization in the initial care of critically ill patients. JAMA 1996; 276:889-97. (*member of the investigative team cited in the appendix of the manuscript).

Non-Peered Reviewed Scientific or Medical Publications/Materials in Print or Other Media:

Proceedings of Meetings:

1. Safran C, Rind DM, **Davis RB**, Currier J, Ives D, Sands DZ, Slack WV, Makadon H, Cotton D. An electronic medical record that helps care for patients with HIV infection. Proc Annu Symp Comput Applic Med Care 1993; pp 74-8.
2. Parker RA, **Davis RB**. Assessing whether diagnostic accuracy is better than chance. Proc Amer Statist Assoc, Biometrics Sec. 1997; pp 303-6.
3. Goldsmith D, **Davis RB**, Safran C. Using just-in-time education to enhance outcomes of care. In: One Step Beyond: The Evolution of Technology and Nursing. Saba V, Carr R, Sermeus W, Rocha P, editors. Auckland: Adis International Limited 2000; pp 88-95.

Reviews, Chapters, Monographs and Editorials:

1. **Davis RB**. Sample size considerations [review]. In: Anderson JR, Propert K, editors. A compendium of statistical terms and procedures used in cancer clinical trials. Advances Oncol 1989; 5:7-28.
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1. Anderson JR, **Davis RB**. Analysis of survival by tumor response category [letter to the editor]. J Clin Oncol 1986; 4:115-7.

NARRATIVE REPORT:

I am a biostatistician dedicated to improving the quality of biomedical research through collaboration, teaching, and mentorship. As Director of Biostatistics in the Division of General Medicine and Primary Care at BIDMC, I provide biostatistical leadership to faculty, research fellows and medical residents. I collaborate on clinical trials, health services research, clinical

epidemiology and quality improvement projects that cover a broad range of research topics. I also have a substantive role in teaching and mentoring in a variety of settings. Approximately 60-65% of my time is devoted to research activities, 30-35% to teaching and mentoring, and 5% to administration.

My professional career began as a biostatistician collaborating in national cooperative group clinical trials in cancer and AIDS investigations. While at DFCI, I was the biostatistician on the landmark multi-center clinical trial of post-remission intensification for the treatment of acute myeloid leukemia that established the regimen that is still the standard for treatment of this disease (reference 38). Since joining the Division of General Medicine at BIDMC, I have collaborated on a wide array of research in health services, integrative medical therapies, end-of-life care, geriatrics, cardiovascular medicine and obesity. I am also on the faculty of the BIDMC Division of Clinical Informatics and provide biostatistical leadership for its clinical research activities.

Throughout my career, I have sought to bring the best available statistical approaches to each collaboration. For example, in a study of the use of electronic medical records to improve the care of HIV-infected patients (reference 47), I was the first to apply the methods of survival analysis to evaluating computer-generated alerts and reminders. Another example involved a study to evaluate the diagnostic ability of a traditional healer (reference 101). Standard statistical tests did not answer the question the investigator was posing, so, in collaboration with a colleague, I developed a statistical test that was appropriate for the study design (reference 74). My guiding principle for collaborations in integrative medicine has been to bring the same scientific rigor to design, conduct, analysis and reporting of trials that is expected in any other domain of clinical research.

Perhaps my most intellectually stimulating collaboration has been working with Ted Kaptchuk as senior biostatistician on his innovative investigations to understand the nature of placebos. The challenge here has been to translate his groundbreaking research hypotheses and creative insights identifying unique study populations into optimal study designs with analytic plans to answer the research questions credibly. Our work has produced truly novel clinical trial designs (references 171, 178 and 206), and this research has broad implications for both clinical research and practice.

As a statistical editor for *Circulation* and five of the *Circulation*-branded sub-specialty journals, I participate in approximately 18 editorial board meetings per year, conduct formal reviews of approximately 10 papers per month, assign statistical reviews and check completed reviews. My principle teaching contribution is *Biostatistics 224: Survival Methods in Clinical Research*, a course I developed for the HSPH Program in Clinical Effectiveness and have taught annually since 1995. This course is designed for physicians in research fellowships; to date, over 800 students have taken it. I teach students basic statistical methods for analyzing time-to-event data and require that they analyze real data from projects they are working on. Students consistently review this course very positively (the most recent course evaluations gave an overall mean rating of 4.7 on a 5 point scale), and each year several of them go on to publish manuscripts based on the analyses conducted for their course project.

I make additional teaching contributions through the Harvard Catalyst Biostatistics Program, the BIDMC physician resident research course, and as core faculty in a Harvard CME course. I teach in two courses provided through Catalyst: *Design and Implementation of Clinical Trials*, and *Introduction to Quantitative Methods: Study Design and Data Analysis*. The CME course, *Principles and Practice of Clinical Research*, is a collaborative, distance-learning program developed through the HMS Scholars in Clinical Science Program. It is presented through highly

interactive webcasts and rigorous study sessions which, after 6 months, culminate in a 4-day capstone workshop in Brazil. This year, the course is being taken by 300 students in 8 countries on 4 continents.

I provide mentorship on research methods to fellows in the Harvard-wide T32 fellowship programs in General Medicine and Integrative Medical Therapies and serve as an academic advisor to the BIDMC-based fellows in their degree programs at HSPH. I work closely with junior faculty in our division as they design projects and develop analytic plans for career development grants, and continue to work with them as they conduct that research as part of their mentoring team. I also assist non-physician faculty in my Division in navigating academic careers. Through the Harvard Catalyst Program, I provide consultations to trainees and junior faculty on study design, developing analytical plans, grant applications, assistance/guidance in conducting analyses of data, and interpreting and presenting results.

In sum, I contribute to the growth of the research programs for the Division of General Medicine and Primary Care at BIDMC, by helping to improve the quality of research conducted within our group. I greatly enjoy solving the methodological and analytical challenges that arise from conducting innovative clinical and health services research, and my research contributions expand the types of study designs and analytic methods that can be used in the multidisciplinary research conducted at BIDMC. I have mentored a large cohort of physician-researchers in both General Medicine and Integrative Medicine and am deeply involved in training the next generation of academic investigators and leaders in those fields.