

Curriculum Vitae
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EDUCATION

1990-1992 **Northwestern University, Kellogg School of Management, Evanston, IL**
Masters of Management Degree (MBA and MHA equivalent) with Distinction
- Outstanding Student in Health Services Management Award (top graduating student)
- Austin Scholar (merit scholarship awarded to 5% of entering class)
- Vice President, Women in Management
- Arthur Anderson Award (top first year student in health services)

1980-1984 **Stanford University, Palo Alto, CA**
Bachelor of Science Degree in Chemical Engineering
- Stanford-in France, Spring, 1982: Academic and Resident Advisor

ACADEMIC PROFESSIONAL EXPERIENCE

2003- present **FREEMAN SPOGLI INSTITUTE FOR INTERNATIONAL STUDIES, Palo Alto, CA**
Executive Director: Center for Health Policy (CHP)
Provide senior management to a University-wide multi-disciplinary center dedicated to high-quality, innovative research and education to inform health policy decision-making. Oversee several million-dollar program budget and operations. Direct multi-year, multi-disciplinary program and project grants. Mentor and supervise research trainees, associates, and administrative staff. Lead and contribute to projects that produce tools and insights for health policy makers.

1994-present **STANFORD UNIVERSITY, SCHOOL OF MEDICINE, Palo Alto, CA**

1998-present **Executive Director: Center for Primary Care and Outcomes Research (PCOR)**
Jointly founded and direct PCOR, a multi-disciplinary research and education center dedicated to developing and applying methods for the rigorous evaluations of health practices in primary and specialty care settings. Provide strategic, administrative and financial management for PCOR, along with CHP, involving over 30 core and affiliated faculty members, 4 research programs, three fellowship programs with 8 to 10 pre- and post-doctoral trainees, and a research staff of more than 30. Provide project and personnel management to support attainment of scientific goals, ensure that research activities are designed properly, and complete work within schedule and budgetary constraints. Lead and contribute to a wide range of health services research projects.

- 2003-present **Co-Director: Scholarly Concentration in Health Services and Policy Research**
 Direct concentration in health services and policy research—a required component of the educational program for medical students. Mentor medical students in developing their own scholarship, facilitate faculty-mentored scholarly experiences and develop structured curricula to help students develop critical thinking, skills in evaluation of new data, and hands-on experience with the methods by which new scholarly information is generated. Serve on Standing Committee of Faculty Senate on Medical School Scholarship.
- 2002-present **Senior Research Scholar/Senior Engineering Research Associate**
 Academic Appointment, Department of Medicine, Center for Primary Care and Outcomes Research (PCOR).
- 2002-present **Principal Investigator: Support for Quality Indicators (SQI)**
 SQI-1 Contract award: June 2002- November 2004
 SQI-2 Contract award, subcontractor: October 2004-September 2009
 A Stanford, UC-Davis, Battelle collaboration to continue improving and validating the quality tools developed by our Stanford-UC Evidence-based Practice Center team, and disseminated by the Agency for Healthcare Research and Quality as the *AHRQ Prevention Quality Indicators, Inpatient Quality Indicators, Patient Safety Indicators, and Pediatric Quality Indicators*. The project aims to provide a bridge between developers of the quality indicators and users (e.g., health care data organizations, health care systems, hospital associations, and state departments of health). Ongoing validation and evidence updating conducted to support AHRQ submissions of indicators to National Quality Forum consensus process.
 Additional scope of work added in 2008 to develop emergency preparedness indicators.
- 2002-present **Associate Director: Stanford-UCSF Evidence-based Practice Center (EPC)**
 Contract award: July, 2002- March, 2009; PD: Douglas K. Owens, MD, MS
 Applied for award from Agency for Healthcare Research and Quality (AHRQ) to continue as a research center in the EPC-II program.
- Investigator**
 Managed and contributed to research for evidence synthesis for separate projects on regionalization of response for bioterrorism preparedness, quality improvement strategies for selected national priority topic areas (e.g., diabetes, hypertension, asthma, and care coordination), quality-based payment, and comparative effectiveness topics.
- 1998-2004 **TECH International Network Director**
 Technology Change in Health Care Global Research Network (TECH), a collaboration of over 50 Investigators from 17 countries with multiple sources of funding including the National Institute on Aging and Commonwealth Foundation. Project resulted in the production of a book and contributions to health policy field on research using detailed observational and administrative data comparing high technology and low technology treatments for acute myocardial infarction.
- 1997-2002 **Center Coordinator: UCSF-Stanford Evidence-based Practice Center (EPC)**
 Contract award: June, 1997- June, 2002; PD: A. Eugene Washington, MD, MSc
 Initiated proposal development to increase funding to health services research in area of strength at Stanford: co-authored successful proposal for contract awarding up to \$3M for

evidence-based research on government-selected clinical and policy relevant topics. Developed EPC mission, goals and methods of operation with Executive Committee and Governing Council. Maintained excellent communication between all stakeholders including over 40 faculty at two universities, administrative and contracting personnel at both institutions, funding agency program staff, and professional groups that nominated the topics for evidence reviews conducted at UCSF-Stanford EPC.

Investigator

Managed and contributed to research for evidence synthesis for 7 separate projects on stable angina, unstable angina, hospital-based quality indicators, autopsy, decision support systems for response to bioterrorism event, patient safety practices, and coronary heart disease in women. All reports have supported nationally prominent guidelines, tools, quality improvement activities, public health preparedness plans, and/or consensus conferences.

- 1994-2000 **Project Director: Cardiac Arrhythmia and Risk of Death (CARD) Patient Outcomes Research Team (PORT)**
Grant award: August, 1994-July, 1999, extended through November, 2000
PI: Mark Hlatky, MD
Directed multi-disciplinary, multi-institutional team of researchers with backgrounds in biostatistics, epidemiology, health services, economics, and medicine, in large outcomes study. Managed day-to-day activities and budget decisions for \$5.1M, 6-year, 7 study, 4 site project. Ensured documentation of all research, and high quality of written products. Contributed to research on wide range of projects based on meta-analysis, decision modeling, quality of life surveys, claims database analysis and patient preference assessment. Project afforded me the opportunity to learn health services research in depth, and transition to an academic career without formal doctoral training.

NON-PROFIT ORGANIZATION PROFESSIONAL EXPERIENCE

STANFORD UNIVERSITY HOSPITAL, Palo Alto, CA

- 1992-1994 **Manager, Technology Optimization and Business Development**
Developed and sustained medical center wide technology assessment and management initiative to apply university based research capabilities in evaluation to hospital setting. Conducted research to identify issues related to medical technology (pharmaceuticals, devices, diagnostics, equipment and procedures) decision-making, culminating in creation of "Technology Assessment Council" of 20 clinical and administrative leaders. Coordinated Neurosciences Service Line development and business planning, including work on reducing cost, increasing market revenue, and enhancing quality.
- Summer 1991 **Business Development Intern**
Researched and wrote needs assessment section of HCFA application for new Kidney and Liver Transplant Program. Co-authored strategic plan for 72-hour post-operative care business. Coordinated internal and external data gathering and analysis for Perinatal Center Business Plan.

INDUSTRY PROFESSIONAL EXPERIENCE

BIOTRACK, INC., Mountain View, CA

Successful start-up medical diagnostics products company. Company's products targeted at doctor's office where these tests are run on one drop of blood, with results reported within five minutes.

1989-1990 **Program Manager, R&D**

Directed interdisciplinary team of eight engineers and chemists in product development of patient-side immunoassay system for measuring therapeutic drug analytes in blood. Guided project through clinical trials and filing of 510(k) submissions to FDA. Demonstrated key product and made presentations to potential corporate buyers. Developed plans and budget for product transfer and production scale-up.

1987-1989 **Senior Development Engineer, R&D**

Patented single-use capillary action cartridge for rapid assay of blood clotting times (APTT) (U.S. Patent # 5,039,617 (issued 8/13/91): "Capillary flow device and method for measuring activated partial thromboplastin time." Acted as liaison between R&D and manufacturing for prothombin time (PT) and activated partial thromboplastin time (APTT) products. Coordinated transfer and validation of product into an existing automatic production line.

SIGNETICS CORPORATION, Sunnyvale, CA

Integrated Circuit Manufacturer that adopted Deming and Juran TQM methods.

1986- 1987 **Supervising Engineer, Advanced Process Development Fabrication Area**

Managed engineering group troubleshooting production line and developing new processes. Led Statistical Process Control team and trained other team leaders.

1984-1986 **Process Engineer**

PUBLIC & PROFESSIONAL SERVICE

President-Elect, SMDM, 2008-

Executive Committee Member, Congestive Heart Failure QUERI, Department of Veterans Affairs, 2006-
Chair, Finance Committee, Society for Medical Decision Making (SMDM), 2008-

Editorial Board, *Medical Decision Making (MDM)*, 2002-2005

Global Health Indicators Working Group Member, Center for Global Development, 2006
Member, SMDM, 1994-

Chair, SMDM Executive Director Search Committee, 2006-2007

Vice-President, SMDM Board of Trustees, 2004-2005

Chair, Education Committee, SMDM, 2004-2005

Vice-President Elect, SMDM Board of Trustees, 2003-2004

Chair, Publications Committee, SMDM, 1999-2002

Past Chair, Publications Committee, SMDM, 2002-2005

Secretary-Treasurer Elect, SMDM Board of Trustees, 2000-2001

Secretary-Treasurer, SMDM Board of Trustees, 2001-2003

Reviewer, *Quality and Safety in Healthcare, Health Affairs, Medical Care, JAMA, and others*

Agency for Healthcare Research and Quality Contract Proposal Review Committee, 2002

President, Mountain View Schools Fund (MVSF) Board, 1998-9

Chair, MVSF “Tools for Schools” Fundraising Campaign (\$100K/year raised)

RESEARCH INTERESTS

Health care quality and patient safety
Multi-disciplinary approaches to evaluating health care practices, interventions and policies
Evidence-based medicine
Medical technology assessment
Decision analysis and patient preferences

CURRENT RESEARCH SUPPORT

- 11/01/08- 06/30/10 ***Characterization of Readmission in California and an Estimation of the Impact of Post-Discharge Complications on the Sensitivity of the AHRQ QIs***
Role: Co-Principal Investigator
Funding Source: The Gordon and Betty Moore Foundation
The primary goal is to understand potentially preventable readmission rates and patterns in San Francisco Bay area adult acute care hospitals and the relationship between potentially preventable readmissions and other hospital quality indicators.
- 06/15/05- 09/30/09 ***Comparative Effectiveness Reviews for MMA Section 1013***
Role: Investigator
Principal Investigator: Douglas K. Owens, MD, MS
Funding Source: AHRQ (under the EPC)
To produce comparative effectiveness reviews on medical interventions, including a report comparing surgery versus percutaneous interventions for clogged heart arteries, and another comparing use of Factor VII to standard of care for massive bleeding.
- 09/30/04- 12/31/10 ***Support for Quality Indicators- II***
Principal Investigator
Funding Source: AHRQ/Battelle subcontract
The primary goal of the subcontract is to conduct research to update and enhance the Stanford-developed quality indicators, based on administrative data and other information that can be readily linked to these sources. Other goals include new indicator development (pediatric, neonatal, emergency preparedness), and support for submission of indicators to National Quality Forum endorsement process.
- 09/30/04- 07/31/09 ***Center on Advancing Decision Making in Aging***
Role: Associate Director
Principal Investigator: Alan Garber, MD, PhD
Funding Source: NIH/NIA
CADMA will promote the study of decision making processes and the determinants of choices that affect health and well-being in the later years of life. CADMA researchers plan to conduct basic and applied research on decision making processes with a goal of developing and

implementing practical methods for improving fundamental decisions affecting the well-being of the elderly.

06/17/02 - 09/30/09

Stanford-UCSF Evidence-based Practice Center (EPC)

Role: Associate Director

Principal Investigator: Douglas K. Owens, MD, MS

Funding Source: AHRQ

The major goal of the EPC is to produce evidence reports and technology assessments on topics identified by the funder. The reports are expected to serve as the scientific basis for use by organizations developing guidelines, performance measures, or other quality improvement tools; or for guidance for health care decision making related to effectiveness or appropriateness of health care technologies.

08/15/99- 06/30/09

Center on Demography and Economics of Health and Aging

Role: Associate Director

Principal Investigator: Alan Garber, MD, PhD

Funding Source: NIH/NIA

The goals of the Stanford Center on the Demography and Economics of Health and Aging (CDEHA) are to promote the study of trends in demography, economics, health, and health care, and the effects of these trends on the well-being of the elderly. A primary activity of the grant is selection and award of pilot project funding.

PAST RESEARCH SUPPORT

06/17/02- 09/30/08

Broad-based Support for the EPC Program

Role: Investigator

Principal Investigator: Douglas K. Owens, MD, MS

Funding Source: AHRQ

The major goal of this project is to conduct thorough reviews of the literature and other sources for evidence on specific topics. Other goals include involvement in EPC agenda setting and participation in workgroups to foster collaboration in evidence-based methodology.

05/30/03- 08/31/07

Best Practices for Quality Health Care

Role: Investigator

Principal Investigator: Douglas K. Owens, MD, MS

Funding Source: AHRQ

The major goal of this project is to conduct a thorough review of the literature and other sources for evidence on quality improvement strategies for selected national priority topic areas.

09/25/01- 04/30/06

China- US Health and Aging Research Program

Role: Advisor

Principal Investigator: Alan Garber, MD, PhD

Funding Source: NIH/AHRQ

This planning phase for a China-US Health and Aging Research Training Program aims to improve the quality and efficiency of health care delivery in China, generally by developing the health services research capacity in China, and specifically through research projects conducted by trainees targeted to address Chinese health policy priorities.

05/16/05- 03/15/06

Diagnosis and Management of Pediatric Anthrax

Role: Investigator

Principal Investigator: Douglas K. Owens, MD, MS

Funding Source: AHRQ

The major goal of this project is to conduct a thorough review of the case report literature on pediatric anthrax.

07/01/99- 06/30/04

A Global Analysis of Technological Change in Health Care

Role: Investigator

Principal Investigator: Kessler

Funding Source: NIH/NIA

The major goal of this project is to investigate the determinants and consequences of technological adoption and diffusion in disease- specific domains by examining administrative, chart review, epidemiology registry, and follow-up outcomes data on medical technology use in 16 developed countries worldwide.

06/03/02- 06/02/04

Support for Quality Indicators

Role: Principal Investigator

Funding Source: AHRQ

The primary goals of this project are to translate research into practice by providing technical assistance to users of the Stanford-developed quality indicators, and continuing development of quality indicators based on administrative data and other information that can be readily linked to these sources.

09/30/02- 05/31/04

Regional Models for Bioterrorism Preparedness

Role: Investigator

Principal Investigator: Douglas K. Owens, MD, MS

Funding Source: AHRQ

The major goal of this project is to conduct a thorough review of the literature and other sources for evidence on regional models for response to a bioterrorism event.

PUBLICATIONS

Peer-reviewed Articles

- 1) Sim I, Gupta M, **McDonald K**, Bourassa MG, Hlatky MA. A meta-analysis of randomized trials comparing coronary artery bypass grafting with percutaneous transluminal coronary angioplasty in multivessel coronary artery disease. *Am J Cardiol.* 1995;76:1025-9.

- 2) Sanders GD, Dembitzer AD, Heidenreich PA, **McDonald KM**, Owens DK. Presentation and explanation of medical decision models using the World Wide Web. *Journal of the American Medical Informatics Association* 1996; Annual Supplement: 60-4.
- 3) Owens DK, Sanders GD, Harris RA, **McDonald KM**, Heidenreich PA, Dembitzer AD, Hlatky MA. Cost-effectiveness of implantable cardioverter defibrillators relative to amiodarone for prevention of sudden cardiac death. *Ann Intern Med.* 1997; 126:1-12.
- 4) Sim I, **McDonald KM**, Lavori PW, Norbutas CM, Hlatky MA. Quantitative overview of randomized trials of amiodarone to prevent sudden cardiac death. *Circulation.* 1997; 96:2823-2829.
- 5) Every NR, Parsons L, Hlatky MA, **McDonald KM**, Thom D, Hallstrom AP, Martin JS, Weaver WD. The use and accuracy of state death certificates for classification of sudden cardiac deaths in high risk populations. *Am Heart J.* 1997 Dec; 134:1129-32.
- 6) Cheng CHF, Sanders GD, **McDonald KM**, Heidenreich PA, Hlatky MA, Owens KD. Design of a modular, extensible decision support system for arrhythmia therapy. *Journal of the American Medical Informatics Association* 1998; Supplement: 693-697.
- 7) Every NR, Hlatky MA, **McDonald KM**, Weaver WD, Hallstrom AP. Estimating the proportion of post-myocardial infarction patients who may benefit from prophylactic implantable defibrillator placement: an evaluation of the CAST registry. *Am J Cardiol.* 1998 Sep 1; 82(5):683-5, A8.
- 8) Heidenreich PA, **McDonald KM**, Hastie T, Fadel B, Hagan V, Lee BK, Hlatky MA. Meta-analysis of trials comparing b-blockers, calcium antagonists, and nitrates for stable angina. *JAMA.* 1999 May 26; 281:1927-1936.
- 9) Larson MS, **McDonald K**, Young C, Sung R, Hlatky MA. Quality of life before and after radio-frequency catheter ablation of atrioventricular nodal re-entrant tachycardia. *Am J Cardiol.* 1999 Aug. 15; 84:471-473.
- 10) Lin A, Lenert LA, Hlatky MA, **McDonald KM**, Olshen RA, Hornberger J. Clustering and the design of preference-assessment surveys in health care. *Health Services Research.* 1999 Dec; 34:5 Part I:1033-45.
- 11) McClellan M, Kessler D for the TECH Investigators (**McDonald K**, US Investigator). A global analysis of technological change in health care: the case of heart attacks. *Health Affairs* 1999 May/June; 18(3):250-255.
- 12) Cheng CHF, Sanders GD, Hlatky MA, Heidenreich P, **McDonald KM**, Lee BK, Larson MS, Owens DK. Cost effectiveness of radiofrequency ablation for supraventricular tachycardia. *Ann Intern Med* 2000;133:864-878.
- 13) Tu JV, Austin PC, Walld R, Roos L, Agras J, **McDonald KM**. Development and validation of the Ontario acute myocardial infarction mortality prediction rules. *J Am Coll Card.* 2001;37(4):992-7.
- 14) Heidenreich PA, Go AS, Alloggiamento T, Melsop K, **McDonald KM**, Hlatky MA. Prognostic value of troponin in patients with non-ST elevation acute coronary syndromes: a meta-analysis. *J Am Coll Cardiol.* 2001 Aug;38(2):478-85.
- 15) Technological Change in Health Care (TECH) Research Network. Technological change around the world: evidence from heart attack care. *Health Affairs.* May/June 2001;20(3):25-42.
- 16) **McDonald KM**, Hlatky MA. Cost reduction and implantable cardioverter defibrillator implantation. (editorial comment) *J Cardiovasc Electrophysiol.* 2001;12(2):167-168.
- 17) Sanders GD, Hlatky MA, Every NR, **McDonald KM**, Heidenreich PA, Parsons LS, Owens DK. Potential cost effectiveness of prophylactic use of the implantable defibrillator or amiodarone after myocardial infarction. *Ann Intern Med.* 2001 Nov 20;135(10):870-83.
- 18) Romano PS, Elixhauser A, **McDonald KM**, Miller MR. HIM's role in monitoring patient safety (not peer reviewed) *Journal of AHIMA.* March 2002;73(3):72-74.
- 19) Sim I, Sanders GD, **McDonald KM**. Evidence-based practice for mere mortals: the role of informatics and health services research. *J Gen Intern Med.* April 2002; 17(4): 302-308.
- 20) Weiss JP, Sayina O, **McDonald KM**, McClellan MB, Hlatky MA. Effectiveness and cost effectiveness of implantable cardioverter defibrillators in the treatment of ventricular arrhythmias among Medicare beneficiaries. *Am J Med.* 2002;112:519-527.

- 21) Shojanian KS, Duncan BW, **McDonald KM**, Wachter RM. Safe but sound: patient safety meets evidence-based medicine. *JAMA*. 2002; 288(4): 508-13.
- 22) Every N, Hallstrom A, **McDonald KM**, Parsons L, Thom D, Weaver D, Hlatky MA. Risk of sudden versus non-sudden cardiac death in patients with coronary artery disease. *Am Heart J* 2002; 144:390-6.
- 23) Hlatky MA, Saynina O, **McDonald K**, Garber A, McClellan M. Utilization and outcomes of the implantable cardioverter defibrillator, 1987-1995. *Am Heart J* 2002; 144:397-403.
- 24) Hsu J, Uratsu C, Truman A, Quensenberry C, **McDonald K**, Hlatky M, Selby J. Quality of life and costs in ventricular arrhythmias. *Am Heart J* 2002; 144:404-12.
- 25) Heidenreich PA, Keeffe B, McDonald KM, Hlatky MA. Overview of randomized trials of antiarrhythmic drugs and devices for the prevention of sudden cardiac death. *Am Heart J* 2002; 144:422-30.
- 26) Alexander M, Baker L, Clark C, **McDonald KM**, Rowell R, Saynina O, Hlatky MA. Management of ventricular arrhythmias in diverse populations in California. *Am Heart J* 2002; 144:431-9.
- 27) **McDonald KM**, Hlatky MA, Saynina O, Geppert J, Garber AM, McClellan MB. Trends in hospital treatment of ventricular arrhythmias among Medicare beneficiaries, 1985-1995. *Am Heart J* 2002; 144:413-21.
- 28) Owens DK, Sanders GD, Heidenreich PA, **McDonald KM**, Hlatky MA, Effect of risk stratification on the cost effectiveness of the implantable cardioverter defibrillator (ICD). *Am Heart J* 2002; 144:440-8.
- 29) Romano PS, Geppert JG, Davies S, Miller MR, Elixhauser A, **McDonald KM**. A national profile of patient safety in U.S. Hospitals. *Health Affairs*. March/April 2003; 22(2): 154-66.
- 30) Shojanian KG, Burton EC, **McDonald KM**, Goldman L. Changes in rates of autopsy-detected diagnostic errors over time: A systematic review *JAMA*. 2003 Jun 4;289(21):2849-56.
- 31) Bravata DM, Sundaram V, **McDonald KM**, Smith WM, Szeto H, Schleinitz MD, Owens DK. Evaluating detection and diagnostic decision support systems for bioterrorism response. *Emerg Infect Dis* 2004; 10(1):100-108. Available from: URL: <http://www.cdc.gov/ncidod/EID/vol10no1/03-0243.htm>.
- 32) Bravata DM, **McDonald KM**, Szeto H, Smith WM, Rydzak C, Owens DK. A conceptual framework for evaluating information technologies and decision support systems for bioterrorism preparedness and response. *Med Decis Making* 2004;24:192-206.
- 33) Bravata DM, **McDonald KM**, Wendy M. Smith WM, Rydzak C, Szeto H, Buckeridge DL, Haberland C, Owens DK. A critical evaluation of surveillance systems for illnesses and syndromes potentially related to bioterrorism. *Ann Int Med*. 2004 Jun 1;140(11):910-22.
- 34) Yoo BK, Bhattacharya J, **McDonald KM**, Garber AM. Impacts of informal caregiver availability on long-term care expenditures in OECD countries. *Health Serv Res*. 2004 Dec;39(6 Pt 2):1971-92.
- 35) Bravata DM, **McDonald KM**, Shojanian KG, Sundaram V, Owens DK. Challenges in systematic reviews: Synthesis of topics related to the delivery, organization, and financing of health care. *Ann Int Med*. 2005; 142: 1056-65.
- 36) Shojanian KG, Burton EC, **McDonald KM**, Goldman L. The overestimation of clinical diagnostic performance caused by low autopsy rates. *Qual Saf Health Care*. 2005; 14 (6): 408-413.
- 37) Holty JE, Bravata DM, Liu H, **McDonald KM**, Owens DK. A century of inhalational anthrax: A systematic review of cases from 1900 to 2005. *Ann Intern Med*. 2006 Feb 21;144(4):270-80.
- 38) Walsh JM, **McDonald KM**, Shojanian KG, Sundaram V, Nayak S, Lewis R, Owens DK, Goldstein MK. Quality improvement strategies for hypertension management: A systematic review. *Med Care*. 2006 Jul;44(7):646-657.
- 39) Shojanian KG, Ranji SR, **McDonald KM**, Grimshaw JM, Sundaram V, Rushakoff RJ, Owens DK. The effects of quality improvement strategies for type 2 diabetes on glycemic control: A meta-regression analysis. *JAMA*. 2006 Jul 26;296(4):427-40.
- 40) Shojanian KG, Ranji SR, McDonald KM, Grimshaw JM, Rushakoff RJ, Owens DK. Quality improvement strategies for type 2 diabetes (letter) *JAMA* 2006;296:2680-2681.

- 41) Bravata DM, Zaric GS, Hoty J-ED, Brandeau ML, Wilhelm ER, **McDonald KM**, Owens DK. Reducing mortality from anthrax bioterrorism: Strategies for stockpiling and dispensing medical and pharmaceutical supplies. *Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science*. 2006; 4(3):244-262.
- 42) Bravata DM, Holty JE, Wang E, Lewis R, Wise PH, **McDonald KM**, Owens DK. Inhalational, gastrointestinal, and cutaneous anthrax in children: a systematic review of cases: 1900 to 2005. *Arch Pediatr Adolesc Med*. 2007 Sep;161(9):896-905.
- 43) **McDonald KM**, Davies SM, Geppert J, Romano PS. Why rescue the administrative data version of the "failure to rescue" quality indicator. *Med Care*. 2007 Apr;45(4):277-9.
- 44) Bravata DM, Gienger AL, **McDonald KM**, Sundaram V, Perez MV, Varghese R, Kapoor JR, Ardehali R, Owens DK, Hlatky MA. Systematic review: The comparative effectiveness of percutaneous coronary interventions and coronary artery bypass graft surgery. *Ann Intern Med* 2007 Nov 20;147(10):703-16.
- 45) Walsh JM, Sundaram V, **McDonald KM**, Owens DK, Goldstein MK. Implementing effective hypertension quality improvement strategies: barriers and potential solutions. *J Clin Hypertens*. 2008 Apr 10(4):311-6.
- 46) Zaric GS, Bravata DM, Holty J-EC, **McDonald KM**, Owens DK, Brandeau ML. Modeling the logistics of response to anthrax bioterrorism. *Med Decis Making*. 2008 May-Jun;28(3):332-50.
- 47) **McDonald KM**, Davies SM, Haberland C, Geppert JJ, Ku A, Romano PS. A preliminary assessment of pediatric healthcare quality and patient safety in the U.S. using readily available administrative data. *Pediatrics*. 2008 Aug;122(2):e416-25.
- 48) Kapoor JR, Gienger AL, Ardehali R, Varghese R, Perez MV, Sundaram V, **McDonald KM**, Owens DK, Hlatky MA, Bravata DM. Isolated disease of the proximal left anterior descending artery: Comparing the effectiveness of percutaneous coronary interventions and coronary artery bypass surgery. *JACC Cardiovasc Interv*. 2008 Oct;1(5):483-91.
- 49) Bech M, Christiansen T, Dunham K, Lauridsen J, Lyttkens CH, **McDonald KM**, McGuire A, and the TECH Investigators. The influence of economic incentives and regulatory factors on the adoption of treatment technologies: a case study of technologies used to treat heart attacks. *Health Econ*. 2008.
- 50) Bravata DM, Gienger AL, Holty JC, Sundaram V, Khazeni N, Wise PH, **McDonald KM**, Owens DK. Quality improvement strategies for children with asthma: a systematic review. *Arch Pediatr Adolesc Med*. 2009;163(6):572-581.
- 51) Hlatky MA, Boothroyd DB, Bravata DM, Boersma E, Booth J, Brooks MM, Carrié D, Clayton TC, Danchin N, Flather M, Hamm CW, Hueb WA, Kähler J, Kelsey SF, King SB, Kosinski AS, Lopes N, **McDonald KM**, Rodriguez A, Serruys P, Sigwart U, Stables RH, Owens DK, Pocock SJ. Coronary artery bypass surgery compared with percutaneous coronary interventions for multivessel disease: a collaborative analysis of individual patient data from ten randomised trials. *Lancet*. 2009 Apr 4;373(9670):1190-7.
- 52) **McDonald KM**. Approach to improving quality: The role of quality measurement and a case study of the Agency for Healthcare Research and Quality pediatric quality indicators (AHRQ PDI). *Pediatr Clin North Am*. 2009; (56): 815-829.
- 53) Perelman J, Shmueli A, **McDonald KM**, Pilote L, Saynina O, Closon MC, TECH Investigators. Inequality in treatment use among elderly patients with acute myocardial infarction: USA, Belgium, and Quebec. *BMC Health Services Research*. 2009; 9:130.
- 54) Hlatky M, Bravata D, **McDonald KM**, Owens D. CABG versus PCI for multivessel coronary artery disease (letter). *Lancet*. 2009; 373:2199-2200.

Government Reports

- 1) Heidenreich PA, **McDonald KM**, Hastie T, Fadel B, Hagan V, Lee BK, Hlatky MA. Medical management of stable angina: an evaluation of beta-blockers, calcium antagonists, nitrates and

- alternative therapies for stable angina. Agency for Health Care Policy and Research EPCTM Evidence Report/Technology Assessment No. 10. (Prepared by Stanford-UCSF Evidence-Based Practice Center under contract #290-97-0013) AHCPR Publication No. 00-E003 (report) and No. 00-E002 (summary). Rockville, MD: Agency for Healthcare Policy and Research. November 1999.
- 2) Heidenreich PA, Go AS, Alloggiamento T, Melsop K, **McDonald KM**, Hagan V, Hastie T, Hlatky MA. Prediction of risk for patients with unstable angina. Agency for Health Care Research and Quality EPCTM Evidence Report/Technology Assessment Publication No. 31. (Prepared by Stanford-UCSF Evidence-Based Practice Center under contract #290-97-0013) AHRQ Publication No. 01-E001 (report) and No. 00-E030 (summary). Rockville, MD: Agency for Healthcare Research and Quality. December 2000.
 - 3) Shojania KS, Duncan BW, **McDonald KM**, Wachter RM. Making health care safer: A critical analysis of patient safety practices. Evidence Report/Technology Assessment No. 43 (Prepared by Stanford-UCSF Evidence-Based Practice Center under contract #290-97-0013) AHRQ Publication No. 01-E058 (report) and No. 01-E057 (summary). Rockville, MD: Agency for Healthcare Research and Quality. July 2001.
 - 4) Davies S, Geppert J, McClellan, M, **McDonald KM**, Romano PS, Shojania KG. Refinement of the HCUP quality indicators. Agency for Health Care Research and Quality EPCTM Evidence Report/Technology Assessment. Review #4. AHRQ Publication No. 01-0035 (report and summary). Internet Publication: December 2001. Agency for Healthcare Research and Quality, Rockville, MD. <http://www.ahrq.gov/clinic/tp/hcupqitp.htm>
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 - 12) Shojania KG, **McDonald KM**, Owens DK. Evidence-based review methodology for the closing the quality gap series of evidence reports. In: Shojania KG, McDonald KM, Wachter RM, Owens DK. Closing the quality gap: A critical analysis of quality improvement strategies, Volume 1—Series Overview and Methodology. Evidence Report/Technology Assessment No. 9. (Prepared by Stanford-UCSF Evidence-Based Practice Center under contract No. 290-02-0017). AHRQ Publication No. 04-0051-1. Rockville, MD: Agency for Healthcare Research and Quality. August 2004.
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- 22) Baker L, Bundorf K, Royalty A, Galvin C, **McDonald KM**. Consumer-oriented strategies for improving health benefit design: An overview. Technical Review 15 (Prepared by Stanford-UCSF Evidence-Based Practice Center under contract No. 290-02-0017.) AHRQ Publication No. 07-0067. Rockville, MD: Agency for Healthcare Research and Quality. July 2007
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White Papers

- 1) Brandeau ML, **McDonald KM**, Owens DK. Global HIV prevention and treatment: Planning for the future. Global Health Policy Research Network; 2005.
- 2) **McDonald KM**. Health care indicators: Development of an evaluation framework from US context. Global Health Policy Research Network; 2006.

Abstracts

- 1) Owens DK, Sanders GD, Harris RA, **McDonald KM**, Hlatky MA. Cost effectiveness of third-generation implantable cardioverter-defibrillators for prevention of sudden cardiac death. *Med Decis Making*. 1995; 15:420.

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- 26) Hsu J, Uratsu C, Truman A, Quesenberry C, **McDonald K**, Hlatky M, Selby J. Functional status after hospitalization and treatment for a life-threatening ventricular arrhythmia. *HMO Research Network Conference*, April 4, 2000.
- 27) Bravata DM, **McDonald K**, Smith WM, Rydzak , Szeto H, Buckeridge D, Haberland C, Dangiolo MB, Graham J, Owens DK. Surveillance systems for bioterrorism: A systematic review. *Journal of General Internal Medicine*, 2002; 17, April (Suppl 1): 184.
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- 29) McClellan M, Kessler D, **McDonald K** and TECH Investigators. Trends in the use of technology for heart attacks and stroke, the US experience in the light of the TECH research network. Presented with Panel Session: Bridging the gaps in the international analysis of health care systems: the recent experience of the OECD. *Academy for Health Services Research and Health Policy*. June 2002.
- 30) Bravata D, Szeto H, **McDonald KM**, Smith W, Owens DK. Development of a conceptual framework for the evaluation of decision support systems to respond to bioterrorism. *Society for Medical Decision Making*. October 2002.
- 31) **McDonald KM**, Davies S, Geppert J, Romano P, Gritz M, Remus D. Quality indicators for inpatient care, patient safety and avoidable hospitalizations: Building a bridge from indicator development to user applications. *The 5th International Conference on the Scientific Basis of Health Services. Global Evidence for Local Decisions*. (September 2003)
- 32) Davies SM, Romano PS, **McDonald KM**, Geppert, J, Elixhauser A, Remus D. Use of AHRQ prevention quality indicators for public health and health plan monitoring of access to care. *The 131st Annual Meeting of American Public Health Association*. (November 15-19, 2003)
- 33) Romano PS, **McDonald KM**, and others. Refinement and validation of the AHRQ Patient Safety Indicators (PSI). *The 131st Annual Meeting of American Public Health Association*. (November 15-19, 2003)
- 34) Zaric GS, Bravata D, Holty JC, Brandeau ML, Willhelm E, Sundaram V, **McDonald KM**, Owens DK. Modeling the logistics of response to a large anthrax attack in the United States. *Medical Decision Making* 2003; 23:570.
- 35) Walsh JM, **McDonald KM**, Shojania KG, Sundaram V, Lewis R, Nayak S, Mechanic J, Owens DK, Goldstein MK. Quality improvement strategies for hypertension: a systematic review. *Society for Medical Decision Making* (presenter at October 2004 annual meeting).

- 36) Walsh JM, **McDonald KM**, Shojania KG, Sundaram V, Lewis R, Nayak S, Mechanic J, Owens DK, Goldstein MK. Provider adherence with quality improvement strategies for management of hypertension: a systematic review. *Society for Medical Decision Making* (presenter at October 2004 annual meeting).
- 37) Perelman J, Shmueli A, Pilote L, **McDonald KM**, Saynina O, Closon MC, and TECH group. Inequality in in-patient care delivery-The case of access to high-technology AMI treatments. *International Health Economics Association*. (July 13, 2005)
- 38) Bravata DM, Zaric GS, Holty JE, Brandeau ML, Wilhelm ER, **McDonald KM**, Owens DK. The cost effectiveness of alternative strategies for stockpiling and dispensing medical and pharmaceutical supplies during a response to anthrax bioterrorism. *Medical Decision Making* 2005; 25 (1):E5.
- 39) Holty JE, Bravata DM, Liu H, Wilhelm ER, Zaric GS, **McDonald KM**, Owens DK. 100 years of inhalational anthrax: a systematic review of cases from 1990 to 2001. *Medical Decision Making* 2005; 25 (1):E25.
- 40) Davies S, Romano PS, Ku A, Haberland CA, Geppert J, **McDonald KM**. Indicators of their own: pediatric quality indicators based on administrative data. *AcademyHealth Annual Research Meeting*, June 25, 2006, Seattle, WA. [Most Outstanding Abstracts Award 2006 for this abstract.]
- 41) Geppert J, Davies S, Haberland CA, **McDonald KM**, Romano, P. Socioeconomic status and the prevention quality indicators. *AcademyHealth Annual Research Meeting*, June 27, 2006, Seattle, WA
- 42) Haberland C, Geppert J, Davies S, Ku A, **McDonald KM**, Romano, P. A method for risk adjustment for the AHRQ pediatric quality indicators. *AcademyHealth Annual Research Meeting*, June 25, 2006, Seattle, WA.
- 43) Bravata DM, **McDonald KM**, Gienger A, Owens DK. Comparative effectiveness of percutaneous coronary interventions and coronary artery bypass grafting for coronary artery disease. *Journal of General Internal Medicine* 2007; 22 supplement 1, p. 47, April 2007.
- 44) **McDonald KM**, Karon S, Lee S, Geppert J, Cubbins L, Potter DEB. Using the Medicaid Analytic Extract (MAX) to Identify the HCBS (Assisted Living) Waiver Population. *The Gerontological Society of America's 62nd Annual Scientific Meeting*. November 21, 2009. Atlanta, GA.

INVITED PRESENTATIONS

- 1) Trends in Hospital Treatment of Ventricular Arrhythmias Among Medicare Beneficiaries, 1986-1994. American Heart Association 71st Scientific Sessions (Dallas, Texas; Nov. 8, 1998)
- 2) Technological Change in Health Care (TECH) Research Network. 16th Annual Meeting Association for Health Services Research (Chicago, Illinois; June 28, 1999).
- 3) A Global Analysis of Technological Change in Health Care: Heart Attacks. The XV International Scientific Meeting of the International Epidemiological Association (Florence, Italy; September 3, 1999).
- 4) Health Economics Implications of Treatment of Coronary Events. The XV International Scientific Meeting of the International Epidemiological Association (Florence, Italy; September 3, 1999).
- 5) Measuring Health Care and its Determinants. Population Association of America 2000 Annual Meeting (Los Angeles, California; March 23, 2000).
- 6) Overview of "Making Health Care Safer: A Critical Analysis of Patient Safety Practices". National Quality Forum Safe Practices Committee meeting (Washington, DC. July 18, 2001).
- 7) Discussion on Applying the Findings of the Agency for Healthcare Research and Quality Evidence Report: "Making Health Care Safer: A Critical Analysis of Patient Safety Practices." Department of Veterans Affairs and Quality Interagency Coordination Task Force conference, Effective Practices to Improve Patient Safety, Summit 2001 (Washington DC; September 5-7, 2001).

- 8) Health Services Research 101: Systematic Review Methods Used at the Stanford-UCSF Evidence-Based Practice Center. Primary Care and Outcomes Research. (Stanford, California; July 24, 2002).
- 9) Patient Safety Indicators: Identifying Potential Preventable Complications Using Hospital Discharge Data. Patient Safety Seminar VHA West Coast (Pleasanton, California; December 19, 2002).
- 10) Patient Safety Surveillance Using Hospital Discharge Data: Opportunities and Obstacles. Stanford University Center for Primary Care and Outcomes Research. (Stanford, California; January 29, 2003).
- 11) AHRQ Quality Indicators Workshop. American Association of Health Plans (Atlanta, GA; April 30, 2003).
- 12) Series of Patient Safety Climate presentations. Executive Teams at CHP/PCOR Patient Safety Consortium hospitals (numerous hospitals in Southern and Northern California, 2003).
- 13) Quality Indicators for Inpatient Care, Patient Safety and Avoidable Hospitalizations: Building a Bridge from Indicator Development to User Applications. 5th International Conference on the Scientific Basis of Health: Global Evidence for Local Decisions. (Washington, DC; September 22, 2003).
- 14) Health Care Quality and Safety Measures Based on Administrative Data: From Development to Application. Workshop with co-presenters: Romano PS, McBride S. International Society for Quality in Health Care. (November 5, 2003).
- 15) Benchmarks and Handbook for Regional Planners: Evidence on Regionalization of Bioterrorism Response. AHRQ User Liaison Program for senior Federal, State, and local government policymakers, Bioterrorism and Other Public Health Emergencies: Tools and Models for Planning and Preparedness. (Chicago, IL; May 18, 2004).
- 16) Data Workshop—HCUP and AHRQ Quality and Patient Safety Indicators. 10th Annual NRSA Trainees Research Conference. (San Diego, CA; June 5, 2004).
- 17) Closing the Quality Gap: Care Coordination. Evidence-based Practice Centers Annual Directors' Meeting. (Washington, DC; November 5, 2004).
- 18) Development of Pediatric Quality Indicators using Hospital Discharge Data. Stanford University Center for Primary Care and Outcomes Research (Stanford, CA; February 2, 2005).
- 19) Development, Refinement and Ongoing Validation of the AHRQ Quality Indicators. Kaiser Division of Research Seminar (Oakland, CA; May 3, 2005).
- 20) Overview of the Pediatric Quality Indicators Module. AHRQ Quality Indicators Users Meeting (Stanford, CA; September 26, 2005).
- 21) Development of Pediatric Quality Indicators Based on Hospital Administrative Data. Pediatric Academic Societies' 2006 Annual Meeting (San Francisco, CA; April 29, 2006).
- 22) Validating the AHRQ Patient Safety Indicators: Current Uses and Research. Eighth Annual National Patient Safety Foundation Congress (San Francisco, CA; May 11, 2006).
- 23) Assessing Pediatric Healthcare Quality in U.S. Hospitals and Regions Using Readily Available Administrative Data. HCQO4 Fourth Annual Bay Area Health Care Quality and Outcomes Conference (San Francisco, CA; May 25, 2006)
- 24) Center for Demography, Economics and Health in Aging (CDEHA) Research. American Society of Health Economists' first annual conference (University of Wisconsin-Madison, June 7, 2006).
- 25) Evidence-based Medicine Method and Projects at the Stanford-UCSF EPCs. Professionalism in Contemporary Practice (Stanford, CA; September 15, 2006).
- 26) Evidence-based Practice Centers – Research and Context. Palo Alto Research Center (Palo Alto, CA; December 12, 2006)
- 27) Care Coordination—Evidence-based Practice Center's Report: Definitions, Theoretical Frameworks and Relationship to Transitions/Handovers and Information Exchange." ABIM Foundation's Stepping Up to the Plate Transitions/Handovers Expert Meeting (Philadelphia, PA; March 7, 2007).
- 28) Executive Summary of AHRQ Evidence Report on Care Coordination. American College of Physicians-Society of General Internal Medicine-Society of Hospital Medicine Transitions of Care Consensus Conference (Philadelphia, PA; July 11, 2007).

- 29) Ongoing and Future Research on AHRQ Quality Indicators. AHRQ Annual Meeting (Bethesda, MD; September 10, 2008)
- 30) Outcomes for Our Health System in 20 Years. 3rd Annual Haas Business of Health Care Conference (Berkeley, CA; February 8, 2009).
- 31) Governance and the Delivery of Public Health Services. Center on Democracy, Development, and the Rule of Law (CDDRL) Draper Hills Summer Fellows Program in conjunction with Global Health Corps Training Program (Stanford, CA; July 29, 2009).

TEACHING AND ADVISING

Health Research and Policy 207: Issues and Methods of Health Services and Policy Research, Fall Quarter, 2003-2006

Undergraduate Honors and Directed Reading Advising: Theodore Chang, Hilary Homenko, Eugene Lin, Megan Talbot

Medical Scholars Research Project Advising: Rebecca Kim, Juan Carlos Montoy

Post-Doctoral AHRQ Fellow Thesis Advising: Bradford Duncan

Applicant for the AHRQ Mentored Research Scientist Development Award (K01): Tina Hernandez-Boussard

AWARDS AND HONORS

Saenger Distinguished Service Award, Society for Medical Decision Making, 2007

Stanford Department of Medicine Teaching Award 2006

Most Outstanding Abstracts Award *AcademyHealth Annual Research Meeting* 2006

Co-author of Society for Medical Decision Making Lee Lusted Prize Abstract 1996

Outstanding Student in Health Services Management Award, Northwestern University, 1992

Arthur Anderson Award, Top First Year Student, Northwestern University 1991

Austin Scholar (merit scholarship awarded to 5% of entering class, Northwestern University) 1990

United States Patent # 5,039,617 (issued 8/13/91): "Capillary flow device and method for measuring activated partial thromboplastin time"