

RESEARCH DIVISION ANNUAL REPORT
JULY 1, 2004 - JUNE 30, 2005

OVERVIEW

The Research Division is under the leadership of Benjamin F. Crabtree, PhD, a nationally recognized family medicine researcher, widely known for his contributions towards establishing qualitative methods as an integral part of primary care research. The Division is supported administratively by a faculty leadership group and receives guidance from an ongoing enhancement team call the Reflective Adaptive Process (RAP) team that meets weekly to discuss emerging issues. A weekly Research Division meeting provides a forum for faculty/staff development and interactive communication.

The Department is a collaborative member of the AAFP-funded Center for Research in Family Practice and Primary Care. The Center is one of three highly competitive centers funded by the American Academy of Family Physicians' research enhancement initiative and is a collaboration of five family medicine departments: Case Western Reserve University (Kurt Stange, MD, PhD, principal investigator); Lehigh Valley Hospital (William Miller, MD, MA, principal investigator); UTHSC San Antonio (Carlos Jaen, MD, PhD, principal investigator); University of Colorado (Paul Nutting, MD, principal investigator) and UMDNJ-RWJMS (Benjamin Crabtree, PhD, principal investigator). The UMDNJ-RWJMS site serves as the "Qualitative Core" of the Center.

Division research efforts has received major funding through federal and foundation sources, including the National Heart, Lung & Blood Institute (NHLBI), National Institute for Nursing Research (NINR); the Agency for Healthcare Research and Quality (AHRQ); the Centers for Disease Control (CDC), the National Cancer Institute (NCI), and the Robert Wood Johnson Foundation (RWJF). In the 2004-2005 academic year this funding has exceeded \$1,170,170 in annual direct costs. This funding provides support for a well-established ongoing line of research to enhance quality of care in primary care practices that uses a theoretical model based on complexity science.

In collaboration with the Cancer Institute of New Jersey, the department has an established New Jersey Family Medicine Research Network (NJFMRN) to work collaboratively with community-based clinicians and practices. Currently this network includes 66 New Jersey practices in 20 of 21 New Jersey counties representing 160 physicians and more than 400,000 patients.

Since 2002, the Department's Primary Care/Health Services Research Postdoctoral Fellowship has been integrated into the Research Division, with fellows working in "apprenticeship" relationships with faculty in the department or in other departments within the university over a 2-year period. The fellowship is supported by a federal NRSA grant and is open to either MD or PHD candidates.

The mission and vision of the UMDNJ-RWJMS Family Medicine Research Division is to develop and sustain a nurturing and productive research environment that fosters collaborative trans-disciplinary approaches to promote the health of individuals, families, and communities by:

improving quality of care, and
eliminating health-related disparities

FACULTY AND STAFF

The Research Division includes faculty and staff members with varying amounts of time dedicated to research. For many, research is their primary departmental responsibility, while others have considerable clinician or administrative responsibilities. The following faculty and staff have either their primary appointment in the Division of Research or have major time commitments to research.

Research Faculty members

Deborah Cohen, PhD
Benjamin Crabtree, PhD
Jesse Crosson, PhD (primary appointment with NJMS)
Bijal Balasubramanian, MD, MPH
Barbara DiCicco-Bloom, RN, PhD
Shawna Hudson, PhD
Nicole Isaacson, PhD
Jeffrey Levine, MD, MPH
Pamela A. Ohman Strickland, PhD
John Orzano, MD, MPH
Beatrix Roemheld-Hamm, MD, PhD
John Scott, MD, PhD
Alfred Tallia, MD, MPH

Research Division Staff

Cathy Bass, PhD
Sabrina Chase, PhD
Anda Cytroen, MPH
Cynthia Duncan-Robinson
Terry Falco
Karissa Hahn, MPH
Jill Kelly, LPN
Anna Looney, PhD
Tara Nazareth
Dena O'Malley
Apexya Patel
Geraldine Redmond, PA
Kim Ross-Reed
Eric Shaw, PhD
Bhargavi Venkatesan, MS

Faculty Research Interests:

Deborah J. Cohen, PhD

(732) 743-3239; cohendj@umdnj.edu

Deborah J. Cohen PhD, a conversation analyst, is an Assistant Professor and Co-Associate Director of the Research Division in the Department of Family Medicine, UMDNJ-RWJ Medical School. She has written and contributed to several articles that use conversation analysis to examine physician-patient interaction. This research has discerned those practices clinicians and patients use to create opportunities to deliver preventive services during illness visits and to talk about weight with patients who are overweight and obese. Working with ethnographic data, Dr. Cohen has also contributed to work that begins to understand the facilitators and inhibitors of practice change. She is currently Principal Investigator on an NCI R01 subcontract funded through Case Western Reserve University and Principal Investigator on a four-year evaluation of the Robert Wood Johnson Foundation funded Prescription for Health initiative.

Interests: Physician-patient communication, primary care practice improvement, preventive service delivery, qualitative research, cultural competence, and gender issues in primary care practice

Specialty: Health communication, physician-patient communication and conversation analysis

Degrees: MA, University of Pennsylvania, Philadelphia, PA, 1992
PhD, Rutgers University, New Brunswick, NJ, 1999

Positions and Appointments:

Assistant Professor, UMDNJ-RWJMS Department of Family Medicine

Benjamin F. Crabtree, PhD;

(732) 743-3222; crabtrbf@umdnj.edu

Benjamin Crabtree, PhD, a medical anthropologist, is Professor and Director of Research; and Director of the Health Services Research Fellowship Program at the Department of Family Medicine, UMDNJ-Robert Wood Johnson Medical School. He has written and contributed to numerous articles and chapters on both qualitative and quantitative methods, covering topics ranging from time series analysis and log-linear models to in-depth interviews, case study research, and qualitative analysis strategies. He is currently the principal investigator on a five-year practice-randomized clinical trial funded by the National Heart, Lung, & Blood Institute and Co-investigator on a four-year evaluation of the Robert Wood Johnson Foundation funded Prescription for Health initiative.

Interests: Organizational design and change, primary care practice improvement, preventive service delivery, chronic disease management, complexity science, qualitative research, transdisciplinary research team building

Specialty: Medical anthropology

Degrees: MA, University of South Florida, Tampa, FL, 1981
PhD, University of Connecticut, Storrs, CT, 1986

Positions and Appointments:

Professor and Research Director, UMDNJ-RWJMS Department of Family Medicine
Director, Qualitative Core, AAFP Center for Research in Primary Care & Family Practice
Director, UMDNJ-RWJMS Health Services Research Fellowship Program
Associate Editor, Annals of Family Medicine
Member, Cancer Institute of New Jersey
Professor, Rutgers School of Public Health, Division of Epidemiology

Jesse Crosson, PhD

(732)743-3368; jesse.crosson@umdnj.edu

Jesse Crosson, PhD, a political scientist is an Assistant Professor in the Departments of Family Medicine at both UMDNJ-New Jersey Medical School and UMDNJ-Robert Wood Johnson Medical School. He has written and contributed to several articles in the area of medical educational research. He is currently a co-investigator on the Using Learning Teams for Reflective Adaptation (ULTRA) project; a five-year practice randomized clinical trial funded by the National Heart, Lung, & Blood Institute. He is also a coinvestigator on the Translating Research Into Action for Diabetes (TRIAD) project, a national multi-center study designed to determine how managed care systems influence the processes and outcomes of diabetes care and is a consultant on projects funded by the Aetna and Bildner foundations focused on cultural competency issues.

Interests: Organizational change, complexity science, primary care practice improvement, diabetes care in primary care settings, qualitative methods, group facilitation, social network analysis

Specialty: Political science

Degrees: MA, Rutgers University, New Brunswick, NJ 1991
Ph.D., Rutgers University, New Brunswick, NJ 2000

Positions and Appointments:

Assistant Professor, UMDNJ-NJMS, Department of Family Medicine
Assistant Professor, UMDNJ-RWJMS, Department of Family Medicine

Bijal A. Balasubramanian, MBBS, MPH

732-743-3295

Bijal A. Balasubramanian, MBBS, MPH, Assistant Professor in the Department of Family Medicine and will take a leading role in providing support in epidemiology and quantitative analysis. Bijal received her medical degree in India and is now completing a PhD in epidemiology at the UMDNJ School of Public Health.

Interests: Chronic disease epidemiology, disparities in cancer treatment, effect of comorbidity on preventive service delivery in primary care practices

Specialty: Epidemiology

Degrees: MBBS (Bachelor of Medicine and Surgery), NDMVP Samaj's Medical College, Nasik, India, 1996
MPH (Masters of Public Health), UMDNJ School of Public Health, Piscataway, NJ, 2001

Positions and Appointments:

Assistant Professor, UMDNJ-RWJMS Department of Family Medicine

Barbara DiCicco-Bloom, RN, PhD

(732) 743-3368; diciccba@umdnj.edu

Barbara DiCicco-Bloom RN PhD, a nurse-researcher, is an Assistant Professor and Associate Director of the Health Services Research Fellowship in the Department of Family Medicine, UMDNJ-Robert Wood Johnson Medical School. She practiced home care and hospice nursing for 27 years. She has been a nurse educator for 25 years. Her research interests include critical and feminist theory and have been applied to the study of care of culturally diverse patients, the experiences of immigrant nurses, and the relationships of nurses and physicians in family medicine settings. She is currently a co-investigator on a five-year practice-randomized clinical trial funded by the National Heart, Lung, & Blood Institute. She has a grant under review by the National Institute of Nursing Research to study social capital among nurses and physicians in primary care practices in relation to patient outcomes.

Interests: Feminist and critical theory, social capital in health care settings, the experience of immigrant nurses, complexity science, qualitative research, nursing in health care organizations, home care/ hospice care, research participation in transdisciplinary teams

Specialty: Nursing

Degrees: MA, New York University New York, New York, 1981
PhD, New York University, New York, New York, 1996

Positions and Appointments:

Assistant Professor, UMDNJ-RWJMS, Department of Family Medicine
Associate Director, UMDNJ-RWJMS Health Services Research Fellowship Program, Department of Family Medicine

Shawna V. Hudson, PhD

(732) 743-3274; HUDSONSH@UMDNJ.EDU

Shawna Hudson, PhD, a medical sociologist, is an Assistant Professor in the Department of Family Medicine and Director of Community Research at The Cancer Institute of New Jersey, UMDNJ-Robert Wood Johnson Medical School. Her research interests cluster around examination of the nexus of health disparities and health promotion in cancer and health communication and risk perception among members of the medically underserved. Her current research examines health care provider barriers to cancer screening and cancer clinical trial research for racial/ethnic minorities and other medically underserved populations.

Interests: Health disparities and health promotion in cancer, organizational change in primary care settings, cultural competency, health communication and education research, qualitative research

Specialty: Medical sociology

Degrees: MA, Rutgers University, New Brunswick, NJ, 1995
PhD, Rutgers University, New Brunswick, NJ, 2001

Positions and Appointments:

Assistant Professor, UMDNJ-RWJMS Department of Family Medicine
Director, Community Research, The Cancer Institute of New Jersey
Member, The Cancer Institute of New Jersey
Member, Cancer Prevention and Control Group, New Jersey Commission
on Cancer Research

Nicole Isaacson, PhD

(732)743-3387; isaacsni@umdnj.edu

Interests: Health disparities and preventive care issues, cultural competency, primary care practice improvement, sexual and reproductive health issues, gender and adolescent research in primary care practice, qualitative research.

Specialty: Sociology

Degrees: MA, (Anthropology) Rutgers University, New Brunswick, NJ, 1991
Ph.D., Rutgers University, New Brunswick, NJ, 2001

Positions and Appointments:

Assistant Professor, UMDNJ-RWJMS, Department of Family Medicine
Coordinator, Network of Affiliated Family Practice Residencies, UMDNJ-RWJMS
Department of Family Medicine

Jeffrey P. Levine, MD, MPH

(732) 235-7663; jeffzoo@aol.com

Dr. Levine is an Assistant Professor in the Departments of Family Medicine and Obstetrics, Gynecology & Reproductive Sciences at the UMDNJ-Robert Wood Johnson Medical School. He is also the Director of the Women's Health and Obstetrics Fellowship Programs. He is an appointed board member of the New Jersey Department of Health and Senior Services' Interagency Council and the National Alliance for Better Bone Health. He also serves as a medical advisor for the New Jersey Family Planning League, and as a medical consultant for the Women's Health and Counseling Center. Dr. Levine has recently applied his clinical, research and educational experience to practice-based primary care research. His research interest is in eliminating gender disparities, and in practice improvement of women's health care access and delivery, especially for the underserved.

Interests: Women's health, clinical trials (contraception, menopause, osteoporosis, sexual dysfunction), primary care practice improvement, preventive service delivery, improving access to care, elimination of health disparities

Specialty: Family Practice, Women's Health

Degrees: MD, Mount Sinai School of Medicine, New York, NY, 1990
MPH, University of Medicine and Dentistry of New Jersey/Rutgers University,
New Brunswick, NJ, 1996

Positions and Appointments:

Assistant Professor, Departments of Family Medicine and Obstetrics, Gynecology & Reproductive Sciences

Director, Women's Health and Obstetrics Fellowship Programs

Chair, Department of Health and Senior Services' Interagency Council on Osteoporosis

Pamela A. Ohman Strickland, PhD

732-743-3274, ohmanpa@umdnj.edu

Interests: Statistical methodology with applications to cluster randomized trials, hierarchical linear models, survival analysis, analysis of data sets with small sample sizes

Specialty: Statistics

Degrees: MS, Cornell University, Ithaca, NY, 1996
PhD, Cornell University, Ithaca, NY 1997

Positions and Appointments:

Associate Professor, UMDNJ-SPH, Department of Biostatistics

Assistant Professor, UMDNJ-RWJMS, Department of Family Medicine

Member, UMDNJ Stuart D. Cook MD Masters Educators Guild

Secretary of the Faculty, UMDNJ-SPH

A. John Orzano, MD, MPH

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A. John Orzano, MD, MPH, a family physician, is an Associate Professor and Research Director of the New Jersey Family Physicians Research Network at the Department of Family Medicine, UMDNJ-Robert Wood Johnson Medical School. He was in private practice for over 20 years before returning to academic medicine. He has published papers analyzing the added value of care provided by physicians through efforts to buffer the effects of managed care from patients and to address medical needs of other family members in addition to the scheduled patient. He is currently Project Co-Director on a five-year practice-randomized clinical trial funded by the National Heart, Lung, & Blood Institute and is funded by a career award (K08) grant by AHRQ to develop an instrument to measure organizational performance in primary care practices.

Interests: Practice-based network research, organizational change, practice improvement, complexity science, practice productivity

Specialty: Family Practice

Degrees: BS, Georgetown University, Washington, DC, 1969
MD, Georgetown University, Washington, DC, 1973
MPH, UMDNJ-School of Public Health, Piscataway, NJ, 2001

Positions and Appointments:

Associate Professor, UMDNJ-RWJMS Department of Family Medicine
Research Director, New Jersey Family Physicians Research Network

Beatrix Roemheld-Hamm, MD, PhD

(732) 743-3387; hammbr@umdnj.edu

Beatrix Roemheld-Hamm, MD, PhD, a family physician, is an Associate Professor and holds a joint academic appointment in both the Department of Family Medicine and the Department of Psychiatry at UMDNJ-Robert Wood Johnson Medical School.

She was a co-investigator for a trial assessing the impact of cultural competency training using participatory quality improvement methods. In collaboration with the Department of Psychiatry, she has been involved in various studies and clinical enterprises assessing and improving the primary care needs of underserved populations, particularly the severely and persistently mentally ill; she is also involved in a study comparing the effectiveness of a behavioral treatment intervention between Spanish and English speaking patients with medically unexplained symptoms presenting to the primary care office. Recently, she served as Principal Investigator for a study funded through a cooperative agreement with the Center for Disease Control and Prevention on disparities in influenza immunizations. Since October, 2004 she had joined the Division's NRSA fellowship program to refine her research skills.

Interests: Qualitative research, primary care services delivery, integration of behavioral and medical health and Complementary and Alternative Medicine (CAM)

Specialty: Family Practice

Degrees: MD, University of Heidelberg Medical School, Germany, 1978
PhD, University of Mannheim Medical School, Germany, 1987

Positions and Appointments:

Associate Professor, UMDNJ-RWJMS Department of Family Medicine

John G. Scott, MD, PhD

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John Scott, MD, PhD, a family physician, is an Assistant Professor and Co-Associate Director of the Health Services Research Fellowship Program at the Department of Family Medicine, UMDNJ-Robert Wood Johnson Medical School. He was in private practice for 21 years before returning to academic medicine. He has published papers analyzing doctor-patient encounters with obese patients and patients with upper respiratory infections. He is currently a co-investigator on a five-year practice-randomized clinical trial funded by the National Heart, Lung, & Blood Institute and has a Generalist Physician Faculty Scholar grant funded by the Robert Wood Johnson Foundation to study healing relationships between primary care doctors and patients.

Interests: Organizational design and change, primary care practice improvement, preventive service delivery, chronic disease management, complexity science, qualitative research, doctor-patient relationship, healing role of primary care physicians

Specialty: Family Medicine

Degree: MD, PhD, Duke University Medical School, Durham, NC, 1979

Positions and Appointments:

Assistant Professor, UMDNJ-RWJMS Department of Family Medicine
Associate Director, NRSA Fellowship program

Alfred F. Tallia, MD, MPH

(732) 235-6029; tallia@umdnj.edu

Alfred F. Tallia, MD, MPH is Associate Professor, Vice Chair, and Associate Director of Research. A member of the AAFP Center for Research in Family Medicine and Primary Care, his practice-based research relates to practice organization, function, and quality of care. An STFM Best Research Paper Award recipient, he is a board member of the National Board of Medical Examiners, Director of the medical school's health policy fellowship, and has served as chief executive of a large multi-site, university physician group practice. He is currently co-investigator on a five-year practice-randomized clinical trial funded by the National Heart, Lung, & Blood Institute and the four-year Robert Wood Johnson Foundation Prescription for Health evaluation.

Interests: Healthcare organizational design and change, practitioner quality of care assessment, primary care practice quality assessment and improvement, preventive service delivery, chronic disease management, health policy

Specialty: Family Medicine, Public Health

Degrees: MD, Robert Wood Johnson Medical School, New Brunswick, NJ, 1978
MPH, University of Medicine and Dentistry of New Jersey/ Rutgers University,
New Brunswick, NJ, 1988

Positions and Appointments:

Associate Professor and Vice Chair, UMDNJ-RWJMS Department of Family Medicine
Member, AAFP Center for Research in Primary Care & Family Practice
Member, National Board of Medical Examiners
Founding Director and faculty member, RWJMS Health Policy Fellowship Program

Research activities:

Cohen, D., PI: “Using illness visits to address health behavior advice” NCI with CWRU (subcontract); 2004-2008; total direct costs for subcontract: \$150,419.

This subcontract provides support for conversation analysis in a study which seeks to characterize the way a teachable moment arises and is constructed within physician-patient interaction and to evaluate the effectiveness of this strategy on patient recall of advice, motivation to modify behavior and change in health behavior.

Cohen D., PI. Prescription for Health Independence Evaluation Unit. Robert Wood Johnson Foundation; January 2004-2007; total project costs: \$600,000.

This multiyear project is performing an ongoing content and process analysis of Robert Wood Johnson Foundation funded projects submitted by Practice Based Research Networks to the Prescription for Life: Promoting Health Behaviors Initiative. Methodologies include a comparative case analysis of projects, built on qualitative and quantitative data collected at the initiative, project, and practice levels.

Cohen, DJ: “Study of Determinants of High Quality Care in Family Practice Offices”, agreement, University of Chicago (PI Hickner); 2005; total project direct costs: \$12,352.

This supports a collaboration to provide on-site and off-site research data collection and analysis to document and assess the quality of care, organizational structure and function of the project as they relate to increasing and sustaining a high quality of care; and to understand the interpersonal relationships and processes within the practice.

Crabtree BF. Institutional National Research Services Award (T32). Health Resources and Service Administration, 2003–2008; total project costs: \$1,319,174.

The NRSA fellowship seeks to produce researchers who: 1) are knowledgeable about national, state, and local health promotion and disease prevention; 2) are capable of investigating the appropriateness, effectiveness, and quality of health care in primary care settings; and 3) contribute to ongoing clinical and health policy research.

Crabtree BF. Trial to Enhance Adherence to Multiple Guidelines. National Heart, Lung, and Blood Institute; 2002–2007; total project costs: \$3,722,849.

The major goal of this grant is to test a tailored practice level intervention strategy to simultaneously improve the delivery of care for diabetes, hypertension, and asthma and for tobacco and cholesterol screening. A group randomized clinical trial of practices is being used to test the intervention.

Crabtree, BF, PI: “Enhancing colorectal CA screening through learning teams,” National Cancer Institute; 2005 – 2010; total project costs: \$2,997,356.

This study evaluates a tailored practice-level MAP/RAP intervention that seeks to enhance relationships among practice members in order to improve rates of colorectal cancer screening in primary care practice.

DiCicco-Bloom, B, PI: “Patterns of nurse-physician relationships”. Funding Agency: National Institute of Nursing Research (NINR); April 2005–2 March 2007; total project costs: \$151,199.

This study aims to 1) describe the presence of social capital and 2) describe the presence of movement in conceptual space among nurses and physicians in primary care practices and determine their association with standards of chronic illness care.

Hudson, SV (Pilot Project PI), DHHS, Project EXPORT, Addressing Cancer Disparities in NJ Communities, 9/30/04-9/29/07; total project costs: \$1.2 million.

This three year grant focuses on development of resources and infrastructure needed for cancer research, training, community education and outreach. It focuses on conducting health disparities research designed to reduce cancer rates among minorities in New Jersey and to increase the participation of African-Americans, Latinos and other health disparity groups in biomedical and behavioral research as well as prevention and intervention activities.

Orzano AJ, PI. Capacity in Organizational Research, AHRQ (K08 HS014018) Career Development Award; 2004 – 2008; total project costs: \$435,219.

This grant supports a variety of educational strategies designed to make Dr. Orzano an expert in relevant organizational performance measure and to enhance his skills in survey and multimethod research approaches.

Scott, JG, PI. Robert Wood Johnson Generalist Physician Faculty Scholars Program, “Balancing Priorities: Healing in the context of evidence-based medicine”; Robert Wood Johnson Foundation; 2004 – 2008; total project costs: \$300,000.

This grant supports Dr. Scott to explore how the doctor-patient relationship promotes patient healing.

Tallia, A. Academic Administrative Units in Primary Care. Health Resources and Services Administration, September 30, 2002 – August 31, 2005; total project costs: \$682,987.

This grant supports a three-year project to strengthen the department’s research capacity using a multifaceted strategy including creating a supportive research environment, supporting a critical mass of family medicine faculty focused on the elimination of health disparities, and building the research infrastructure.

Pending Grants

**Cohen, D, PI: “Using Qualitative Methods in Healthcare Research: A Comprehensive Guide for Designing, Writing, Reviewing and Reporting Qualitative Research,” Robert Wood Johnson Foundation (RWJF); 2005-2006; total project costs: \$33,894.
(Notice of Grant Award has been received)**

A one year project to collect and synthesize multiple sources in order to develop a web-based resource that will be an important resource to those with varying degrees of familiarity and experience with qualitative research methods.

**Cohen, DJ. PI: “Prescription for Health Evaluation Round 2: Analysis, Synthesis, and Dissemination,” Funding Agency: Robert Wood Johnson Foundation (RWJF); Project amount: \$438,797
(Notice of Grant Award has been received)**

This multiyear project is performing an ongoing content and process analysis of Robert Wood Johnson Foundation funded projects submitted by Practice Based Research Networks to the Prescription for Life: Promoting Health Behaviors Initiative. Methodologies include a comparative case analysis of projects, built on qualitative and quantitative data collected at the initiative, project, and practice levels.

**Tallia, A.F., PI: “Academic Administrative Units in Primary Care”, Health Resources and Services Administration; September 2005 – August 2008; total project costs: \$741,915.
(Notice of Grant Award has been received)**

The major goals of the grant are to: 1) develop a state-wide quality of care research network; 2) support a critical mass of family medicine researchers, and 3) build the infrastructure necessary to support and sustain network-based quality of care research and primary care practice improvement research productivity.

**Tallia, A., (subcontract PI): “Using learning teams for reflective adaptation for diabetes”; NIDDK; Subcontract project amount: \$315,363
(Notice of Grant Award has been received)**

A subcontract that will compare the magnitude and timing of the intervention effects with a state of the art quality improvement effort that focuses on diabetes. V

2004-2005 Publications:

Orzano AJ, Scott JG. Diagnosis and Treatment of Obesity: An Applied Evidenced Based Review. J Am Board Fam Pract 2004; 17:359-69.

Crosson JC, Deng W, Brazeau C, Boyd L, Soto-Greene M. Author’s reply to comments on “Evaluating the effect of cultural competency training on medical student attitudes.” Family Medicine 36; 9:615.

Acheson LS, **Crabtree BF.** Editorial. “How Do People Interpret Their Family Histories of Diabetes, Coronary Disease, or Cancer? Annals of Family Medicine. 2 (6):532-533, November/December 2004

Anderson R, **Crabtree BF, Steele DJ, McDaniel RR.** “Case Study Research: The View From Complexity Science.” Qual Health Res 2005 May;15(5):669-85.

Miller WL, Phillips WR, Acheson LS, **Crabtree BF, Zyzanski SJ, et al.** “New Knowledge for and about Primary Care: A view through the looking glass of the *Annals of Family Medicine*” Annals of Family Medicine 2005; 3(3):199.

Miller WL, **Crabtree BF.** “Clinical Research.” In N Denzin & Y Lincoln (Eds) Handbook of Qualitative Research, 3rd edition. Newbury Park: Sage, 2005

In Press

Aita V, McIlvain H, Backer E, McVea K, **Crabtree B**. “Patient-Centered care and communication in primary care practice: what is involved?” Patient Education and Counseling.

Bodenheimer T, **Young D**, Macgregor K, Holtrop J: “Practice-based research in primary care: facilitator or barrier to practice improvement?” Annals of Family Medicine .

Cifuentes M, Fernald DH, Green LA, Niebauer LJ, **Crabtree BF**, Stange KC, Hassmiller S. “Prescription for health: changing primary care practice to foster healthy behaviors.” Annals of Family Medicine .

Cohen DJ, Crabtree BF, Tallia AF, Young D: “Implementing health behavior change in primary care: Lessons from Prescription for Health.” Annals of Family Medicine .

Crabtree BF, Miller WL, **Tallia AF, Cohen DJ, DiCicco-Bloom B**, McIlvain HE, Aita VA, **Scott JG, Gregory PB**, Stange KC, McDaniel RR. “Delivery of Clinical Preventive Services in Family Medicine Offices.” Annals of Family Medicine.

Crosson JC, C Stroebel C, Scott J, Stello B, Crabtree BF. “Implementing an electronic medical record in a family medicine practice: communication, decision-making, and conflict.” Annals of Family Medicine.

Scott, JG, Tallia, A, Crosson, JC, Orzano, AJ, Stroebel, C, DiCicco-Bloom, B, O'Malley, D, Shaw, E, Crabtree, BF. "Social Network Analysis as an analytic tool for interaction patterns in primary care practices." Annals of Family Medicine.

Stroebel CK, McDaniel RR, **Crabtree BF**, Miller WL, Nutting PA, Stange KC. “How Complexity Science can inform a reflective practice improvement process.” Joint Commission Journal of Quality and Safety .

Under Review

Backer EL, Gregory P, Jaen CR, **Crabtree BF**. “A Close Look at Adult Female Health Care Maintenance Visits.” (revisions requested - Family Medicine).

DiCicco-Bloom, B, Crabtree BF. “Qualitative Interviews.” (revisions under review - Medical Education)

Flocke S, **Crabtree BF**, Stange KC. “Clinician Reflecting on Promotion of Healthy Behaviors in Primary Care Practice.” (under review - Preventive Medicine).

Hudson SV, Harris-Haywood S, Orzano AJ, Crabtree BF. “Recruitment of Minority Primary Care Community Practices into Practice-based Perspective.” (revisions requested – Medical Care)

Hudson SV, Momperousse D, Leventhal H. “Physician Perspectives on Cancer Clinical Trials and Barriers to Minority Recruitment.” (revisions requested - Cancer Control).

Isaacson N: “The Promise and Potential Problems of Online Sexuality Education for Adolescents” (revisions requested – Sexuality Research and Social Policy)

Katerndahl D, **Crabtree BF.** “Creating Innovative Research methods: The 10-Year Methodological Think Tank Experience.” (revisions requested – Annals of Family Medicine)

Nutting PA, Dickinson WP, Dickinson LM, Nelson CC, King DK, **Crabtree BF,** Glasgow RE. “**Chronic Care Model Elements Associated with High Quality Care for Diabetes**” (under review – Health Services Research)

Ohman-Strickland P, Orzano AJ, Nutting PA, Dickinson WP, Scott-Cawiezell J, **Hahn K, Gibel M, Crabtree BF.** “Measuring Organizational Attributes of Primary Care Practices: Development of a New Instrument, A New Study in the New Jersey Family Physicians Research Network.” (revisions under review – Health Services Research).

Ohman-Strickland PA, Crabtree BF. “Modeling systems with varying numbers of inputs: An application to the Ultra study (under review – Statistics in Medicine)

Solberg LI, Hroschickoski MC, Sperl-Hillen JM, Harper P, **Crabtree BF.** “Transforming Medical Care: Case Study of an Exemplar Small Medical Group” (under review, Annals of Family Medicine).

Tallia AF, Lanham H, McDaniel R, **Crabtree BF.** “What Physicians Need to Know about Work Relationships in Primary Care Practices.” (under review, Family Practice Management).

In Process

Cohen D, DiCicco-Bloom B, Flocke S. “The complexities of weight loss counseling in the primary care visit.”

Cohen DJ, Leviton L, **Tallia A, Crabtree BF, Isaacson, N.** “Using online diaries as an evaluation tool: insights from prescription for health.”

Crosson JC, Ohman-Strickland P, Hahn K, Bass C, Shaw E, O’Connell ME, **Crabtree BF.** “Divergent views of physicians and staff regarding decision-making in family medicine practices.”

Crosson JC, Hahn K, Orzano J, Crabtree BF. “Electronic medical record usage and diabetes guideline adherence: results from primary care.”

DiCicco-Bloom B, O’Malley D, Shaw E, Crosson JC, Bass C, Miller WF, McDaniel R. “The extension of the jazz metaphor to understand relationships among members of family medicine practices.”

DiCicco-Bloom B, O’Malley D, Shaw E, Crosson JC, Bass C. Frederickson, K. “The development of the concept social capital within the complexity science framework.”

Hahn K, Ohman-Strickland P, Hamilton J, Nazareth T, Crabtree B. “**Hyperlipidemia guideline adherence and the effects of and interaction between patient and physician gender.**”

Hudson SV, Ohman-Strickland P, Ferrante J, **Young D, Hahn K, Harris-Haywood S, Crabtree BF.** “Organizational Factors Associated with Cancer Screening Disparities in Primary Care Settings.”

Hudson SV, Ohman-Strickland P, Lu-Yao G, Ferrante J, Cunningham R. Orzano AJ, Crabtree BF. "Prostate-specific antigen screening in primary care practices."

Hung DY, Rundall TG, **Crabtree BF, Tallia AF, Cohen D**, Halpin, HA. "Promoting Healthy Behaviors in Primary Care: The Role of Practice Staff Participation and Clinician Attributes in Preventive Service Delivery."

Hung, DY, Rundall, TG, **Crabtree, BF, Tallia, AF, Cohen, DJ.** "Effects of Staff Participation in Decision Making on Productivity and Turnover in Primary Care Practice."

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Scott JG, DiCicco-Bloom B, Stroebel C, Stello B, Crosson JC, O'Malley D, Shaw E, Bass C, O'Connell ME, Solberg L, Gilchrist V, Jaen C, Crabtree BF. "Food for thought: How pharmaceutical representatives influence primary care physicians."

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Abstracts

Cohen DJ, DiCicco-Bloom B, Flocke SA. The Complexities of Weight Counseling in the Primary Care Visit. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

Crabtree BF, Miller WL, Balasubramanian B, Ohman-Strickland P. Using Learning Teams for Reflective Adaptation: Preliminary Results from the NHLBI-funded ULTRA Study. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

Crosson JC, DiCicco-Bloom B, O'Malley D, Shaw E, Bass C, Crabtree BF. "Electronic medical records and adherence to diabetes guidelines in primary care: a multimethod comparative case study." Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

DiCicco-Bloom B, O'Malley D, Shaw E, Crosson J. Social Capital among Nurses and Physicians in Primary Care Practices and Implications for Patient Care. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

Hahn K, Ohman-Strickland P, Hamilton J, Nazareth T, Crabtree B. Hyperlipidemia Guideline Adherence and the Effect of Patient Gender. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

Hamilton J, Roemheld-Hamm B, Young D, Jalba M, DiCicco-Bloom B, Crabtree B. Organizational Features of Family Medicine Practices which Include CAM. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

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Hudson SV, Ohman-Strickland P, Lu-Yao G, Ferrante J, Cunningham R, Orzano AJ, Crabtree BF. Prostate Cancer Screening Patterns in Primary Care Settings. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

Ohman-Strickland P, Crabtree B. Modeling systems with varying numbers of inputs: An application to the Ultra study. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

O'Malley D, DiCicco-Bloom B, Crosson J, Shaw E, Crabtree B. Initial Conditions: Understanding the Qualities of Family Medicine Practices that Promote the Integration of a Reflective Adaptive Process. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

Scott J, DiCicco-Bloom B, Cohen D, Crabtree B. Partners in healing: Doctors' and patients' experiences of healing relationships. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

Shaw EK, O'Malley D, Crosson J, DiCicco-Bloom B, Crabtree B. Exploring Family Dynamics in Family Medicine Practices. Accepted for presentation at the North American Primary Care Research Group (NAPCRG) annual conference.

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