

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

Research – Benjamin Crabtree, PhD

The vision of the **UMDNJ-RWJMS Family Medicine Research Division** is to develop and sustain a nurturing and productive research environment that fosters collaborative transdisciplinary approaches to promote the health of families and communities by improving quality of care and eliminating health-related disparities.

Message from the Director:

Normally we like to think of summer as a rather slow time of “dog days” in which we can reflect, relax, and catch up. Somehow, this summer continued at a frenetic pace for most of us, particularly with the kick-off of Round 2 of the Robert Wood Johnson Foundation Prescription for Health (P4H) evaluation; the initiation of the NCI funded SCOPE project; the hosting of retreats for ULTRA, SCOPE, and Dr. Orzano’s K08; and the convening of our external advisory committee.

The P4H evaluation team of Deb Cohen, Nicky Isaacson, Al Tallia, and Ben Crabtree officially began the Round 2 of the RWJF funded evaluation with a July meeting in Denver to meet with the NPO and other “partners” to coordinate project activities and then went the following week to Colorado Springs to participate in the grantee kick-off conference. Dr. Cohen recently received word that a supplemental grant has been funded that will extend funding for this evaluation until 2008.

Funding for our five year R01 grant from the National Cancer Institute began July 1, 2005. This project expands our intervention model by including practice “learning sessions” of clinicians and staff who will meet to discuss their experiences with improvement teams and to learn new strategies for enhancing cancer screening and counseling. The SCOPE team welcomes a new collaboration with Michelle Tropper, MPH and members of the American Cancer Society who are assisting in organizing the learning sessions. A first consultant retreat was held in August, which helped the team further refine the intervention process. This retreat was held in conjunction with the ULTRA retreat and included outside consultants Paul Nutting (Denver), Kurt Stange (Cleveland), Barbara Yawn (Rochester MN), Leif Solberg (Minneapolis), Mike Parchman (San Antonio), Carlos Jaen (San Antonio), Reuben McDaniel (Austin), and Valerie Gilchrist (Canton).

A working retreat was also convened in August to advise John Orzano on his AHRQ funded K08 award activities. Consultants included Bob Phillips (Graham Center, Washington, DC), Debbi Main (Colorado), Jill Scott (Missouri) and Sue Flocke (Cleveland). During the meeting the consultants provided Dr. Orzano with keen insights which allowed him to greatly refine and refocus the next three years of his work. They urged him to be true to the 75% time the grant has allocated to his career development and outlined a very specific, but ambitious plan.

The Division began a process of self-reflection and priority setting in July by hosting two members of our external advisory committee, Frank deGruy, MD from Colorado and James Campbell PhD from Missouri. Drs. deGruy and Campbell reviewed our progress as a Division and made recommendations for future areas of growth and focus, which we will use to stimulate our discussions at our September 19 Division retreat.

Members of the Division continued to establish national collaborations, with Ben Crabtree visiting the Duke University School of Nursing on July 20-22 and Deb Cohen and Ben Crabtree visiting Case Western Reserve University on August 1-3. The meeting in Cleveland helped to launch the NCI subcontract that Dr. Cohen has with Sue Flocke, PhD in which audio-taped patient encounters are being explored to identify “teachable moments.”

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

Several peer-reviewed publications stemming from the P4H Round 1 evaluation were published as part of a supplemental issue of the *Annals of Family Medicine*. These include a manuscript authored by Deb Cohen, with Al Tallia, Ben Crabtree, and Denise Young as co-authors, and an article authored by Thomas Bodenheimer (UCSF) on which Denise Young was a co-author, and another authored by Maribel Cifuentes on which Ben Crabtree was a co-author. Jay Crosson was the lead author on a manuscript published in the July/August issue of *Annals of Family Medicine* that looked at issues in implementing an EMR. John Scott and Ben Crabtree were co-authors with Dr. Crosson.

Denise Young has recently returned from being a visiting scholar at the Robert Graham Center for Policy Studies in Family Medicine and Primary Care in Washington, DC. Later this year, Jesse Crosson will be a Visiting Faculty Scholar at the Graham Center from December 12, 2005 to January 13, 2006 where he will be studying issues relating to the implementation and use of health information technologies in primary care practices.

Benjamin F. Crabtree, Ph.D.
Professor and Director

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

Published

Bodenheimer T, **Young D**, Macgregor K, Holtrop J: "Practice-Based Research in Primary Care: Facilitator of, or Barrier to, Practice Improvement?" *Annals of Family Medicine* 2005; 3:S28-S32

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* 2005; 3:S4-S11.

Cohen DJ, Crabtree BF, Tallia AF, Young D: "Implementing Health Behavior Change in Primary Care: Lessons from Prescription for Health." *Annals of Family Medicine* 2005; 3:S12-S19

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* 2005;3(3):307-311.

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*, 2005; 31(8):438-446

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* (in press).

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* (in press)

Hudson SV, Momperousse D, Leventhal H. "Physician Perspectives on Cancer Clinical Trials and Barriers to Minority Recruitment." *Cancer Control* (in press).

Miller WL, **Crabtree BF**: Healing landscapes: patients, relationships and optimal healing places. *J. Complementary and Alternative Med.* 2005 (in press)

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* (in press).

Solberg LI, Hroschikoski MC, Sperl-Hillen JM, Harper P, **Crabtree BF**. "Transforming Medical Care: Case Study of an Exemplar Small Medical Group" *Annals of Family Medicine* (in press)

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

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

Under Review

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

J Reteguiz, **JC Crosson**, L Robbins, C. Brazeau. “Developing a graduation OSCE: one medical school's experience. Journal of General Internal Medicine.”

JC Crosson, C Brazeau, L Boyd, J Reteguiz, J Ferrante. “A comparison of methods for eliminating the timing and order effect on final grades in a third year clerkship. Journal of General Internal 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)

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” (revisions requested – 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)

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.”

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

In Process

Crosson JC, Ohman-Strickland P, Hahn K, DiCicco-Bloom B, Orzano J, Shaw E, Crabtree BF. “The relationship between electronic medical record usage and diabetes guideline adherence in primary care practices.”

Crosson JC, DiCicco-Bloom B, Shaw E, O'Malley D, Crabtree BF. “Electronic medical records and adherence to diabetes guidelines in primary care: a multimethod comparative case study.”

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, Ferrante J, Ohman-Strickland P, Crabtree BF. "Primary care team versus individual provider impact on colorectal screening."

Hudson, SV, Bates, D. “Coder Reliability and Qualitative Software” in When Methods Meet Technology: Qualitative Data Analysis using Computer-Assisted Software, edited by R. Maietta and S. Hesse-Biber. Thousand Oaks, CA: Sage Publications.

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.”

Hung, DY, Rundall, TG, **Crabtree, BF, Tallia, AF, Cohen, DJ.** “Preventive Care Processes for Health Behaviors: Application of the Chronic Care Model in Primary Care Practice.”

Hroscikoski, MC, Solberg LI, Sperl-Hillen, JM, Harper P, **Crabtree BF.** “The challenges of change: implementing the chronic care model”

Leverence RR, Williams RL, Sussman A, **Crabtree BF.** “Obesity prevention and treatment: National guidelines through the viewfinder of clinicians in a US Southwest PBRN.”

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

In Process

Parchman ML, McDaniel RR, **Crabtree BF**. "Methodological implications of complexity theory for studying clinical microsystem redesign."

Phillips RL, Dryer M, Weyer SM, Guirguis-Blake J, **Crabtree BF**, McNellis R, Johnson-Pawlson J. The direct observation of nurse practitioners and physician assistants in primary care practice: are there differences and do they matter?

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."

Scott JG, DiCicco-Bloom B, Stello B, Crosson JC, O'Malley D, Shaw E, Bass C, O'Connell ME, Solberg L, Gilchrist V, Jaen C, Crabtree BF. "The Influence of pharmaceutical representatives on adherence to guidelines for treatment of hypertension."

Tallia A, Scott JG, DiCicco-Bloom B, Orzano AJ, O'Malley D, Shaw E, Crosson JC, Crabtree B "Comparison of Genograms and Social Network Diagrams in the Analysis of Primary Care Practices."

Grants/Contract Related Activities

Active Grants

Cohen, D., PI: "Using illness visits to address health behavior advice" NCI with CWRU (subcontract); 2004-2008; total project costs: \$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., P. Prescription for Health Independence Evaluation Unit. Robert Wood Johnson Foundation; 2004-2008; total project costs: \$963,576.

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.

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

Active 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.

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.

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.

Crosson JC. Co-Investigator. Introducing the new model of care to medical students. DHHS, HRSA. total project costs: \$516,713

Crosson JC (Co-Investigator). Translating Research into Action for Diabetes (TRIAD), CDC/NIDDK U58/CCU223529. total project costs: \$4,275,000.

This is a national multi-center study designed to determine how managed care systems influence the processes and outcomes of diabetes care.

DiCicco-Bloom, B, PI: “Patterns of nurse-physician relationships”. Funding Agency: National Institute of Nursing Research (NINR); 2005–2007; 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.

Active Grants

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

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, 2002 –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.

Tallia, A.F., PI: “Academic Administrative Units in Primary Care”, Health Resources and Services Administration; September 2005 – August 2008; total project costs: \$741,915.

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

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.

Pending grant applications (submitted)

**DEPARTMENT OF FAMILY MEDICINE
RESEARCH DIVISION MONTHLY REPORT
JULY AND AUGUST 2005**

Roemheld-Hamm, B., PI: “National Needs Assessment: Problem Physician Early Warning System”, subcontract with National Board of Medical Examiners, Funding agency: Robert Wood Johnson Foundation; 2005–2006; Subcontract total costs: \$150,453.

A subcontract that seeks to develop an evidence-based early warning system to identify and remediate at-risk practitioners who are at a high probability of causing harm to the public.

NJFMRN- (New Jersey Family Medicine Research Network)

The Network Vision is to be a premier Practice-Based Research Network and a tremendous resource to the practicing family physicians of NJ.

Moving forward with this vision the Network Board has begun a revitalization process. The name has changed and the board is evolving to include multiple physicians from family practices across the state; representatives from the Department of Family Medicine’s three medical schools (Newark, New Brunswick and Stratford); CINJ (Cancer Institute of NJ) and the NJAFP (New Jersey Academy of Family Physicians).

Currently over 40 network practices are participating in multiple grant funded projects. Some of these are ULTRA (Using Learning Teams for Reflective Adaptation); CAM (Complementary Alternative Medicine) and current enrollment for SCOPE (Supporting Colorectal Cancer Outcomes through Participatory Enhancements).

Our annual NJFMRN Practice Meeting will be on September 24th, 9:30 – 2 pm at 1 World’s Fair Drive, Somerset. Join fellow clinicians and support staff from across the state to discuss patient and practice related issues. Our guest speakers will be Paul Nutting, MD a nationally known researcher and Andy Kuziemski, RN practice manager with a large family practice

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