

**DEPARTMENT OF FAMILY MEDICINE  
RESEARCH DIVISION MONTHLY REPORT  
FEBRUARY 2007**

**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:**

After an unseasonably warm January, winter finally arrived in February with a vengeance to greet a series of outside guests making visits to our Division. The Prescription for Health Evaluation Team (Drs. Cohen, Balasubramanian, Etz, Isaacson, Tallia, and Crabtree) hosted a two-day retreat to review themes and insights that are emerging from the large volume of data collected over the last three years. The team was joined by Reuben McDaniel, EdD and Holly Lanham from the University of Texas and Elizabeth Clark, MD, MPH from the University of Iowa. The retreat focused on articulating large cross-cutting lessons that can be learned from this major Robert Wood Johnson Foundation initiative and strategies for disseminating to diverse audiences.

The NCI funded SCOPE project greatly benefited by a visit by Paul Nutting, MD, MSPH from the University of Colorado. Dr. Nutting spent two days working with Ben Crabtree and other team members on outlining manuscripts and also participated in the SCOPE Learning Session on February 24. The SCOPE Learning Session was held at CINJ and included physician and staff representing five participating SCOPE practices, as well as SCOPE facilitators Oliver Lontok and Debra Lancaster. As usual, the learning session was expertly organized and coordinated by Eric Shaw, Regina Cunningham, Terry Falco, and Enid Cruz, with wonderful help from April Allridge in putting together very professional binders. Faculty presenting at the learning session included John Scott, Eric Shaw, Regina Cunningham, Ben Crabtree, and Craig Rezac, while Shawna Hudson and Rohini Nevalekar took observational notes. This was the 1<sup>st</sup> of two learning sessions for this wave of practices, with a follow-up learning session scheduled for late April.

Members of the Research Division met with Drs. Kurt Stange and Christine Ambrosone who were making a site visit for CINJ to assess the Population Science Program. Dr. Stange, who is Associate Cancer Center Director for Prevention and Control at the Ireland Comprehensive Cancer Center in Cleveland, and Dr. Ambrosone, who is a molecular epidemiologist at the Roswell Cancer Center in Buffalo, spent two days meeting with faculty and staff from CINJ's Population Science Program and made recommendations to CINJ's Scientific Council. Since ten faculty and staff from the Research Division are active members in the Population Science Program at CINJ, we are anxiously awaiting the formal report from Drs. Stange and Ambrosone to provide further guidance on our emerging role in this important RWJMS institute.

The first-ever research division staff retreat was held on Friday, February 9th. The second in a series of strategic planning meetings for the division, it was facilitated by Christine Stroebel, MPH (a former faculty member in the research division). The group had a lively, reflective, and

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in-depth review of current issues and future directions. It was a rare chance to share insights with one another in an informal yet productive manner. The meeting notes have been summarized, shared with the staff and will be distributed at a future division meeting. Many thanks to those who put their work aside for the day to day to participate.

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

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**Published**

Hung DY, Rundall TG, **Tallia AF, Cohen DJ**, Halpin HA, **Crabtree BF**. Rethinking Prevention in Primary Care: Applying the Chronic Care Model to Address Health Risk Behaviors. *Milbank Quarterly*, 2007; 85(1):69-91.

**In Press**

**Balasubramanian BA**, Green LA, **Cohen DJ, Crabtree BF, Tallia AF, Isaacson N, Etz R**, Dodoo MS, Philips RL. Improving the Use of Patient Registries in US Primary Care Practices – Graham Center One-Pager. *Am Fam Physician* (in press).

**Cohen, DJ**. "Keywords in Qualitative Methods, Bloor, M, & Wood, F." Book Review. *Evaluation and Program Planning* (in press).

**Crosson JC, Ohman-Strickland PA, Hahn KA, DiCicco-Bloom B, Shaw E, Orzano AJ, Crabtree BF**. Use of electronic medical records and diabetes quality of care: results from a sample of family medicine practices. *Annals of Family Medicine* (in press)

**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. *Health Services Research* (in press).

Leverence RR, Williams RL, Sussman A, **Crabtree BF**. Obesity guidelines through the viewfinder of clinicians practicing in health disparity communities: A qualitative assessment. *Am J Prev Med* (in press)

**Under Review**

**Balasubramanian BA**, Demissie K, Patel RC, Vyas VH, Rhoads GG. Cancer Incidence among Asian Indian Migrants in the United States, 1988-2001 (under review – *International Journal of Cancer*)

**Cohen, DJ, Crabtree, BF**. Integration of qualitative methods into clinical research: Emergent values regarding the rigor and quality. (under review – *Annals of Family Medicine*).

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

**DiCicco-Bloom, B**, Frederickson K, **O'Malley D, Shaw E, Crosson J**: "Concept Development: Social Capital Within a Complex Adaptive System Framework" (under review: *Journal of Nursing Scholarship*)

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M Heisler, B Tabaei, R Ackerman, KV Narayan, B Waitzfelder, M Safford, C Tseng, K Duru, **JC Crosson**, B Herman, C Kim. Physicians' participatory decision-making and quality of diabetes care processes and outcomes: results from TRIAD. (under review. Journal of General Internal Medicine)

Cappiello, M., **Cunningham, R. S.**, Knopf, M. T., & Erdos, D. (2006). Breast Cancer Survivors: Information and Support Needs After Treatment. (submitted for review: Clinical Nursing Research)

Salas-Lopez D, Mouzon DM, Cespedes LM, McLaughlin C, **Hudson SV**, Natale-Pereira A. "Evaluation of a Medical Interpreter Training Program for Bilingual Dual-Role Hospital Employees" (under review: Journal of General Internal Medicine).

**Hudson SV, Ohman-Strickland P, Cunningham R, Ferrante J, Hahn K, Crabtree BF.** "The effects of teamwork and system support on colorectal cancer screening in primary care practices" (under review - Cancer Detection and Prevention)

**Orzano AJ, Scott J, Hudson S, O'Malley D, Hahn K**, Haywood-Harris S, **Falco T**, Johnson M, **Crabtree B.** Strategies for Conducting Complex Clinical Trials in Diverse Community Practices. Medical Care (under review).

**Orzano AJ**, Tallia AF, McInerney CR, McDaniel RR, Crabtree BF. Strategies for Developing a Knowledge-Driven Culture. (under review: J Family Practice Management).

**Orzano AJ, Ohman Strickland P, Tallia AF, Hudson S, Balasubramanian**, Nutting PA, **Crabtree BF.** Improving Outcomes for High Risk Diabetics: Practices' Use of Information Systems. (under review: J. American Board of Family Medicine)

**Orzano AJ**, McInerney CR, **Tallia AF**, Scharf D, **Crabtree BF.** Primary Care Practice and Knowledge Management: Development of the Concept and Implications for Enhancing Quality Care (under review: Journal of the American Society of Information Science and Technology, JASIST)

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? (revisions requested: Annals of Family Medicine).

**In Process**

**Balasubramanian BA, Orzano AJ, Ohman Strickland P, Hudson SV, Tallia AF, Crabtree BF.** The impact of a quality improvement intervention in primary care practices on staff turnover.

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**Balasubramanian BA, Tallia AF, Scott JG, Ohman Strickland P, Miller WF, Crabtree BF.** Multimorbidity in Diabetic Patients and Adherence to Screening Guidelines in Primary Care

**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, 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."

**JC Crosson, B Balasubramanian, P Ohman-Strickland,** M Roland, RL Phillips, A Bazemore, M Dodoo, C Fullwood, T Doran, **AF Tallia, JG Scott.** A comparison of US and UK family medicine practices using UK pay-for-performance standards.

**JC Crosson, P Ohman-Strickland, B Balasubramanian,** M Roland, RL Phillips, A Bazemore, M Dodoo, C Fullwood, T Doran, **AF Tallia, JG Scott.** How do different P4P schemes sort ULTRA practices?

C Brazeau, **JC Crosson.** Observation of teaching in a third year clerkship: the hidden curriculum of patient care.

MS Johnson, S Rovi, **JC Crosson,** L Boyd. Offsite mentors program: an approach to increasing research capacity.

**Cunningham, R.,** Anselmo-Murphy, A., & Vamos, D. (2007) The role of erythropoietic agents in elderly cancer patients receiving chemotherapy. (for submission to *Drugs and Aging* in June).

**Cunningham, R. Shaw, E., Hudson, S., O'Malley, D., & Crabtree, B.** Using Learning Collaboratives to enhance Colorectal Screening.

C-W Tseng, TRIAD study group, **JC Crosson.** Impact of cost on medication use and communications with physicians about cost among patients with diabetes.

**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."

**Echeverria SE** and Diez-Roux A. "Emergent Chronic Conditions" In upcoming book, "Social and Structural Factors Affecting the Health of Latino Males". Aguirre-Molina M, Borrell L, and Vega W (Eds).

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**Echeverria SE**, Diez-Roux A, Shea S, Borrell L, Jackson S. "Associations of neighborhood problems and neighborhood social cohesion with mental health and health behaviors". (To be submitted to the journal Health and Place).

**Echeverria SE** and Rhodes G. "The influence of area of residence on advanced-stage breast cancer among Black, Latina and White women living in New Jersey". Research proposal submitted to the New Jersey State Cancer Registry. Pending IRB approval.

**Hahn K**, Ferrante J, **Crosson J**, **Hudson S**, **Crabtree B**. "Associations of chronic disease flow sheet use with guideline adherence."

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

**Lancaster, D** **Crosson JC**, **Isaacson, N**. "Clinical support staff involvement in prescribing."

**Looney JA**, **Shaw E**, **Chase S**, **Stello B**, **DiCicco-Bloom B**, **Navalekar R**, **Crabtree BF**. "Passing the Torch in Quality Improvement Trials."

**Ohman Strickland PA**, **Orzano JA**, **Hudson SV**, Solberg LI, **DiCiccio-Bloom B**, **O'Malley D**, **Tallia AF**, **Balasubramanian B**, **Crabtree BF**. Association of diabetes care with presence of nurse practitioners and physician assistants in family medicine practices.

**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.

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

**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."

**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."

**Shaw E**, **Looney JA**, **Chase S**, Stello B, **Navalekar R**, **Crabtree BF**. "In the Moment: An Analysis of Facilitator Impact during a Quality Improvement Process."

**Shaw E**, **DiCicco-Bloom B**, **Crosson JC**, **Looney JA**, **O'Malley D**, **Crabtree BF**. "Understanding Family Relationships in Family Medicine Practices."

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Sussman A, Williams RL, Leverence R, Gloyd PW, **Crabtree BF**. "Using Self Determination Theory to Explain Clinical Decision Making in Primary Care"

**Tallia A, Scott JG, Diccio-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."

**Abstract Submission**

**Crosson JC, Bell DS, Isaacson N, Lancaster D**, Newman JL, McDonald EA, Schueth T. Variation in the implementation and use of e-prescribing in ambulatory settings. Submitted to Academy Health Annual Meeting.

Fyfee DC, **Hudson SV**, Fagan JK, Brown DR. Resources and Strategies for Community-Based Cancer Prevention and Control among African American and Latino Urban Males. Submitted to the American Public Health Association Annual Meeting.

**Presentation:**

**Jesse Crosson, PhD** gave a presentation at the 43<sup>rd</sup> TRIAD Steering Committee Meeting, "TRIAD Clinician Interview Study: Preliminary Findings." San Francisco, CA, February 22-23, 2007.

**Grants/Contract Related Activities**

**Active Grants**

**Cohen, D., PI: "Using illness visits to address health behavior advice" National Cancer Institute with CWRU (subcontract); 2004-2008; total project subcontract 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., PI. 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.*

**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*

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*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.*

**Crabtree, BF, PI: “New Jersey Family Physicians Research Network – Cancer Center Support Grant”, 2005 – 2010; total project costs: \$806,348.**

*This work supports the NJFPRN to offer investigators an opportunity to have direct access to community-based patients and physicians in order to translate research evidence into community-based primary care practices with a long-term vision of enhancing the quality of care patients receive in New Jersey.*

**Crabtree BF. (subcontract); "The TransforMED National Demonstration Project", American Academy of Family Physicians; 2006-2009; total project costs: \$138,977.**

*This subcontract is part of a national project which will demonstrate new knowledge about practice change; payor, patient and practice outcomes using a detailed multi-method assessment of the process of practice change in selected practices across the United States.*

**DiCicco-Bloom, B. 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.*

**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*

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*relevant organizational performance measure and to enhance his skills in survey and multimethod research approaches.*

**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; 2005–2007; 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.*

**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.F., PI: “Academic Administrative Units in Primary Care”, 1 R18 DK067083-01A2, 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; September 2005 – August 2010) 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)**

**Crabtree, B.F., PI: "Practice Redesign to Improve Depression Care – PRIDE Care"** (subcontract), Funding agency: NIMH; 2006-2010; Project total costs: \$167,732.

*This subcontract will assist the main study in a group randomized trial To evaluate a Chronic Care Improvement intervention for implementing and sustaining chronic care office systems to improve depression care in 36 small, semi-autonomous, mixed-payer community-based primary care practices.*

**DiCicco-Bloom, B, PI: "Expanding Nurse/Physician Relationships to Improve Diabetes Care".** Funding Agency: National Institute of Nursing Research (NINR)/National Institute for Diabetes and Digestive and Kidney Diseases; 2007-2012; total project costs: \$3,887,324.

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*This project is designed to build and sustain attributes of social capital among nurses and physicians to then improve overall practice relationships to enhance care of patients with diabetes. The integrated care processes that are the foundation of diabetes care make it an ideal condition for evaluating interventions seeking to enhance work relationships in primary care settings.*

**Crosson, JC, PI:** "Organizational Self-Assessment to Improve Diabetes Care in Primary Care Practices" (R 34 proposal - resubmission), Funding agency: NIDDK; July 2007 - June 2009, Project total cost: \$466,500 (submitted 11/1/06)

*To pilot test a cost-effective organizational change intervention designed to improve adherence to evidence-based diabetes treatment guidelines in primary care by improving practice level self understanding.*

**Hudson, S., PI:** "Life After Cancer: Examining Survivor Transitions from Specialist to Primary Care," National Cancer Institute; 2008-2012; total project costs \$566,036

*The overall goal of this career development application is to enable Dr. Hudson to become an independent researcher in cancer survivorship and primary care research. Using a combination of interviewing and survey research methodologies, the proposed studies build on each other to (1) explore early stage breast and prostate cancer survivors' attitudes toward primary care for follow-up cancer screening and (2) develop and validate a survey to be implemented in a study that describes primary care usage and assesses cognitive-affective, patient support and demographic factors that affect how survivors use specialists and primary care physicians for follow-up care.*