

**DEPARTMENT OF FAMILY MEDICINE  
RESEARCH DIVISION MONTHLY REPORT  
JANUARY 2006**

**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:**

Shawna Hudson couldn't wait for the New Year and brought Kara into the world at 1:34 a.m. on December 29. Mom and new baby are reportedly doing fine. Congratulations!!!!

The New Year also got off to a quick start for the Robert Wood Johnson Funded Prescription for Health Evaluation Team who flew to Scottsdale AZ on January 3 to attend a meeting of the National Program Office and investigators from each of the 10 funded projects. Throughout the meeting, team members Deb Cohen, Al Tallia, Nicky Isaacson, and Ben Crabtree met individually with each of the 10 project team members by utilizing virtually every break and meal time.

Somehow in the hustle and bustle of the fall, we neglected to celebrate Barbara DiCicco-Bloom's transition to becoming the NRSA Fellowship Director. As many of you know, Barbara first joined the Department as a NRSA fellow and then stayed on as the Associate Director, first with Bob Like and later with Ben Crabtree. As many of you also know, much of this time Barbara was essentially directing the fellowship, so this much deserved "promotion" should be an easy transition.

The Division continues its collaborative relationship with Case Western Reserve University, Lehigh Valley Hospital, University of Texas Health Sciences Center in San Antonio, and the University of Colorado as part of the AAFP Funded Center for Research in Family Practice and Primary Care. This year's Center Directors Meeting was held in Boquete, Panama, the ancestral hometown of Center Co-Director Carlos Jaen, MD, PhD. A key topic of this meeting was defining the role that the Center will play in AAFP's new initiative to implement the New Model of Care as outlined in the Future of Family Medicine report (full text of the report is available on the Annals of Family Medicine web site). We are currently negotiating a final contract with the entity that the AAFP created to coordinate the program (called TransforMED, Inc.) which will likely entail a comprehensive process evaluation of the project (more next month).

Late in the month, Dena O'Malley and Ben Crabtree attended a two-day meeting of all NHLBI Investigators funded through the RFA that funded ULTRA. The meeting, which was held in Bethesda, MD, gave Dena and Ben an opportunity to learn from other investigators who also face some common challenges. Interestingly, virtually all projects reported significant disruptions due to practices implementing electronic medical records.

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

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**New Jersey Family Medicine Research Network (NJFMRN)**

January flew by for the NJFMRN. John Orzano, MD stepped down as Medical Director to dedicate additional time to his KO8 (Capacity Building in Organizational Research) award from AHRQ (Agency for Healthcare Research and Quality). Dr. Orzano plans to remain an active Board Member of the Network. Robert Spierer, MD; Monroe Family Practice and President of the New Jersey Academy of Family Physicians was asked and accepted the position of Medical Director following consensus of the Board Members.

The Board met on January 12<sup>th</sup>, presented a Certificate of Appreciation to John for his excellence in service to the PBRN and Bob formally began his tenure as Medical Director.

Mid month, Terry Falco, Program Administrator for the NJFMRN and Erick Shaw, PhD; Director Project SCOPE (Supporting Colorectal Cancer Outcomes Through Participatory Enhancements) met with Candace Botnick, M.S., Director Office of Communications and Courtney DeNicola, Marketing Assistant for CINJ to discuss next steps in enhancing lines of communication between the institute, family practitioners and patients in the State of New Jersey.

Practice Managers met on January 25<sup>th</sup> for their quarterly meeting to address issues effecting patients, clinicians and staff in NJ. Regina Cunningham, PhD, RN; Chief Nursing Officer CINJ; Asst. Professor Family Medicine Research Division gave a presentation on “Why build a National Cancer Institute-designated Cancer Center and Network?”

A Draft Organizational/Financial Survey was distributed to the attendees for comment. Items included in the survey addressed Practice Structure; Clinicians and Staff; Patient Population; Practice Systems and Finances. This survey will be used to design a “Card Study” that was initially proposed by members at the annual practice meeting in September of 2005.

For information on participating in the NJFMRN and accessing Community Zero contact Terry Falco, Program Administrator 732-743-3387 or email falcote@umdnj.edu.

**New Postdoctoral Fellow**

Sabrina Chase, PhD joined the fellowship program on January 3, 2006. Dr. Chase received her Ph.D. in medical anthropology at Rutgers University in January 2005. Her dissertation, “Mujeres Ingeniosas [Resourceful Women]: HIV+ Puerto Rican Women and the Urban Health Care System,” traced the help-seeking pathways of urban HIV+ Puerto Rican women living in the greater Newark, New Jersey metropolitan area. In her three years of ethnographic fieldwork, Sabrina accompanied a core group of key informants to their medical and mental health care appointments and documented their use of both biomedical and CAM modalities as they utilized the health care safety net to manage their illnesses.

During this time, Sabrina also served as a consultant to the Rutgers ‘Shaping A Life’ program at Douglass College, designing classroom strategies to teach ethnographic interviewing techniques and presenting an annual keynote lecture on anthropological fieldwork.

As a fellow, Sabrina will be working with the project SCOPE (Supporting Colorectal Cancer Outcomes through Participatory Enhancements) as a facilitator. She will be collecting qualitative data in several practices and leading quality improvement teams. Sabrina also plans to revise her dissertation for publication as a book.

**Postdoctoral Fellow Completing Fellowship**

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Denise M. Young, MD joined the NRSA Fellowship on November 17, 2003. Dr. Young earned her medical degree at Howard University College of Medicine in Washington, DC., and completed her family medicine residency at the Residency Program in Social Medicine at Montefiore Medical Center in the Bronx, New York. She completed her undergraduate work at Columbia University while working part-time as a NYC Emergency Medical Technician.

During Dr. Young's two year fellowship training, she had three mentors, Benjamin Crabtree, PhD; Barbara DiCicco-Bloom RN, PhD (Qualitative) and Kitaw Demissie, MD, PhD (Quantitative). Dr. Young completed courses from the University of Medicine and Dentistry School of Public Health and she will receive her MPH degree in Epidemiology in May 2006.

While a fellow, Dr. Young worked on the qualitative analysis team for Prescription For Health, a project sponsored by AHRQ and the Robert Wood Johnson Foundation. She presented this work on Practice-based Research Networks at national and international conferences, and was a co-author on 2 manuscripts resulting from this analysis. Both were published in the summer of 2005. She participated in another qualitative study with the other current fellows in the program. The project involved primary data collection on the use of complimentary and alternative medicine in primary care practices in New Jersey.

Dr. Young's quantitative work was done through the School of Public Health. She was involved in a study that measures outcomes of newly diagnosed HIV patients in New Jersey. This study is a mixed method analysis of the testing, diagnosis and quality of care given to HIV patients, especially those in minority and underserved communities. The study is done in collaboration with the UMDNJ School of Public Health and the New Jersey Department of Health and Senior Services-HIV Division and focuses particularly on rapid HIV testing in New Jersey

During the summer of 2005, she interned at the Robert Graham Center for Policy Studies in Family Practice and Primary Care in Washington DC. Her work there, evaluated perceptions about HIV in minority communities using a national dataset from the Census Bureau and the National Center for Health Statistics. The results, once published, should call for a new approach to HIV prevention in the US.

Dr. Young completed her fellowship on November 16, 2005.

**Publications**

- 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
- 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; S12-S19

**Manuscripts in Progress:**

- Young DM, Paul S, Ibrahim A, Demissie K. "Rapid HIV Testing in New Jersey: A State-wide Primary Care Initiative"
- Young DM, Dodoo M, Demissie K, Rust G. "Perceptions of Contracting the HIV virus."

**Presentations:**

**Denalee O'Malley, Benjamin Crabtree** attended a NHLBI Investigators Meeting , January 29-31, 2006, Bethesda, MD

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**Articles Published**

**Tallia AF**, Lanham H, McDaniel R, **Crabtree BF**. “Seven Characteristics of Successful Work Relationships” Family Practice Management January 2006 Vol.13, No.1: 47-50.

**In Press**

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

**DiCicco-Bloom, B, Crabtree BF**. “Qualitative Interviews.” Medical Education (in press)

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

**Hudson SV**, Harris-Haywood S, Stange KC, **Orzano AJ, Crabtree BF**. “Recruiting Minority Primary Care Practices into Practice-Based Research” accepted for publication by Medical Care (in press)

Hung DY, Rundall TG, **Crabtree BF, Tallia AF, Cohen D**, Halpin, HA. “Influence of Practice and Provider Attributes on Preventive Service Delivery” American Journal of Preventive Medicine (in press)

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

**Orzano AJ, Tallia A**, Nutting P, Scott-Cawiezell J, **Crabtree B**. “Are Attributes of Organizational Performance Salient in Primary Care Practices?” Health Care Management Review (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)

**Under Review**

**Cohen DJ**, Leviton L, **Tallia A, Crabtree BF, Isaacson, N**. “Using online diaries as an evaluation tool: insights from prescription for health.” (revisions requested – American Journal of Evaluation)

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

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

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**Hahn K, Ohman-Strickland P, Hamilton J, Scott J, Nazareth T, Crabtree B.** “Hyperlipidemia guideline adherence and the effects of patient gender.” (under review - Journal of Women’s Health)

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.”(revisions requested – American Journal of Prev. Med)

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.” (revisions requested – Health Care Mgt Review)

Hroschik MC, Solberg LI, Sperl-Hillen, JM, Harper P, **Crabtree BF.** “The challenges of change: implementing the chronic care model” (revisions requested – Annals of Family Medicine)

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

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 requested – Health Services Research).

Sussman A, Williams RL, Leverage R, Gloyd PW, **Crabtree BF.** “The Art and Complexity of Primary Care Clinicians’ Preventive Counseling Decisions (revisions requested – Annals of Family Medicine)

**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.” (under review - Medical Care)

**In Process**

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

**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.”

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**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.”

Ferrante J, **Hahn K, Hudson S, Ohman-Strickland P, Crabtree B.** “Colorectal Cancer Screening Among Obese patients in Primary Care Practices”

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

**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, DJ.** “Preventive Care Processes for Health Behaviors: Application of the Chronic Care Model in Primary Care Practice.”

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

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

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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**, 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."

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

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

**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*

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*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.*

**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. 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.*

**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.*

**Crosson, JC, PI: "Tests of Medicare's initial electronic prescribing standards in the New Jersey e-prescribing action coalition" Subcontract (D Bell, PI) Funding Agency: Agency for Healthcare Research and Quality/Center for Medicare and Medicaid Studies. January 1, 2006 – December 31, 2006. Project total cost: \$149,756.**

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*This subcontract is to examine the effect of e-prescribing on workflow and organizational function in 12 primary care practices in New Jersey. The goal of the larger project is to provide evidence for the Department of Health and Human Services to use when setting policy regarding electronic prescribing standards.*

**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.*

**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.*

**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.*

**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*

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*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”, 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)**

**Cohen, D., PI: "An Integrated Approach to Enhancing Diet and Physical Activity (K07 Career Development Award)", Funding agency: National Cancer Institute; 2006-2011; Project total costs: \$717,863.**

*This career development award application combines research and study to develop candidate's expertise in the areas of cancer control, clinical trial research, and obesity to foster emergence as an independent investigator in sustainable and effective cancer-preventive weight control interventions By conducting a series of foundational analyses on existing, rich multimethod datasets, pragmatic communication strategies will be identified to develop integrative links of practice-and community-based strategies for engaging patients in effective diet and physical activity counseling.*

**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.*

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**Crosson, JC, PI: "Organizational Self-Assessment to Improve Diabetes Care in Primary Care Practices" (R 34 proposal), Funding agency: NIDDK; July 2006 - June 2008, Project total cost: \$466,500**

*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.*

**Crosson, JC, PI: "A UMLS Clinical Vignette Tool for Cognitive Skill Training and Assessment", Subcontract to R01 (D. Bell PI) Funding Agency: NLM; July 2006 - June 2011; Project total cost: \$187,336**

*Analyze cognitive interviews as part of the ongoing development of a software system for training physicians in diabetes management skills.*