

CENTER FOR HEALTH CARE RESEARCH AND POLICY

Progress Report
to the
Case Western Reserve University
School of Medicine
and
The MetroHealth System

EXECUTIVE SUMMARY

December, 2009

Center *for*
Health Care
Research &
Policy

Case Western Reserve University—The MetroHealth System
Center for Health Care Research & Policy
MetroHealth Medical Center
2500 MetroHealth Drive, R221
Cleveland, Ohio 44109-1998

The **Center for Health Care Research and Policy** is a community of scholars who conduct multi-disciplinary research and training in health care delivery, health care economics and policy, and clinical decision making. The Center's faculty includes 17 core physicians and doctorally-trained investigators and 9 affiliated Senior Scholars from throughout the Case Western Reserve University community. Our scholarship is supported by the MetroHealth System and a broad portfolio of federal and foundation grants for research and training. The Center's home on the second floor of the Rammelkamp Building at MetroHealth Medical Center serves as a special place where faculty and students from graduate training programs meet to conduct research and exchange ideas.

Our two-fold mission is to: "(1) improve the health of the public by conducting research that examines access to health care, increases the quality of health care services, and informs health policy and practice; and (2) lead educational programs that promote these goals."

Center faculty take special interest in these areas as they pertain to urban and disadvantaged populations. Further, we view Greater Cleveland as a laboratory for our research and training, recognizing the national relevance of regional challenges and opportunities to study and improve health care delivery and policy. For more information on the Center and our current activities, visit www.chrp.org.

FACULTY AND STAFF *
CENTER FOR HEALTH CARE RESEARCH & POLICY



Pictured (Left to Right)

David C. Kaelber, Corinna D. Falck-Ytter, Adam T. Perzynski, Shari D. Bolen, Duncan vB. Neuhauser, Richard A. McCormick, Douglas Einstadter, Julia H. Rose, Jennifer L. Bailit, Eileen L. Seeholzer, Joseph J. Sudano, Jr., Thomas E. Love, Neal V. Dawson, Rhoderick N. Machezano, Carol E. Blixen, Alfred F. Connors, Jr., Maria M. Zebrowski, Shirley Moore, Mark E. Votruba, Mary Jo Roach, Randall D. Cebul.

Not Pictured

Jeffrey A. Claridge, Robert Elson, Irene L. Katzan, Elizabeth D. McKinley, Patrick K. Murray, James B. Rebitzer, Martha Sajatovic, Ashwini Sehgal, Thomas P. Swales.

* Visit our Center website at www.chrp.org for faculty profiles.

**CENTER FOR HEALTH CARE RESEARCH & POLICY
CORE FACULTY AND STAFF – 2009**

Core Faculty

Shari D. Bolen, MD, MPH

Assistant Professor of Medicine,
Epidemiology and Biostatistics

Shari.bolen@case.edu

Research Interests: Epidemiology, systematic review and meta-analysis, health services research in obesity and diabetes.

Randall D. Cebul, MD, Director

Professor of Medicine,
Epidemiology and Biostatistics

rdc@case.edu

Research Interests: Clinical decision support; quality of care measurement and improvement, population health, clinical epidemiology, and health policy; chronic illness care and outcomes.

Alfred F. Connors, Jr., MD

Rammelkamp Professor and Chief Medical Officer
Senior Associate Dean for Medical Affairs

aconnors@metrohealth.org

Research Interests: Evaluation and measurement of patient outcomes, determining effectiveness of therapy, devices and processes of care, medical decision making, management of the seriously ill, and cost-effectiveness analysis.

Neal V. Dawson, MD

Professor of Medicine,
Epidemiology and Biostatistics
Director, Health Care Decision Making Unit

nvd@case.edu

Research Interests: Clinical epidemiology and research methods, clinical prediction rules, multivariable analyses of large databases; chronic illness and primary care screening and management.

Douglas Einstadter, MD, MPH, FACP

Professor of Medicine,
Epidemiology and Biostatistics

dxe10@case.edu

Research Interests: Use of large databases in health services research; application of Geographic Information Systems to health services research; use of informatics to improve quality of care.

Irene L. Katzan, MD, MS

Assistant Professor of Neurology
Director, Stroke Outcomes Research Program

ikatzan@metrohealth.org

Research Interests: Outcomes of stroke and other neurologic diseases; especially effectiveness of stroke therapies in the community setting, effect of medical complications on outcomes after stroke, health care utilization for stroke.

Thomas E. Love, PhD

Associate Professor of Medicine,
Epidemiology and Biostatistics
Director, Biostatistics and Evaluation Unit

Thomas.Love@case.edu

Research Interests: Statistics in health services research, observational studies and propensity score methods, quality improvement, psychometrics, statistics education.

Rhoderick N. Machezano, PhD, MPH

Assistant Professor of Medicine

Rhoderick.Machezano@case.edu

Research interests: Statistics in health care research, methods in analysis of longitudinal studies; adherence; HIV infection.

Elizabeth D. McKinley, MD, MPH

Assistant Professor of Medicine,
Biomedical Ethics and Epidemiology
and Biostatistics

Dean, Emily Blackwell Society,
Case School of Medicine

Elizabeth.McKinley@case.edu

Research Interests: Improving the process and outcomes of breast cancer care, uncertainty in breast cancer, breast cancer survivorship.

Patrick K. Murray, MD, MS

Associate Professor of
Physical Medicine and Rehabilitation
and Epidemiology and Biostatistics
Co-Director, Program on Research and
Education in Aging

pkmurray@metrohealth.org

Research Interests: Post-acute care and health care policy; outcomes of rehabilitation services in nursing homes; improving quality of life in long-term care; large databases.

Adam Perzynski, PhD

Senior Instructor of Medicine

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Research Interests: Mixed methods research, health measurement, social influences on health behavior, neighborhood disadvantage and health; structural equation and latent variable modeling, social informatics and social theory.

Mary Jo Roach, PhD

Assistant Professor of
Physical Medicine and Rehabilitation

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Research Interests: Spinal cord injury; community integration; quality of life; medical decision making.

Julia Hannum Rose, PhD
Professor of Medicine and Oncology
Co-Director, Program on Research
and Education in Aging

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Research Interests: Caregiving and decision making among the elderly and their caregivers; caregiver burden among the frail elderly, especially those with cancer.

Eileen L. Seeholzer, MD, MS

Assistant Professor of Medicine
eseeholzer@metrohealth.org

Research Interests: Health services research in populations; obesity and weight management; translating evidence-based research into practice.

Ashwini Sehgal, MD

Duncan Neuhauser Professor of
Community Health Improvement
Director, Center for Reducing Health Disparities

axs81@case.edu

Research Interests: Identifying and overcoming barriers

to quality of care, complex health interventions, adequacy of hemodialysis, nutrition in renal failure, access to kidney transplantation, medical activism.

Joseph J. Sudano, Jr., PhD

Assistant Professor of Medicine and
Epidemiology and Biostatistics

jsudano@metrohealth.org

Research Interests: Disparities in health care access, utilization and health outcomes concentrating on minorities and other vulnerable populations; social determinants of health; cross-cultural health status measurement, health related survey data.

Mark E. Votruba, PhD, MA

Associate Professor of Economics and Medicine
Schools of Management and Medicine
Director, Health Economics Research Unit

Mark.Votruba@case.edu

Research Interests: Health economics: allocation of medical resources, incentives for care, insurance markets. Public economics: social program participation, social interactions effects.

Senior Scholars

Jennifer L. Bailit, MD, MPH

Associate Professor of Reproductive Biology
Department of Obstetrics and Gynecology
MetroHealth Medical Center

jbailit@metrohealth.org

Research Interests: Assessment and improvement of obstetrical care; large datasets, birth certificate data, cost-effectiveness.

Carol Blixen, RN, PhD

Associate Professor of Medicine

Carol.blixen@case.edu

Research Interests: Clinical decision making in health care; qualitative research methods; focus groups; nursing research.

Jeffrey A. Claridge, MD

Assistant Professor of Surgery

jclaridge@metrohealth.org

Research Interests: Health care delivery research and clinical informatics for surgical decision support.

Robert B. Elson, MD

Healthcare Program Manager,
Regional Stimulus Office

OneCommunity

bob.elson@gmail.com

Research Interests: Health information technology, e-prescribing

David C. Kaelber, MD, PhD, MPH

Assistant Professor of
Internal Medicine and Pediatrics
and Chief Medical Informatics Officer

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Research Interests: Personal health records, electronic medical records, clinical decision support, telemedicine, the teaching of medical informatics to medical students and resident physicians, using electronic medical records for chronic disease detection and management, and other areas of clinical informatics, as well as research in med-peds.

Richard A. McCormick, PhD

Consultant, Clinical Psychologist

dickmccor@aol.com

Research interests: Clinical psychology; evaluation and treatment of patients with substance abuse including seriously mentally ill patients comorbid for substance abuse; psychological factors that influence health behaviors, including substance use and misuse.

Duncan vB. Neuhauser, PhD

Charles Elton Blanchard, MD
Professor of Health Management
Professor of Medicine, Epidemiology and
Biostatistics, and Family Practice

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Research Interests: Quality improvement in health care; ongoing randomization in health care research; cost-effectiveness analysis.

James B. Rebitzer, PhD
Professor and Department Chair
Boston University School of Management
james.rebitzer@case.edu
Research Interests: The economics of organizations and incentive systems, personnel economics; health economics; labor economics; behavioral economics.

Martha Sajatovic, MD
Professor of Psychiatry and of Epidemiology and Biostatistics
martha.sajatovic@UHhospitals.org
Research Interests: Illness outcomes in serious mental illness, psychopharmacology, women's mental health, immigrant/minority health, mental health rating scales.

Senior Researcher

Thomas P. Swales, PhD, ABPP
Assistant Professor of Psychiatry,
Psychology and Pediatrics
and Epic Fellow in Clinical Informatics
tswales@metrohealth.org
Research Interests: Health care delivery research and clinical research informatics in psychiatry and psychology; barriers to integrating psychiatric and general medical care.

Core Staff

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DIRECTOR'S SUMMARY



Randy Cebul

It is a pleasure for me to highlight activities and accomplishments of the CWRU-MetroHealth System *Center for Health Care Research and Policy* during 2008-09. Since last year's report, we have continued to strengthen our leadership and partnerships in multidisciplinary research and training throughout northeast Ohio, increasing our reach and community impact. New faculty and Senior Scholars are expanding our capacity in comparative effectiveness research, health information technology research and applications, and in the social and behavioral sciences. Research awards have focused increasingly on using and expanding region-wide networks to evaluate and improve outcomes of care for chronic health conditions – such as obesity, diabetes, stroke, and heart disease – using our ambulatory and hospital-based electronic medical records. Recognizing the vast research potential of our large clinical data repositories, this fall's *Center* retreat at Squire Valleevue Farm engaged faculty and guests in discussions on database applications that ranged from genetic epidemiology to behavioral economics. As this report is being finalized, we are preparing research applications in response to new federal funding opportunities in these high priority areas to better understand and improve the nation's health.

This Executive Summary includes brief descriptions of growth in Center faculty and programs during 2008-09 along with selected awards, publications, and totals of grant awards active during the current calendar year. For a detailed description of grants, training and mentorship activities, and our scholarly and community service, download our complete Progress Report at www.chrp.org.

A RECENT DEPARTURE AND NEW ARRIVALS.

We were sorry to see our valued colleague Jim Rebitzer leave CWRU for Boston last summer, although we were pleased that he sought to keep his post as Senior Scholar, making him the *Center's* first official long-distance link! Jim accepted a post as Professor of Economics and Chair of Boston University's Business Policy and Law Department in its School of Management and can be reached at rebitzer@bu.edu. We look forward to continuing our collaborations with Jim on work that highlights the economic and health implications of fragmentation in insurance markets and health care delivery systems.



Shari Bolen



Adam Perzynski

At the same time, we were delighted to grow the ranks of the *Center's* junior faculty during 2009. Shari Bolen, M.D., M.P.H., a general internist and epidemiologist, was a 2008 arrival from Johns Hopkins School of Medicine, bringing strong skills in comparative effective research with a focus on treatments for obesity and diabetes. Shari was appointed Assistant Professor of Medicine in July and was among a select group of talented applicants to receive a post-doctoral training award in multi-disciplinary clinical research through the KL2 program of the Cleveland's Clinical and Translational Science Collaborative (CTSC). Joining her in July as Senior Instructor in Medicine was Adam Perzynski, Ph.D., who recently completed his doctoral degree in medical sociology from CWRU. Adam brings strong quantitative skills to the study of social

and environmental influences on health behavior, with a special focus on chronic diseases among disadvantaged populations.



David Kaelber



Jeffrey Claridge

David Kaelber, M.D., Ph.D., M.P.H. and Jeffrey Claridge, M.D., M.S., joined the ranks of the *Center's* Senior Scholars this year and will expand our growing strengths in health information technology. After a two year hiatus at Harvard's Center for Information Technology Leadership, David returned to Cleveland to serve as MetroHealth's Chief Medical Information Officer and accept faculty positions as Assistant Professor of Medicine and Pediatrics. David's mission is to establish

Cleveland as a national leader in the research applications of electronic medical records, with a special personal commitment to applications in obesity and diabetes. Jeff joined the CWRU faculty as Assistant Professor of Surgery (trauma, bariatrics) and CTSC research trainee in 2005, completing his M.S. in Clinical Research in 2008. Jeff's research includes the use of electronic medical records data and decision support systems to improve the care and outcomes of trauma patients. Both David and Jeff are emerging as rising academic stars nationally and valued regional collaborators, assuming important leadership roles in the CTSC and cross-institutional partnerships in trauma care, respectively.

MULTI-DISCIPLINARY RESEARCH GRANTS, PUBLICATIONS, AND AWARDS

Including external awards to our faculty as Principal or Co-Principal Investigator, *Center* grants total over \$6 million during calendar 2009, including grants supporting research (\$5.5 million) and multi-disciplinary training (\$1.0 million). Reflecting our strong collaboration with others in Greater Cleveland, calendar year support for all grants totaled over \$21 million.

These grants increasingly support regional networks that use health information technology to study and improve the health status of Greater Clevelanders. Illustrative is work supported by the Centers for Disease Control and Prevention, in which Dr. Irene Katzan is

studying factors that are associated with adverse post-hospital outcomes among stroke victims hospitalized in 17 of the region's hospitals. In a partnership of primary care practices and 10 regional hospitals, the multi-stakeholder Better

EXTERNAL SUPPORT			
CENTER FACULTY AS PRINCIPAL INVESTIGATOR/CO-PI			
1/01/09-12/31/09			
	Direct Costs (DC)	Indirect Costs (IDC)	Total DC & IDC
RESEARCH	4,198,319	1,313,363	5,511,683
EDUCATION	881,870	96,922	978,792
TOTAL	\$5,080,190	\$1,410,285	\$6,490,475

Health *Greater Cleveland* program seeks to both improve ambulatory care and reduce hospital re-admissions for patients with chronic conditions. Supported principally by the Robert Wood Johnson Foundation as one of 15 "Aligning Forces for Quality" communities nationwide, *Better Health* is unique in its use of electronic medical records for measurement and its commitment to reduce health disparities and publicly report its results by insurance, race, education, and household income.

Our faculty's work is represented in 141 manuscripts published or in press during 2008-09 and an additional 41 letters, technical papers, and reviews. Publications reflect the multi-disciplinary nature and collaborations of Center faculty and include over 20 papers published with post-doctoral students as co-authors.

SELECTED AWARDS AND SPECIAL RECOGNITIONS

Mt. Sinai HealthCare Foundation: 2009 MAURICE SALTZMAN AWARD	Randall D. Cebul, M.D. Better Health <i>Greater Cleveland</i>
Ladies' Home Journal: 2009 HEALTH BREAKTHROUGH AWARD	David C. Kaelber, M.D., Ph.D., M.P.H. Using EMRs to Find High Blood Pressure in Children
Society for Medical Decision Making: 2008 BEST PAPER BY A YOUNG INVESTIGATOR	Jennifer L. Bailit, M.D., M.P.H. Mark E. Votruba, Ph.D. Medical Cost Savings Associated with 17-HP
BEST DOCTORS IN AMERICA	Alfred F. Connors (Pulmonary and Critical Care) Neal V. Dawson (General Internal Medicine) Irene L. Katzan (Neurology) Patrick Murray (Physical Medicine and Rehabilitation)
American Statistical Association 2009 ELECTED CHAIR, HEALTH POLICY SECTION	Thomas E. Love, Ph.D.
American Psychiatric Association: ELECTED DISTINGUISHED FELLOW	Martha Sajatovic, M.D.
American College of Surgery: 2009 MENTORSHIP AWARD, BEST RESIDENT PAPER	Jeffrey A. Claridge, M.D., M.S. Validation of SIC-IR to Improve ICU Outcomes
Cleveland CTSC: KL2 TRAINING AWARD	Shari D. Bolen, M.D., M.P.H. Factors Associated with Good Diabetes Outcomes
NIH-NCI: PRACTICE BASED RESEARCH NETWORK FELLOWSHIP	Eileen Seeholzer, M.D., M.S. Behavior and Obesity in the Community

Selected awards during 2008-2009 to *Center* faculty and Senior Scholars are highlighted above, including community recognition for successful region-wide partnerships and a national award for research published in *JAMA* demonstrating the use of electronic medical record systems for identifying high blood pressure in children. Other awards recognize the exceptional clinical talents of four physicians in the *Center* and our ongoing commitment to mentorship and training of students and our junior faculty colleagues.

CHALLENGES AND OPPORTUNITIES AHEAD

I write this summary at a time of profound and continuing economic challenges as well as hope. National leaders are increasingly recognizing the need for substantive health care reform and the value of building our infrastructure for health care delivery and for health-related research. Many of the themes being discussed and initiated at the federal level – including attention to payment reform, health insurance, the epidemic of chronic medical conditions, and the need to expand and “meaningfully use” health information technology - represent core values and skills of *Center* faculty. These themes and related new funding streams represent opportunities both to strengthen our regional leadership and our partnerships with others. We continue to be grateful to the MetroHealth System for its unwavering commitment to our values.



Randall D. Cebul, M.D.
December, 2009

Center for Health Care Research & Policy
Active Grants, Contracts and Non Departmental Support
Total Direct Costs (DC) & Indirect Costs (IDC)
Summary

TOTAL AWARD PERIOD				2009			
All External Support over the award period				All External Support 01/01/09-12/31/09			
	Total DC	Total IDC	Total DC & IDC	Total DC	Total IDC	Total DC & IDC	
	\$105,804,009	37,607,527	\$143,411,536	\$15,747,295	5,792,985	\$21,540,280	
Research	90,792,576	36,305,958	127,098,534	13,355,476	5,620,993	18,976,469	Research
Education	15,011,433	1,301,569	16,313,002	2,391,820	171,992	2,563,812	Education
External Support, Center Faculty as PI/Co-PI over the total award period				External Support, Center Faculty as PI/Co-PI 01/01/09-12/31/09			
	Total DC	Total IDC	Total DC & IDC	Total DC	Total IDC	Total DC & IDC	
	\$28,253,327	8,506,085	\$36,759,412	\$5,080,190	1,410,285	\$6,490,475	
Research	24,586,189	8,021,478	32,607,667	4,198,319	1,313,363	5,511,683	Research
Education	3,667,138	484,608	4,151,746	881,870	96,922	978,792	Education

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Source: Research Administration Business Office (RABO) and Case Proposal Award Database System (PADS4)

As of 11/19/09

CENTER FOR HEALTH CARE RESEARCH & POLICY

PUBLICATIONS 2008 - 2009 (Trainee authors underlined)

A. Peer Reviewed Publications

Bailit JL, Love TE. The role of race in cesarean rate case mix adjustment. *Am J Obstet Gynecol* 2008;198(1): 69.e1-5.

Bailit JL, for the NICHD MFMU Network. The MFMU Cesarean Registry: Impact of change of shift on cesarean complications. *Am J Obstet Gynecol* 2008;198(2):173.e1-173.e5. [Editor's Choice Article]

Blixen CE, Webster NJ, Hund AJ, Perzynski AT, Kanuch SW, Stoller EP, McCormick RA, Dawson NV. Communicating about alcohol consumption to nonharmful drinkers with hepatitis C: patient and provider perspectives. *J Gen Intern Med* 2008;23(3):242-247.

Stoller EP, Webster NJ, Blixen CE, McCormick RA, Perzynski AT, Kanuch SW, Kercher, **Dawson N.** Lay management of disease: Living with hepatitis C (HCV) infection. *Amer J of Health Behavior* 2008;33(4):376-390.

Stoller E, Webster N, Blixen C, McCormick R, Hund A, Perzynski A, Kanuch S, Thomas C, Kercher K, **Dawson N.** Alcohol consumption decisions among nonabusing drinkers diagnosed with Hepatitis C: An exploratory sequential mixed methods study. *J of Mixed Methods Research* 2009;3(1):65-86.

Ford JG, Howerton MW, Lai GY, Gary TL, **Bolen S,** Gibbons MC et al. Barriers to recruiting underrepresented populations to cancer clinical trials: a systematic review. *Cancer* 2008; 112(2):228-242.

Bolen SD, Samuels TA, Yeh HC, Marinopoulos SS, McGuire M, Abuid M et al. Failure to intensify antihypertensive treatment by primary care providers: a cohort study in adults with diabetes mellitus and hypertension. *J Gen Intern Med* 2008; 23(5):543-550. [Epub 2008 Jan 25]

Selvin E, **Bolen S,** Yeh HC, Wiley C, Wilson LM, Marinopoulos SS et al. Cardiovascular outcomes in trials of oral diabetes medications: a systematic review. *Arch Intern Med* 2008; 168(19):2070-2080.

Bolen SD, Bricker E, Samuels TA, Yeh HC, Marinopoulos SS, McGuire M et al. Factors associated with intensification of oral diabetes medications in primary care provider-patient dyads: a cohort study. *Diabetes Care* 2009; 32(1):25-31. [Epub 2008 Oct 17]

Samuels TA, **Bolen S,** Yeh HC, Abuid M, Marinopoulos SS, Weiner JP et al. Missed opportunities in diabetes management: a longitudinal assessment of factors associated with sub-optimal quality. *J Gen Intern Med* 2008; 23(11):1770-1777. [Epub 2008 Sep 12]

Maruthur NM, **Bolen SD, Brancati FL, Clark JM.** The association of obesity and cervical cancer screening: a systematic review and meta-analysis. *Obesity* (Silver Spring) 2009; 17(2):375-381. [Epub 2008 Nov 6.]

Qayyum R, **Bolen S,** Maruthur N, Feldman L, Wilson LM, Marinopoulos SS et al. Systematic review: comparative effectiveness and safety of premixed insulin analogues in type 2 diabetes. *Ann Intern Med* 2008; 149(8):549-559.

Nicholson W, **Bolen S,** Witkop CT, Neale D, Wilson L, Bass E. Benefits and risks of oral diabetes agents compared with insulin in women with gestational diabetes: a systematic review. *Obstet Gynecol* 2009; 113(1):193-205.

Maruthur NM, **Bolen S,** Brancati FL, Clark JM. Obesity and mammography: a systematic review and meta-analysis. *J Gen Intern Med* 2009; 24(5):665-677. [Epub 2009 Mar 1]

Bolen SD, Clark JM, Richards TM, Shore AD, Goodwin SM, Weiner JP. Trends in and patterns of obesity reduction medication use in an insured cohort. *Obesity* (Silver Spring) 2009 Jun 4. [Epub ahead of print]

Bennett WL, **Bolen S,** Wilson LM, Bass EB, Nicholson WK. Performance Characteristics of Postpartum Screening Tests for Type 2 Diabetes Mellitus in Women with a History of Gestational Diabetes Mellitus: A Systematic Review. *J Womens Health* (Larchmt) 2009 Jul 6. [Epub ahead of print].

Cebul RD, Rebitzer JB, Taylor LJ, Votruba ME. Unhealthy insurance markets: search frictions and the cost and quality of health insurance. *Amer Economic Review*. In press. Also in NBER Working Paper Series. Working paper 14455. <http://www.nber.org/papers/w14455>. October, 2008.

Cebul RD, Rebitzer JB, Taylor LJ, Votruba ME. Organizational fragmentation and care quality in the U.S. health care system. *J Econ Perspectives*. 2008; 22(4): 93-113. Also in NBER Working Paper Series. <http://www.nber.org/papers/w14212>. August, 2008.

Cebul RD. Using electronic medical records to measure and improve performance. *TransAm Clin Climat Assoc.* 2008; 119:65-76.

Claridge JA, Pang P, **Leukhardt WH,** **Golob JF,** Carter JW, Fadlalla AM. Critical analysis of empiric antibiotic utilization: establishing benchmarks. *Surgical Infections.* In press.

Leukhardt WH, **Golob JF,** McCoy AM, Fadlalla AM, Malangoni MA, **Claridge JA.** Follow up disparities after trauma: a real problem for outcomes research. *Am J Surgery.* In press.

Claridge JA, **Golob JF,** **Leukhardt WH,** Sando MJ, Fadlalla AM, Peerless JR et al. The "Fever Workup" and Respiratory Culture Practice in Critically Ill Trauma Patient. *J Critical Care.* In press.

Claridge JA, **Golob JF,** **Fadlalla AM,** D'Amico BM, Peerless JR, Yowler CJ et al. Who is monitoring your infections: shouldn't you be? *Surg Infect (Larchmt)* 2009; 10(1):59-64.

Claridge JA, **Golob JF,** Jr., **Fadlalla AM,** Malangoni MA, Blatnik J, Yowler CJ. Fever and leukocytosis in critically ill trauma patients: it is not the blood. *Am Surg* 2009; 75(5):405-410.

Fadlalla AM, **Golob JF,** Jr., **Claridge JA.** The Surgical Intensive Care-infection Registry: a research registry with daily clinical support capabilities. *Am J Med Qual* 2009; 24(1):29-34.

Golob JF, Jr., Sando MJ, Kan JC, Yowler CJ, Malangoni MA, **Claridge JA.** Therapeutic anticoagulation in the trauma patient: is it safe? *Surgery* 2008; 144(4):591-596.

Golob JF, Jr., **Claridge JA,** Sando MJ, Phipps WR, Yowler CJ, Fadlalla AM et al. Fever and leukocytosis in critically ill trauma patients: it's not the urine. *Surg Infect (Larchmt)* 2008; 9(1):49-56.

Golob JF, Jr., **Fadlalla AM,** Kan JA, Patel NP, Yowler CJ, **Claridge JA.** Validation of Surgical Intensive Care-Infection Registry: a medical informatics system for intensive care unit research, quality of care improvement, and daily patient care. *J Am Coll Surg* 2008; 207(2):164-173.

Inui T, Haridas M, **Claridge JA,** Malangoni MA. Mortality for intra-abdominal infection is associated with intrinsic risk factors rather than the source of infection. *Surgery* 2009; 146(4):654-661.

Sabe AA, **Claridge JA,** Rosenblum DI, Lie K, Malangoni MA. The effects of splenic artery embolization on nonoperative management of blunt splenic injury: a 16-year experience. *J Trauma* 2009; 67(3):565-572.

Golob JF, Jr., **Claridge JA,** Yowler CJ, Como JJ, Peerless JR. Isolated cervical spine fractures in the elderly: a deadly injury. *J Trauma* 2008; 64(2):311-315.

Chen YY, **Connors AF, Jr.,** Garland A. Effect of decisions to withhold life support on prolonged survival. *Chest* 2008; 133(6):1312-1318.

Render ML, Deddens J, Freyberg R, Almenoff P, **Connors AF, Jr.,** Wagner D et al. Veterans Affairs intensive care unit risk adjustment model: validation, updating, recalibration. *Crit Care Med* 2008; 36(4):1031-1042.

VA/NIH Acute Renal Failure Trial Network, **Palevsky PM,** **Zhang JH,** **O'Connor TZ,** **Chertow GM,** **Crowley ST,** **Choudhury D et al.** [Connors AF on Data Monitoring Committee.] Intensity of renal support in critically ill patients with acute kidney injury. *N Engl J Med.* 2008;359(1):7-20.

Ali NA, O'Brien JM, Jr., Hoffmann SP, Phillips G, Garland A, Finley JC, Almoosa K, Hejal R, Wolf KM, Lemeshow S, **Connors AF Jr.** et al. Acquired weakness, handgrip strength, and mortality in critically ill patients. *Am J Respir Crit Care Med* 2008; 178(3):261-268.

Ali NA, O'Brien JM, Jr., Dungan K, Phillips G, Marsh CB, Lemeshow S, **Connors AF Jr.** et al. Glucose variability and mortality in patients with sepsis. *Crit Care Med* 2008; 36(8):2316-2321.

Kilbridge KL, Fraser G, Krahn M, Nelson EM, Conaway M, Bashore R, Wolf A, Gong D, Nease RF, Jr., **Connors AF, Jr.** Lack of comprehension of common prostate cancer terms in an underserved population. *J Clin Oncol* 2009; 27(12):2015-2021.

Marrie RA, **Dawson NV,** Garland A. Quantile regression and restricted cubic splines are useful for exploring relationships between continuous variables. *J Clin Epidemiol* 2009; 62(5):511-517.

Dawson NV, Singer ME, Lenert L, Patterson MB, **Sami SA,** **Gosenhouser I** et al. Health state valuation in mild to moderate cognitive impairment: feasibility of computer-based, direct patient utility assessment. *Medical Decision Making* 2008;28:220-232.

Dawson NV, Gregory F. Correspondence and coherence in science: A brief historical perspective. *Judgment Decis Making* 2009;4(special issue):126-33.

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