

ANNUAL REPORT

2014

DEPARTMENT OF HEALTH MANAGEMENT AND POLICY  
**CENTER FOR HEALTH POLICY AND RESEARCH**  
COLLEGE OF PUBLIC HEALTH - UNIVERSITY OF IOWA



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26

total research projects

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\$12,625,808

total direct funding by research

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17

Center Associates

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# About the Center for Health Policy and Research

The Center for Health Policy and Research is the research arm of the Department of Health Management and Policy, and is a University-wide interdisciplinary research facility. Faculty members from the Colleges of Public Health, Medicine, Dentistry, Pharmacy, Nursing, Business, and Liberal Arts and Sciences serve as investigators in a variety of studies. Staff plus doctoral students, master's degree students, and undergraduates assist with ongoing research projects.

The Center houses numerous projects led by Center Associates. On average, 25-30 research projects are funded through the Center at any given time. Remarkably, the Center houses this level of activity without any source of core funding to offset its operation. Primary project funding comes from the National Institutes of Health (NIH), the State of Iowa, the Agency for Healthcare Research and Quality (AHRQ), the Health Resources and Services Administration (HRSA), the Patient-Centered Outcomes Research

Institute (PCORI), foundations, and private organizations.

The Center sponsors a number of educational activities. Our Friday Seminar Series showcases research updates from members of the Department, those around the University, as well as special visitors. Faculty are able to share their cutting-edge research with their Departmental and College colleagues, and doctoral students may present in order to have the opportunity to receive helpful critique and suggestions regarding

Health and greater University of Iowa community. Guest scholars of national and international repute discuss timely and timeless subjects. For example, this year, we were able to host Christy Lemark, PhD, Associate Professor of Health Policy and Management at the University of Michigan.

The Center also promotes collaboration among health organizations through frequent exchanges with professional and provider associations, policy and planning groups, insurance organizations,

***On average, 25-30 research projects are funded through the Center at any given time.***

their work. Our Visiting Scholar Series was established to bring leaders in health policy and research to the Center to present lectures and meet with faculty and students, as well as to foster dialogue among and interact with the College of Public

health delivery institutions, and other members of the health services research and policy community.

**We are delighted to bring you this 2014 Annual Report!**

# Center Associates



## **Christopher Atchison, MPA**

Clinical Professor

**Research interests:** health policy, public administration, public health, public health practice, public health systems research



## **Padmaja Ayyagari, PhD**

Assistant Professor

**Research interests:** health economics, economics of aging, applied microeconomics



## **Sue Curry, PhD**

Distinguished Professor and Dean

**Research interests:** health policy, implementation of evidence-based practice guidelines, behavioral risk factor modification, cancer prevention and control, community-based participatory research



## **Charles Fluharty, MDiv**

Clinical Professor

**Research interests:** rural policy, rural community and economic development





**Brian Kaskie, PhD**  
Associate Professor

**Research interests:** health policies pertaining to aging populations, policies and health services use by older persons, including persons with Alzheimer's disease and psychiatric illnesses



**Samuel Levey, PhD**  
Distinguished Professor

**Research interests:** organization and management of health care, health history and policy



**A. Clinton MacKinney, MD, MS**  
Clinical Associate Professor

**Research interests:** rural health policy, physician and administration relationships, patient safety and quality improvement, population-based healthcare



**Ian Montgomery, MA**  
Clinical Associate Professor

**Research interests:** developing a case-oriented text on medical practice administration



## Keith Mueller, PhD

Gerhard Hartman Professor and Head

**Research interests:** implementation of the Affordable Care Act, delivery of health-care in rural areas, rural health policy



## Dan Shane, PhD

Assistant Professor

**Research interests:** health economics, health insurance, applied econometrics, health care reform evaluations, physician incentives and health care reform



## Tanya Uden-Holman, PhD

Clinical Associate Professor

**Research interests:** workforce development, quality improvement and patient safety



## Thomas Vaughn, PhD

Associate Professor

**Research interests:** health services organization and policy, leadership and quality, organizational factors associated with effectiveness



## Marcia Ward, PhD

Professor

**Research interests:** health services, patient safety and quality, rural healthcare delivery, healthcare utilization and outcomes



**George Wehby, PhD**  
Associate Professor

**Research interests:** health economics, applied econometrics, health services research, healthcare effectiveness, maternal and child health



**Fredric Wolinsky, PhD**  
Professor and John W. Colloton Chair

**Research interests:** health-related quality of life, health and illness behavior among older adults, assessment of meaningful change in longitudinal modeling



**Brad Wright, PhD**  
Assistant Professor

**Research interests:** access to healthcare for vulnerable populations, disparities in health and health care, safety-net and primary care providers, Medicaid and Medicare, health politics and policy, health reform



**Xi Zhu, PhD**  
Assistant Professor

**Research interests:** organizational behavior, organization theory, health care policy and management, social network analysis, economic sociology

***Center Associates include faculty in the Department of Health Management and Policy and others who are principal investigators on research projects based in the Center for Health Policy and Research.***

# Center Affiliates

Lionness Ayres	College of Nursing, University of Iowa
Abby Barker	Washington University, St. Louis
Savannah Barrett	Art of the Rural
Barbara Braun	The Joint Commission
William Budelier	Epidemiology, University of Iowa
Katie Carleton	Stratis Health
Jill Scott-Cawiezell	College of Nursing, University of Iowa
Kaare Christensen	University of Southern Denmark
Jon Christianson	University of Minnesota
Andy Coburn	University of Southern Maine
Chance Finegan	Health Management and Policy
Jim Fitzpatrick	Mercy Medical Center, Sioux City
Tatiana Formina	University of Bergen
Laura Grangaard	Stratis Health
Jeff Hiris	Brown University
Michael Jones	Biostatistics, University of Iowa
Leah Kemper	Washington University, St. Louis
Teresa Kittridge	Health Management and Policy/RUPRI
Colleen Kummet	Biostatistics, University of Iowa
Rolv Lie	University of Bergen
Jorge Lopez-Camelo	ECLAMC



Jennifer Lundblad	Stratis Health
Michelle Martin	Health Management and Policy
Timothy McBride	Washington University, St. Louis
Deb McKinley	Stratis Health
Kimberly Merchant	Health Management and Policy
Vince Mor	Brown University
Lina Moreno Uribe	College of Dentistry, University of Iowa
Alan Morgan	National Rural Health Association
Ron Munger	Utah State University
Sue Nardie	University of Nebraska Medical Center
Nichole Nidey	Pediatrics, University of Iowa
David Palm	University of Nebraska Medical Center
Mariela Pawluk	ECLAMC
Dorthe Almind Pedersen	University of Southern Denmark
Roxane Pfister	Utah State University
Lisa Pollack	Washington University, St. Louis
Momotazur Rahman	Brown University
Jocelyn Richgels	Health Management and Policy/RUPRI
Chika Richter	College of Dentistry, University of Iowa
Paul Romitti	Epidemiology, University of Iowa
Diane Schaeffer	Health Management and Policy
Greg Stewart	Tippie College of Business, University of Iowa
Amal Trivedi	Brown University
Fred Ullrich	Health Management and Policy



# Center Graduate Research Assistants

## Health Management and Policy GRAs

Jure Baloh	Bryant Conkling
Aaron Horsfield	Nicholas Howald
Min Jee Lee	Steven Johnson
Yeunkyung Kim	Stephanie Kraft Sheeley
Nabil Natafqi	Matthew Nattinger
Kwame Nyarko	Zach Oswald
Anastasios Papachristoudis	Andrew Potter
Adam Price	Lindsey Reed
Abiodun Salako	Darcelle Skeete
Erik Skinner	Christopher Stamy
Katherine Swanic	Patience Ugwi
Jeralyn Westercamp	Nicole Westergaard
Katherine Westfall	Shawn Zierke

## GRAs from outside Health Management and Policy

Matthew Andersson	Sociology
Isaac Hooley	College of Education
Yiyue Lou	Biostatistics
Kirstin Manges	College of Nursing
Kevin Matthews	Geographical and Sustainability Sciences
Lauren Slagel	College of Nursing
Mark Walker	Sociology

*Graduate Research Assistants are students in master's and PhD programs who receive a portion of salary support from research projects based in the Center for Health Policy and Research.*

# Rural Policy Briefs from the



## **Medicare Accountable Care Organizations: Program Eligibility, Beneficiary Assignment, and Quality Measures**

A. Clinton MacKinney, MD, MS; Keith J. Mueller, PhD; Xi Zhu, PhD; Thomas Vaughn, PhD

The Patient Protection and Affordable Care Act 2010 (ACA) established a Medicare Shared Savings Program (MSSP) and accompanying Medicare ACOs to “facilitate coordination and cooperation among providers to improve the quality of care for Medicare fee-for-service beneficiaries and reduce unnecessary costs.” This RUPRI Policy Brief describes how ACOs should review MSSP eligibility and participation requirements, beneficiary assignment processes, and quality measures.

## **Extent of Telehealth Use in Rural and Urban Hospitals**

Marcia M. Ward, PhD; Fred Ullrich, BA; Keith Mueller, PhD

Using the 2013 HIMSS Analytics database, this RUPRI Policy Brief reports that 34.0% of rural hospitals and 32.0% of urban hospitals had at least one telehealth application currently in use. While rural and urban hospitals did not differ significantly in overall telehealth implementation rates, rural hospitals were more likely than urban hospitals to have implemented telehealth in radiology departments and in emergency/trauma care. Urban hospitals were more likely than rural hospitals to have implemented telehealth in cardiology/stroke/heart attack programs, neurology, and obstetrics/gynecology/NICU/pediatrics.



## **Trends in Hospital Network Participation and System Affiliation, 2007-2012**

Xi Zhu, PhD; Fred Ullrich, BA; Keith J. Mueller, PhD, A. Clinton MacKinney, MD, MS; Thomas Vaughn, PhD

This RUPRI Policy Brief tracks trends in network participation and system affiliation among U.S. general community hospitals from 2007 to 2012. Network participation increased in larger hospitals, non-government not-for-profit hospitals, and metropolitan hospitals. While system affiliation generally increased in hospitals of all sizes and types, it was notably higher among mid-sized and large hospitals, investor-owned hospitals, and metropolitan hospitals.

## **Update: Independently Owned Pharmacy Closures in Rural America, 2003-2013**

Fred Ullrich, BA; Keith J. Mueller, PhD

Pharmacists provide a range of health services and losing them can have serious implications for the provision of health care, especially in rural areas. Previous RUPRI Policy Briefs have documented the decline in the number of independently owned pharmacies in rural areas, especially between 2003 and 2010. This Brief shows the number of independently owned rural pharmacies has continued to slowly decline through 2013.





# RUPRI Center for Rural Health Policy Analysis



## ***The Effect of Medicare Payment Policy Changes on Rural Primary Care Practice Revenue***

Paula Weigel, PhD; A. Clinton MacKinney, MD, MS; Fred Ullrich, BA; Keith J. Mueller, PhD

This RUPRI Policy Brief describes the impact of recent Medicare payment updates to the Geographic Practice Cost Indices (GPCIs) portion of the Medicare Physician Fee Schedule on rural primary care providers' practice revenue from Medicare. We developed a revenue model to derive estimates of Medicare-related average revenue in 2013 and change-in-average-revenue percentage due to the GPCI updates for 50 non-metropolitan localities. We found that changes to the GPCIs made between January 1, 2013 and March 31, 2014 resulted in an average 0.12% (median 0.18%) increase in Medicare-derived revenue to rural primary care practices.

## ***Facilitating the Formation of Accountable Care Organizations in Rural Areas***

Jure Baloh, MHA; Xi Zhu, PhD; Tom Vaughn, PhD; A. Clinton MacKinney, MD, MS; Keith J. Mueller, PhD; Fred Ullrich, BA; Matthew Nattinger, MS

This RUPRI Policy Brief presents characteristics contributing to the formation of four accountable care organizations (ACOs) that serve rural Medicare beneficiaries, one in each of the four census regions. Four organizational characteristics emerged as influential in the formation of these ACOs: 1) previous organizational integration experience; 2) experience in risk-sharing arrangements; 3) information technologies, especially shared electronic health records; and 4) developing partnerships with health and human services organizations in local and regional communities.



## ***Rural Implications of the Blueprints for State-Based Health Insurance Marketplaces***

Andy Potter, MA; Matt Nattinger, MS; Keith J. Mueller, PhD

This RUPRI Policy Report describes features of states' Blueprints to operate state-based insurance Marketplaces that have particular relevance to rural areas. This paper presents different states' approaches to service areas and rating areas, network adequacy requirements, rural consumer outreach, rural representation on the Marketplace governing board, certification and oversight of Qualified Health Plans, and design of the Small Business Health Options Program (SHOP).



**RURAL POLICY RESEARCH INSTITUTE**



Funded by the Federal Office of Rural Health Policy  
[www.ruralhealthresearch.org](http://www.ruralhealthresearch.org)

# Research Projects

## STUDIES FOCUSED ON RURAL HEALTH POLICY

### **Rapid Response to Requests for Rural Data Analysis and Issue Specific Rural Research Studies**

University of North Carolina at Chapel Hill/US Department of Health & Human Services, Health Resources & Services Administration

Principal Investigator: Keith Mueller

Co-Investigator: A. Clinton MacKinney

Direct Funds: \$571,771 | Funding Period: 2010 - 2015

The RUPRI Center will track enrollment into Medicare Advantage Plans, track availability of Part D Plan Options, track rural pharmacy closures, and provide analysis of Medicare physician payment policy

### **RAC Cooperative Agreement**

University of North Dakota

Principal Investigator: Charles Fluharty

Direct Funds: \$90,302 | Funding Period: 2014 - 2015

RUPRI will continue ongoing efforts from the original submission, while also increasing effort around new areas of emphasis for RAC. This work will include: human services research, indicators and data needs framework; information and technical outreach support; enhancing the rural understanding of social determinants of health.

### **Rural Health Research Center - Cooperative Agreement Program**

US Department of Health & Human Services, Health Resources & Services Administration

Principal Investigator: Keith Mueller

Co-Investigators: A. Clinton MacKinney, Thomas Vaughn, Marcia Ward

Direct Funds: \$3,244,552 | Funding Period: 2010 - 2016

The purpose of this award is to establish the Rural Health Research Center-Cooperative Agreement Program at the University of Iowa--RUPRI Center.

### **Rural Health System Analysis and Technical Assistance Cooperative Agreement**

US Department of Health & Human Services, Health Resources & Services Administration

Principal Investigator: Keith Mueller

Co-Investigators: A. Clinton MacKinney, Thomas Vaughn, Xi Zhu

Direct Funds: \$1,375,195 | Funding Period: 2012 - 2015

The purpose of this project is to analyze rural implications of changes in the organization, finance, and delivery of healthcare services in the US and to assist rural communities and providers transition to a high performance rural health system.

### **Rural Policy Analysis Cooperative Agreement**

University of Missouri-Columbia/US Department of Health & Human Services, Health Resources & Services Administration

Principal Investigator: Keith Mueller

Co-Investigator: A. Clinton MacKinney

Direct Funds: \$198,375 | Funding Period: 2012 - 2014

The RUPRI Health Panel will continue its analysis of proposals to reform health care delivery and finance in the US. Our work will produce brief analytical papers (ranging from quick analysis products to policy briefs) that the Office of Rural Health Policy will disseminate through its website and the reform website of the DHHS.

### ***“Shaping Our Appalachian Region” (SOAR) Administrative/Consultant Support***

Kentucky Office of the Governor, Department of Local Government

Principal Investigator: Charles Fluharty

Direct Funds: \$227,273 | Funding Period: 2014 - 2015

Design, develop and conduct the 2015 SOAR Summit; develop SOAR as an organization; provide strategic leadership and also provide administrative services regarding executive committee and working group meetings; outreach for SOAR beneficiary communities; and develop and maintain the SOAR website.

### ***Supporting the Policy Advisory Activities of the Health Panel, Rural Policy Research***

The Leona M. and Harry B. Helmsley Charitable Trust

Principal Investigator: Keith Mueller

Direct Funds: \$366,456 | Funding Period: 2012 - 2015

This funding supports the work of the RUPRI panel whose aim is to spur public dialogue and help policymakers understand the rural impacts of public policies and programs.

## **RUPRI Paper Provides Model for Affordable, Accessible Health Care in Rural Communities**



A high-performance rural health care system, incorporating principles of affordability, accessibility, community focus, high quality, and patient centeredness, could be built upon existing rural primary care services, according to a new policy paper from the Rural Policy Research Institute (RUPRI) Health Panel, chaired by Keith Mueller.

In the paper and accompanying brief, “Advancing the Transition to a High Performance Rural Health System,” the RUPRI Health Panel recommends a range of alternative approaches to achieve a high performance health care system, and builds on the panel’s earlier work that conceptually defined the core elements of such a model.

The panel categorizes approaches to achieve its goal of an improved health system into four basic groupings: community-appropriate health system development and workforce design; governance and integration approaches; flexibility in facility or program designation to care for patients in new ways; and financing models that promote investment in delivery system reform.

In addition, each of the four approaches includes a brief discussion of policy considerations and comments about demonstration ideas that can further these approaches. The RUPRI Health Panel was established in 1993 to provide unbiased analysis and information on the challenges, needs, and opportunities facing rural America. RUPRI’s aim is to spur public dialogue and help policymakers understand the rural impacts of public policies and programs. RUPRI’s reach is national and international and it is one of the world’s preeminent sources of expertise and perspective on policies impacting rural places and people.

Funding for this project was provided by The Leona M. and Harry B. Helmsley Charitable Trust.

## STUDIES OF HEALTH CARE DELIVERY AND USE

### **Evaluation of TeamSTEPPS™ Implementation for Community Hospital Patient Safety**

US Department of Health & Human Services, Agency for Healthcare Research & Quality

Principal Investigator: Marcia Ward

Co-Investigators: Jill Scott-Cawiezell, Greg Stewart, Thomas Vaughn, Gideon Zamba, Xi Zhu

Direct Funds: \$1,688,098 | Funding Period: 2010 - 2015

This study is designed to retrospectively and prospectively evaluate the elements of the TeamSTEPPS approach including organizational readiness, culture, training effectiveness, implementation strategies and fidelity, staff behaviors, burden/cost, and outcomes in community hospitals to identify the elements that are most important for success.

### **New Faculty Research Award: Temporary Disruptions in Health Insurance and Emergency Department Utilization**

UI College of Public Health

Principal Investigator: Dan Shane

Direct Funds: \$10,000 | Funding Period: 2014

This project will investigate the impact of temporary gaps in health insurance coverage on emergency department utilization. We will examine whether temporary disruptions result in differing patterns of emergency department utilization as compared to continuously uninsured individuals and continuously insured individuals. We also classify emergency department contacts into emergency and non-emergency visits to further characterize the effect of temporary versus continuous lack of health insurance coverage.

## Wright Studying Variations in Observation Care



Each year, about 1 million Medicare beneficiaries who visit the emergency room find themselves held for observation rather than being admitted to the hospital. Researchers have found the rate of observation care—a hospital-based outpatient service used to evaluate and treat acutely ill patients for extended periods—has increased nationally over the past decade, and it has become a common alternative to full hospitalization. This outpatient care saves hospitals money, but does it benefit the patient?

According to Brad Wright, UI, critics suggest observation care costs patients more and may result in reduced quality of care. Previous studies also point to racial and geographic variations in the use of observation care. In a national study funded by the National Institute on Aging, Wright and colleagues from

Brown University and the University of Michigan will analyze Medicare claims data from 2007-2011 to determine the causes and consequences of racial and geographic disparities in observation care among Medicare patients.

Wright will also investigate whether observation care leads to better or worse health outcomes, examining mortality rates and how many patients return to the emergency department or get readmitted within 30 or 90 days.

Funding for this project was provided by US Department of Health & Human Services, NIH



### ***Telligen: Quality Improvement and Patient Safety Activities in Iowa's Critical Access Hospitals***

Iowa Department of Public Health

Principal Investigator: Marcia Ward

Direct Funds: \$9,191 | Funding Period: 2014

Project conducts the evaluations of all Iowa TeamSTEPPS-trained CAHs and develops a report of the outcomes, barriers, lessons learned, and successes, and presents findings at QI Coordinator meetings.

### ***Understanding Racial and Geographic Disparities in Hospital Observation Care***

US Department of Health & Human Services, National Institute of Health

Principal Investigator: Brad Wright

Direct Funds: \$345,845 | Funding Period: 2014 - 2016

The overall objective of this longitudinal, claims-based study is to understand the causes of racial and geographic disparities in the use of observation care among Medicare fee-for-service beneficiaries and the implications of these disparities for patient-centered outcomes.

### ***VA-IPA Wright***

US Department of Veterans Affairs, Iowa City Veterans Affairs Medical Center

Principal Investigator: Brad Wright

Co-Investigator: Padmaja Ayyagari

Direct Funds: \$113,457 | Funding Period: 2013 - 2014

Serve as Project Lead for two Veterans Rural Health Resource Center projects titled "FQHC Availability and Variation in VA Outpatient Care" and "Trends and Variation in Observation Care at VA Hospitals."

### ***Program Evaluation of AHA's STEMI Program in South Dakota***

American Heart Association, The Leona M. and Harry B. Helmsley Charitable Trust

Principal Investigator: Marcia Ward

Co-Investigator: A. Clinton MacKinney, Kimberly Merchant, Keith Mueller

Direct Funds: \$137,082 | Funding Period: 2012 - 2014

### ***Program Evaluation of AHA's STEMI Program in North Dakota***

American Heart Association, The Leona M. and Harry B. Helmsley Charitable Trust

Principal Investigator: Marcia Ward

Co-Investigator: A. Clinton MacKinney, Kimberly Merchant, Keith Mueller

Direct Funds: \$100,000 | Funding Period: 2012 - 2014

### ***Program Evaluation of AHA's STEMI Program in Wyoming***

American Heart Association, The Leona M. and Harry B. Helmsley Charitable Trust

Principal Investigator: Marcia Ward

Co-Investigator: A. Clinton MacKinney, Kimberly Merchant, Keith Mueller

Direct Funds: \$118,181 | Funding Period: 2013 - 2015

### ***Program Evaluation of AHA's STEMI Program in Minnesota***

American Heart Association, The Leona M. and Harry B. Helmsley Charitable Trust

Principal Investigator: Marcia Ward

Co-Investigator: A. Clinton MacKinney, Kimberly Merchant, Keith Mueller

Direct Funds: \$154,544 | Funding Period: 2013 - 2016

The American Heart Association's Mission: Lifeline is a national, community-based initiative. Its goals are to improve quality of care and outcomes in heart attack patients and improve healthcare system readiness and response. In particular, this initiative aims to increase the number of patients with timely access to reperfusion by addressing the continuum of care for ST-segment-elevation myocardial infarction (STEMI). These projects conduct a qualitative program evaluation of the progress toward implementation of this initiative throughout each of the states listed.

## STUDIES ACROSS THE LIFESPAN - CHILDREN AND ADOLESCENTS

### **Academic Achievement of Children and Adolescents with Oral Clefts**

US Department of Health & Human Services, National Institutes of Health

Principal Investigator: George Wehby

Co-Investigator: Paul Romitti

Direct Funds: \$210,220 | Funding Period: 2011 - 2015

This study will identify the impacts of NS cleft lip/palate on the educational achievement of children and adolescents with oral clefts and assess how these impacts vary by socioeconomic, demographic, and health backgrounds.

### **Genetic Instrumental Variable Studies of Maternal Risk Behaviors for Oral Clefts**

US Department of Health & Human Services, National Institutes of Health

Principal Investigator: George Wehby

Co-Investigators: Lina Moreno Uribe, Paul Romitti

Direct Funds: \$1,916,503 | Funding Period: 2010 - 2015

The objective of this study is to estimate the effects of maternal risk behaviors during pregnancy including smoking, obesity, alcohol, and caffeine use on cleft lip/palate risks using a genetic instrumental variable (IV) model that accounts for unobserved confounders.

### **Gestational Age, Metabolic Markers, and Academic Achievement**

Bill and Melinda Gates Foundation

Principal Investigator: George Wehby

Direct Funds: \$100,000 | Funding Period: 2014 - 2016

This study will evaluate differences in academic achievement by gestational age and metabolic markers and develop a model to predict gestational age based on metabolic markers using population-level data from Iowa.

### **Identifying Determinants of Birth Outcomes in South America**

US Department of Health & Human Services, National Institutes of Health

Principal Investigator: George Wehby

Direct Funds: \$102,227 | Funding Period: 2010 - 2015

This project aims at identifying determinants of adverse birth outcomes including low birth weight, preterm birth, and intrauterine growth restriction in several understudied South American populations. Study results are highly relevant for identifying prevention strategies not only for the included countries but also for others including the United States.

### **Improving Knowledge and Understanding of Appropriate Treatment of Orofacial Clefts**

Operation Smile, Inc.

Principal Investigator: George Wehby

Direct Funds: \$35,775 | Funding Period: 2012 - 2015

Investigate barriers of access to treatment and care for individuals with orofacial clefts in the United States by conducting a comprehensive review of available knowledge and publications to assist with the creating of effective strategies to improve access to health care services for children with orofacial clefts.

## STUDIES ACROSS THE LIFESPAN - OLDER POPULATIONS

### ***Evaluating the Impact of Social Security Benefits on Health Outcomes among the Elderly***

Boston College, Social Security Administration

Principal Investigator: Padmaja Ayyagari

Direct Funds: \$40,208 | Funding Period: 2014 - 2015

The purpose of this project is to determine the impact of Social Security benefits on a wide array of health outcomes including depression, disability, cardiovascular disease, and cognitive function. The project will also evaluate heterogeneity in the impact of income by education, race, ethnicity, and baseline health status.

### ***Methodologies to Adjust for Respondent Status Effects on Health Outcomes***

Patient-Centered Outcomes Research Institute (PCORI)

Principal Investigator: Fredric Wolinsky

Co-Investigator: Michael Jones, George Wehby

Direct Funds: \$464,095 | Funding Period: 2012 - 2014

We propose to gain a better understanding of respondent status effects on the measurement of health and health outcomes of older adults and the identification of their risk factors.

### ***The Iowa Study on Promoting Successful Aging within Academic Institutions: Phase III***

Teachers Insurance & Annuity Association - College Retirement Equities Fund (TIAA-CREF)

Principal Investigator: Brian Kaskie

Direct Funds: \$52,127 | Funding Period: 2013 - 2015

Our goal is to contribute to the development of a retirement-readiness design process for institutions of higher education.

## Wehby and Colleagues Win Gates Foundation Grand Challenge Explorations Initiative



George Wehby will lead a project funded by the Bill and Melinda Gates Foundation to evaluate newborn metabolic biomarkers for their ability to predict gestational age, and identify associations between them and long-term academic achievement.

The project will analyze existing data on gestational age, newborn metabolic profiles and academic tests from the population of children born in Iowa over the past three decades and will identify the most predictive biomarkers of gestational age and academic achievement. The investigators will also evaluate how much metabolic markers explain differences in educational achievement by gestational age. In the future, they will expand their method to developing countries to help estimate gestational age and identify newborns at risk of neurodevelopmental

impairments and poor academic achievement.

Other University of Iowa investigators and collaborators include Kelli Ryckman, assistant professor of epidemiology; the State Hygienic Laboratory at the University of Iowa; and Iowa Testing Programs, a research, development, and outreach unit in the University of Iowa College of Education.

Funding for this project was provided by The Gates Foundation Grand Challenges Explorations Initiative.

## STUDIES FOCUSED ON TELEHEALTH

### **Assessing the Impact of e-Health Services in Rural Settings**

The Leona M. and Harry B. Helmsley Charitable Trust

Principal Investigator: Marcia Ward

Co-Investigators: Padmaja Ayyagari, A. Clinton MacKinney, Keith Mueller

Direct Funds: \$900,013 | Funding Period: 2011 - 2014

This project determines the impacts of telehealth care in Avera Health hospitals on the delivery of services, patient satisfaction, provider use, and cost of care.

### **Evidence-Based Tele-emergency Network Grant Program - Developing Outcome Measures and Associated Data Elements for Emergency Medical Services Using Telehealth Technology**

Mathematica Policy Research/US Department of Health & Human Services, Health Resources & Services Administration

Principal Investigator: Marcia Ward

Co-Investigator: A. Clinton MacKinney, Keith Mueller

Director Funds: \$54,318 | Funding Period 2014 – 2015

Study evidence-based tele-emergency technology. Develop outcome measures and associated data elements for emergency medical services using telehealth technology.

## Study Looks at Complexity of Cancer Treatment Decisions



Despite advances in the treatment of many cancers, a number of patients choose not to be treated. In Iowa, more than 12 % of those who learn they have cancer don't pursue treatment, according to research led by Marcia Ward in collaboration with Fred Ullrich and others.

The researchers originally were focused on identifying the location of cancer specialists across the state and whether there were gaps in patient access to cancer treatment. While analyzing data from the Iowa Cancer Registry, the team was surprised to find that so many Iowans did not pursue treatment within the first year after diagnosis.

Along with the expected factors of advanced age or advanced stage of cancer, rates of non-treatment were also higher in patients who visited non-accredited cancer facilities and those who saw physicians who were not cancer specialists. Individuals with certain types of cancers that are known to progress slowly were less likely to pursue treatment, including stage 2 prostate cancer and non-Hodgkin lymphoma. While distance to treatment facilities did not seem to be a factor, rural Iowans were less likely to choose treatment.



Funding for this project was provided by The American Society of Clinical Oncology.



# Presentations by CHPR Associates

Atchison, C. G., "State Hygienic Laboratory Report," State Board of Health Meeting, State of Iowa, Des Moines, IA. (July 2014).

Ayyagari, P., Shane, D., "Does Prescription Drug Coverage Improve Mental Health? Evidence from Medicare Part D," Midwest Health Economics Conference, Champaign, IL. (May 2014).

Fluharty, C., "Current Rural Policy Dynamics, in an Urban Hegemony," Extension Service Committee on Policy, Social Sciences Subcommittee, Washington, DC. (February 2014).

Fluharty, C., "Economies in Transition: Charting the Path Forward for Coal Dependent Regions: Lessons Learned from SOAR and IRRRB," WVU Energy Conference, WVU College of Law, Morgantown, WV. (February 2014).

Fluharty, C., "Broadband Needs, Challenges, and Opportunities in Rural America," Rural Broadband Workshop, Federal Communications Commission, Washington, DC. (March 2014).

Fluharty, C., "Rethinking Rural Policy & Practice: The Rural/Urban Dialectic, in a Disruptive Milieu," New River Valley Planning District Commission, Radford, VA. (March 2014).

Fluharty, C., "The SOAR Leadership Challenge," East Kentucky Leadership Foundation, Somerset, KY. (April 2014).

Fluharty, C., "SOAR Organizational Development Update," Shaping Our Appalachian Region Executive Board, Lexington, KY. (May 2014).

Fluharty, C., "Recommitting to Rural America: The Expanding Crisis for Rural Poverty and its Effects," Council on Foundations, 2013 Philanthropy Exchange, Washington, DC. (June 2014).

Fluharty, C., "Sustaining Rural America for Our Future: The Role of APLU Universities," American Public Land Grant Universities Council on Government Affairs, Omaha, NE. (August 2014).

Fluharty, C., "SOAR as an Exemplary Collective Impact Success," Grant Makers of Kentucky, Louisville, KY. (August 2014).

Fluharty, C., "Next Generation Leadership in Creative Placemaking," Wisconsin Fermentation Fest, Woolen Mill Gallery, Reedsburg, WI. (October 2014).

Fluharty, C., "Transition Issues in Appalachia and other Coalfield Communities: A Solution Story," Energy Sector Transition Meeting, Washington, DC. (October 2014).

Fluharty, C., "Thinking Bigger About Smaller Places: "Adjacent Possible" Design Thinking and Collective Impact Investing for Healthier Rural People and Communities," Transforming Safety and Health in the Heartland Conference, Ankeny, IA. (November 2014).

Fluharty, C., "Philanthropic Investment in Rural America: The Real Story and How We Can Change It," HAC Rural Housing Conference, Washington, DC. (December 2014).

Kaskie, B., "Successful Aging in Academic Institutions," Association for Gerontology in Higher Education, Denver, CO. (March 2014).

Kaskie, B., "Patient Protection and Affordable Care Act," Iowa Community Educators, Davenport, IA. (June 2014).

Kaskie, B., "Medicare and Medicaid Reform," UI Carver College of Medicine: Iowa Medical Society Student Chapter, Iowa City, IA. (September 2014).

Kaskie, B., "Protection Policies in Assisted Living," Gerontological Society of America, San Diego, CA. (November 2014).

Kaskie, B., "Stemming the Rising Tide of Firearm Suicide in Older Age," Gerontological Society of America, San Diego, CA. (November 2014).

Kaskie, B., "Who are the Gerontologists in Gerontology," Gerontological Society of America, San Diego, CA. (November 2014).

MacKinney, A. C., "Medical Staff Roles in Accountable Care Organizations," Medical Staff Meeting, National Rural ACO, Sandusky, MI. (January 2014).

MacKinney, A. C., "Medical Staff Roles in Accountable Care Organizations," Medical Staff Meeting, National Rural ACO, Lincoln, MI. (January 2014).

MacKinney, A. C., "Medical Staff Roles in Accountable Care Organizations," Medical Staff Meeting, National Rural ACO, Lone Pine, CA. (January 2014).

MacKinney, A. C., "Medical Staff Roles in Accountable Care Organizations," Medical Staff Meeting, National Rural ACO, Ridgecrest, CA. (January 2014).

MacKinney, A. C., "Medical Staff Roles in Accountable Care Organizations," Medical Staff Meeting, National Rural ACO, Mammoth Lakes, CA. (January 2014).

MacKinney, A. C., "Medical Staff Roles in Accountable Care Organizations," Medical Staff Meeting, National Rural ACO, Bishop, CA. (January 2014).

MacKinney, A. C., "Transitioning to a Value-Based Health Care Future," Healthy Counties, National Association of Counties, San Diego, CA. (January 2014).

MacKinney, A. C., "Rural Health Strategies for a Value-Based Future," WIPFLI CAH and RHC Conference, WIPFLI, Bloomington, MN. (February 2014).

MacKinney, A. C., "Medical Staff Roles in Accountable Care Organizations," Medical Staff Meeting, National Rural ACO, Batesville, IN. (February 2014).

MacKinney, A. C., "Medical Staff Roles in Accountable Care Organizations," Medical Staff Meeting, National Rural ACO, Logansport, IN. (February 2014).

MacKinney, A. C., "3 Myths of Health Care Reform," Health Advisory Subcommittee, Oregon Association Hospitals and Health Systems, Redmond, OR. (March 2014).

MacKinney, A. C., "Rural Health Strategies for a Value-Based Future," Alaska Rural Health Conference, ASHNHA, Anchorage, AK. (April 2014).

MacKinney, A. C., "Telehealth Evidence (reactor to presentations)," Telehealth and the Triple Aim, Center for Connected Health Policy, Sacramento, CA. (April 2014).

MacKinney, A. C., "The Times They Are a-Changin'," Lunch and Learn, Charles Cole Memorial, Coudersport, PA. (September 2014).

MacKinney, A. C., "The Times They Are a-Changin'," Hawaii Medicare Rural Hospital Flex Program Conference, Hawaii Department of Health, Kauai, HI. (October 2014).

MacKinney, A. C., "Delivering Healthcare Value to Iron Mountain," Dickinson County Health System Medical Staff, Dickinson County Health System, Iron Mountain, MI. (October 2014).

Mueller, K. J., McBride, T., "ACO and Exchanges Update from the RUPRI Center," Annual Rural Health Policy Institute, National Rural Health Association, Washington, DC. (February 2014).

Mueller, K. J., "Rural Strategies for a Value-Based Future in Health Services," Northwest Regional Rural Health Conference, Northwest Regional Health Association, Spokane, WA. (March 2014).

Mueller, K. J., "Critical Access Hospitals as Change Agents," Critical Access and Rural Hospital Forum, Iowa Hospital Association, Des Moines, IA. (April 2014).

Mueller, K. J., McBride, T., Coburn, A., "An Assessment of the Implementation of the Affordable Care Act," Annual Rural Health Conference, National Rural Health Association, Las Vegas, NV. (April 2014).

Mueller, K. J., "Rural Strategies for a Value-Based Future in Health Services," Critical Access Hospital and Rural Health Clinic Conference, WIPFLI CPs and Consultants, Branson, MO. (April 2014).

Mueller, K. J., "The New "Normal" Health System," 2014 West Virginia Governance Forum, Center for Rural Health Development, Stonewall, WV. (May 2014).

Mueller, K. J., "The Future of Healthcare: Affordable Care Act and Market Reforms," Western Region Flex Conference 2014, Western State Flex Programs, Santa Fe, NM. (June 2014).

Mueller, K. J., "Panelist Comments: Form Follows Finance," Surgical Health Care Quality Forum Iowa, American College of Surgeons, Des Moines, IA. (June 2014).

Mueller, K. J., "Rural Strategies for a Value-Based Future," Critical Access Hospital State Network Council Meeting, Kansas Hospital Association and Kansas Department of Health and Environment, Wichita, KS. (July 2014).

Mueller, K. J., "Change is Coming in Health Markets and Delivery Systems: Effects on Rural," Region C Meeting, State Office of Rural Health, Des Moines, IA. (August 2014).

Mueller, K. J., "Rural Health Policies," Rural Health and Primary Care, Center for Rural Health and Primary Care Advisory Committee of Iowa, Des Moines, IA. (August 2014).

Mueller, K. J., "The Enhanced Role of Primary Care in a Transformed Health Care System," Advancing Rural Primary Care, University of Nebraska Medical Center, Omaha, NE. (September 2014).

Mueller, K. J., "Advancing the Effective Use of Telehealth in Rural Health," Meeting of the National Advisory Committee on Rural Health and Human Services, US Department of Health and Human Services, Office of Rural Health Policy, Sioux Falls, SD. (September 2014).

Mueller, K. J., "Rural Health Strategies for a Value-Based Future," Critical Access Hospital and Rural Health Clinic Conference, WIPFLI CPAs and Consultants, Spokane, WA. (September 2014).

Mueller, K. J., "Encounter-Based Strategies to Population-Based Strategies," Annual Meeting, Iowa Hospital Association, Des Moines, IA. (October 2014).

Mueller, K. J., "The ACA and Beyond: Public Policy and Marketplace Changes Affecting the Future of Rural Health," Annual Rural Health Conference, South Carolina Rural Health Association, Myrtle Beach, SC. (November 2014).

Mueller, K. J., "Navigating the Turbulent Waters of Change in Healthcare," Annual Rural Health Conference, California Rural Health Association, Sacramento, CA. (December 2014).

Shane, D., Ayyagari, P., "Does Prescription Drug Coverage Improve Mental Health? Evidence from Medicare Part D," Academy Health Annual Research Meeting, San Diego, CA. (June 2014).

Shane, D., Ayyagari, P., Wehby, G. L., "Effect of the ACA's Dependent Coverage Mandate on Utilization of Health Care Services," ASHEcon 5th Biennial Conference, Los Angeles, CA. (June 2014).



Shane, D., "Incorporating Cost-Effectiveness Analysis into Research," College of Nursing Research Forum, Iowa City, IA. (November 2014).

Uden-Holman, T. M., Hawley, S., "HSRA Midwestern Public Health Training Center (MPHTC) and Kansas," Spring 2015 Kansas Public Health Grand Rounds Series, University of Kansas Medical Center, Lawrence, KS. (February 2014).

Ward, M. M., "TeamSTEPPS in Iowa CAHs: Importance of Preparedness," CAH QIC Coordinator Meeting, IDPH, Des Moines, IA. (April 2014).

Ward, M. M., Mueller, K. J., Potter, A. J., MacKinney, A. C., "Innovations in Telemedicine: Use of Tele-Emergency to Enhance Coordination of Care," American College of Emergency Physicians Annual Meeting, Chicago, IL. (October 2014).

Wehby, G. L., "Genetic Variation in Prevention and Use of Health Services," Health Economics Workshop, The Center for Health and the Social Sciences, The University of Chicago, Chicago, IL. (January 2014).

Wehby, G. L., "Relationship Between Perceived Facial Attractiveness and 3-Dimensional Facial Shape Components," American Association for Dental Research (AADR) Annual Meeting, Indianapolis, IN. (March 2014).

Wehby, G. L., "Addressing Barriers in Access to Primary Cleft and Craniofacial Care," 71st Annual Meeting of the American Cleft Palate-Craniofacial Association, Indianapolis, IN. (March 2014).

Wehby, G. L., "Microesthetic Dental Analysis in Parents of Children with Oral Clefts," 71st Annual Meeting of the American Cleft Palate-Craniofacial Association, Indianapolis, IN. (March 2014).

Wehby, G. L., "Spectrum of Dental Phenotypes in Orofacial Clefting," 71st Annual Meeting of the American Cleft Palate-Craniofacial Association, Indianapolis, IN. (March 2014).

Wehby, G. L., "Modifiers and Trajectories of Academic Achievement of Children and Adolescents with Oral Clefts Compared to Classmates," 71st Annual Meeting of the American Cleft Palate-Craniofacial Association, Indianapolis, IN. (March 2014).

Wehby, G. L., "Prenatal Diagnosis of Oral Clefts, Early Life Healthcare Experiences, and Maternal Well-being," 71st Annual Meeting of the American Cleft Palate-Craniofacial Association, Indianapolis, IN. (March 2014).

Wehby, G. L., "Publicly-Provided Health Insurance and Ex Ante Moral Hazard: The Case of Medicaid Expansions for Pregnant Women," 5th Annual Midwest Health Economics Conference (MHEC), University of Illinois, Urbana-Champaign, IL. (May 2014).

Wehby, G. L., "Racial Differences in Early Cognitive and Non-Cognitive Neurodevelopment in Brazil," ASHEcon 5th Biennial Conference, Los Angeles, CA. (June 2014).

Wehby, G. L., "Racial Disparities in Birth Outcomes in Multiple South American Countries," ASHEcon 5th Biennial Conference, Los Angeles, CA. (June 2014).

Wehby, G. L., Shane, D., Ayyagari, P., "Do Young Adults Exhibit Moral Hazard Behavior? Evidence from the ACA Dependent Coverage Mandate," ASHEcon 5th Biennial Conference, Los Angeles, CA. (June 2014).

Wright, D. B., "The Impact of the Affordable Care Act on Your Business, Your Employees, and Yourself," Community Educators Series, Community Educators, Marion, IA. (January 2014).

Wright, D. B., "The Impact of the Affordable Care Act on Your Business, Your Employees, and Yourself," Community Educators Series, Community Educators, Des Moines, IA. (January 2014).

Wright, D. B., "Health Centers: A Strategy for Reducing Potentially Preventable Hospital-Based Care Among Dual Eligibles," University of Leicester, Social Science Applied to Healthcare Improvement Research, Leicester, United Kingdom. (July 2014).

Wright, D. B., "Health Centers: A Strategy for Reducing Potentially Preventable Hospital-Based Care Among Dual Eligibles," University of Sheffield, School of Health and Related Research, Sheffield, United Kingdom. (July 2014).

Wright, D. B., "The Impact of the Affordable Care Act on Your Business, Your Employees, and Yourself," Community Educators Series, Community Educators, Waterloo, IA. (July 2014).

Wright, D. B., "What We Know, What We Don't Know, and What We Think We Know About the Affordable Care Act," 36th Annual Iowa Healthcare Executive Symposium, Iowa City, IA. (October 2014).

Zhu, X., "Delineating Cognitive Maps," Sociology Theory Workshop, Dept of Sociology, University of Iowa, Iowa City, IA. (February 2014).

Zhu, X., "Social Network Analysis," AcademyHealth Annual Research Meeting, AcademyHealth, San Diego, CA. (June 2014).

Zhu, X., Baloh, J., Ward, M. M., "Strategies for Preparing Rural Hospitals for TeamSTEPPS Implementation," AcademyHealth Annual Meeting, San Diego, CA. (June 2014).

Zhu, X., Baloh, J., Ward, M. M., Vellinga, K., "Preparation Strategies for TeamSTEPPS Implementation: Lessons Learned from Rural Hospitals," TeamSTEPPS National Conference, AHRQ, Minneapolis, MN. (June 2014).

Zhu, X., "Organizational Research in Public Health," College of Public Health Invited Lecture, College of Public Health, Huazhong University of Science and Technology, Wuhan, China. (July 2014).

# Presentations by Invited Speakers



## **Mary Schroeder, PhD**

Assistant Professor of Health Services Research, College of Pharmacy,  
University of Iowa

***“Heart Attacks and Subsequent Medication Choices: The Effect of Medicare Part D Benefit Phase and Time of Year”***



## **Laurie Walkner, MA, RN**

Director of Education and Training, Institute for Public Health Practice

***“Competency-Based Workforce Development”***



## **Christy Harris Lemark, PhD**

Associate Professor, Department of Health Management and Policy,  
University of Michigan

***“Mixed Methods Evaluation: My Experience Evaluating a Large Physician Incentive Program in Michigan”***



## **Linnea Polgreen, PhD**

Assistant Professor, Pharmacy Practice & Science, College of Pharmacy,  
University of Iowa

***“Blood Pressure Monitoring Using Text Messages”***



## **Mary Vaughan-Sarrazin, PhD**

Associate Professor, Department of Internal Medicine, College of  
Medicine, University of Iowa

***“Racial Differences in Health Care Delivery: Theories and Evidence”***

# Publications by CHPR Associates

Baloh, J., Zhu, X., Vaughn, T. E., MacKinney, A. C., Mueller, K. J., Ullrich, F., Nattinger, M. (2014). Facilitating the formation of accountable care organizations in rural areas. RUPRI Center for Rural Health Policy Analysis, Policy Brief, 2014-7.

Barker, A., McBride, T., Kemper, L., Mueller, K. J. (2014) A Guide to Understanding the Variation in Premiums in Rural Health Insurance Marketplaces. RUPRI Center for Rural Health Policy Analysis, Policy Brief, 2014-5.

Barker, A., Londeree, J., McBride, T., Kemper, L., Mueller, K. (2014). The uninsured: An analysis by age, income, and geography. RUPRI Center for Rural Health Policy Analysis, Policy Brief, 2014-2.

Bentler, S. E., Morgan, R. O., Virnig, B. A., Wolinsky, F. D. (2014) Do claims-based continuity of care measures reflect the patient perspective? *Medical Care Research and Review*, 71, 156-173.

Coburn, A., Lundblad, J., MacKinney, A. C., McBride, T., Mueller, K. J., Watson, S. (2014). The Patient Protection and Affordable Care Act of 2010: Impacts on rural people, places, and providers: A second look. RUPRI Health Panel, 1-30.

Collet, B., Wehby, G. L., Barron, S., Romitti, P., Ansley, T., Speltz, M. (2014) Academic achievement in children with oral clefts versus unaffected siblings. *Journal of Pediatric Psychology*, 39(7), 743-751.

Feng, Z., Jung, H. Y., Wright, D. B., Mor, V. (2014). The Origin and Disposition of Medicare Observation Stays. *Medical Care*, 52(9), 796-800.

Guarnizo-Herreno, C., Wehby, G. L. (2014) Dentist supply and children's dental health in the United States. *American Journal of Public Health*, 104(10), e51-e57.

Howren, M. B., Vander Weg, M. W., Wolinsky, F. D. (2014) Computerized cognitive training interventions to improve health outcomes: Evidence & future directions. *Journal of Comparative Effectiveness Research*, 3, 145-154.

Jaana, M., Vartak, S., Ward, M. M. (2014). Evidence-based health care management: What is the research evidence available for healthcare managers? *Evaluation & the Health Professions*, 37(3), 314-334.

Kemper, L., Barker, A., McBride, T., Mueller, K. J. (2014) 2012 Rural Medicare Advantage Quality Ratings and Bonus Payments, RUPRI Center for Rural Health Policy Analysis, Policy Brief, 2014-1.

Kuthy, R., Golnaz, K., Momany, E., Askelson, N., Jones, M., Chi, D., Wehby, G. L., Damiano, P. (2014) Time until first dental caries for young children first seen in Federally Qualified Health Centers: A retrospective cohort study. *Community Dentistry and Oral Epidemiology*, 42(4), 300-310.

Liang, J., Zhang, P., Zhu, X., Qiao, Y., Zhao, L., He, Q., Zhang, L., Liang, Y. (2014). The Effect of Intergenerational and Intragenerational Support on the Perceived Health of Older Adults: A population-based Analysis in Rural China. *Family Practice*, 31(2), 164-171.

MacKinney, A. C., Mueller, K. J., Vaughn, T. E., Zhu, X. (2014). From health care volume to health care value: Success strategies for rural health care providers. *The Journal of Rural Health*, 30(20), 221-225.

MacKinney, A. C., Mueller, K. J., Zhu, X., Vaughn, T. E. (2014). Medicare accountable care organizations: Program eligibility, beneficiary assignment, and quality measures. RUPRI Center for Rural Health Policy Analysis, Policy Brief, 2014-3.

Miller, S. F., Weinberg, S. M., Nidey, N., Defay, D., Marazita, M. L., Wehby, G. L., Moreno, L. M. (2014) Exploratory genotype-phenotype correlations of facial form and asymmetry in unaffected relatives of children with non-syndromic cleft lip and/or palate. *Journal of Anatomy*, 224(6), 688-709.

Mueller, K. J., Potter, A. J., MacKinney, A. C., Ward, M. M. (2014). Lessons from tele-emergency: Improving care quality and health outcomes by expanding the care team and supporting rural care systems. *Health Affairs*, 33(2), 228-234.

Pedersen, M. S., Wehby, G. L., Pedersen, D. A., Christensen, K. (2014) Long-term effects of oral clefts on health care utilization: A sibling comparison. *European Journal of Health Economics*. [Epub ahead of print]

Potter, A., Mueller, K. J., MacKinney, A. C., Ward, M. M. (2014). The effect of tele-emergency services on recruitment and retention of rural healthcare providers. *Rural and Remote Health*, 14, 2787.

Shane, D. M., Ayyagari, P. (2014) Spillover effects of the Affordable Care Act? Exploring the impact on young adult dental insurance coverage. *Health Services Research*. [Epub ahead of print]

Shane, D. M., Ayyagari, P. (2014) Will health care reform reduce disparities in insurance coverage? Evidence from the dependent coverage mandate. *Medical Care*, 52(6), 528-534.

Shane, D., Damiano, P., Momany, E., Bentler, S. (2014) Post-enrollment challenges for vulnerable consumers and the role for the safety net. Iowa Public Policy Center Policy Brief.



Shane, D., Momany, E., Nguyen-Hoang, P., Damiano, P., Bentler, S. (2014) Cost analyses of the Iowa Medicaid Health Home Program. Iowa Public Policy Center Report.

Smith, B., Nidey, N., Miller, S., Moreno, L., Baum, C., Familton, G., Wehby, G. L., Dunwald, M. (2014) Digital imaging analysis to assess scar phenotype. *Wound Repair and Regeneration*, 22(2), 228-238.

Uden-Holman, T. M., Bedet, J., Walkner, L., Abd-Hamid, N. H. (2014). Adaptive scenarios: A training model for today's public health workforce. *American Journal of Public Health Management and Practice*, 20(Supplement 5), S44-S48.

Ullrich, F., Mueller, K. J. (2014) Update: Independently Owned Pharmacy Closures in Rural America, 2003-2013. RUPRI Center for Rural Health Policy Analysis. Policy Brief, 2014-7.

Vaughn, T. E., Koepke, E., Levey, S., Kroch, E., Hatcher, C., Tompkins, C., Baloh, J. (2014) Governing board, c-Suite, and clinical manager perceptions of quality and safety structures, processes, and priorities in U.S. hospitals. *Journal of Healthcare Management*, 59(2), 111-128.

von Hinke Kessler Scholder, S., Wehby, G. L., Lewis, S., Zuccolo, L. (2014) Alcohol exposure in utero and child academic achievement. *Economic Journal*, 124(576), 634-667.

Ward, M. M., Ullrich, F., Matthews, K., Rushton, G., Tracy, R., Bajorin, D. F., Goldstein, M. A., Kosty, M. P., Bruinooge, S. S., Hanley, A., Lynch, C. F. (2014). Access to chemotherapy services by availability of local and visiting oncologist. *Journal of Oncology Practice*, 10(1), 26-31.

Ward, M. M., Ullrich, F., Matthews, K., Rushton, G., Tracy, R., Goldstein, M. A., Bajorin, D. F., Kosty, M. P., Bruinooge, S. S., Hanley, A., Jacobson, G. M., Lynch, C. F. (2014). Where do Iowa cancer patients get radiation therapy? *Journal of Oncology Practice*, 10(1), 20-25.

Ward, M. M., Ullrich, F., Mueller, K. J. (2014). Extent of telehealth use in rural and urban hospitals. RUPRI Center for Rural Health Policy Analysis. Policy Brief, 2014-4.

Wehby, G. L. (2014) Breastfeeding and child disability: A comparison of siblings from the United States. *Economics and Human Biology*, 15, 13-22.

Wehby, G. L. (2014) Child health insurance coverage and household activity toward child development in four South American countries. *Maternal and Child Health Journal*, 18(4), 939-949.

Wehby, G. L., Collet, B., Barron, S., Romitti, P., Ansley, T., Speltz, M. (2014) Academic achievement of children and adolescents with oral clefts. *Pediatrics*, 133(5), 785-792.

Wehby, G. L., Naderi, H., Ansley, T., Robbins, J., Damiano, P. (2014) Comparing the visual analogue scale and the pediatric quality of life inventory for measuring health-related quality of life in children with oral clefts. *International Journal of Environmental Research and Public Health*, 11, 4280-4291.

Wehby, G. L., Nyarko, K., Lopez-Camelo, J. S. (2014) Fetal health shocks and early inequalities in health capital accumulation. *Health Economics*, 23, 69-92.

Wehby, G. L., Nyarko, K., Murray, J. (2014) Oral cleft recurrence risk and subsequent maternal fertility preferences and behavior in Brazil. *Birth Defects Research*, 100, 48-56.

Wehby, G. L., Prater, K., Ryckmann, K., Kummet, C., Murray, J. C. (2014) Candidate gene study for smoking, alcohol use, and body weight in a sample of pregnant women. *The Journal of Maternal-Fetal & Neonatal Medicine*. [Epub ahead of print]

Wehby, G.L., Moreno, L. M. (2014) Oral clefts and wellbeing: A life-long perspective and an agenda for comparative effectiveness research. *Journal of Comparative Effectiveness Research*, 31, 23-28.

Weigel, P., Hockenberry, J., Bentler, S., Wolinsky, F. D. (2014) The comparative effect of episodes of chiropractic and medical treatments on the health of older adults. *Journal of Manipulative and Physiological Therapeutics*, 37, 143-154.

Weigel P., Hockenberry, J., Wolinsky, F. D. (2014) Chiropractic use in the Medicare population: Prevalence, patterns, and impact on one-year changes in health and satisfaction with care. *Journal of Manipulative and Physiological Therapeutics*, 37, 542-551.

Weigel, P., MacKinney, A. C., Ullrich, F., Mueller, K. J. (2014). The effect of Medicare payment policy changes on rural primary care practice revenue. *RUPRI Policy Brief*, 2014-4.

Wolinsky, F. D., Ayyagari, P., Malmstrom, T. K., Miller, J. P., Andresen, E. M., Schootman, M., Miller, D. K. (2014) Lower extremity function trajectories in the African American health cohort. *Journal of Gerontology: Medical Sciences*, 69A, 1004-1010.

Wolinsky, F. D., Jones, M. P., Ullrich, F., Lou, Y., Wehby, G. L. (2014) The concordance of survey reports and Medicare claims in a nationally representative longitudinal cohort of older adults. *Medical Care*, 52, 462-468.

Woodhouse, C., Lopez-Camelo, J., Wehby, G. L. (2014) The effect of prenatal care on birth weight in South America: A multi-country study. *PLOS One*, 9(3), e91292.

Wright, D. B. (2014). *Voices of the Vulnerable: Community Health Centers and the Promise and Peril of Consumer Governance*. *Public Management Review*, 17(1), 57-71.

Wright, D. B., Jung, H.Y., Feng, Z., Mor, V. (2014). Hospital, Patient, and Local Health System Characteristics Associated with the Prevalence and Duration of Observation Services. *Health Services Research*, 49(4), 1088-1107.

Wright, D. B., Martin, G. P. (2014). Mission, Margin, and the Role of Consumer Governance in Decision-Making at Community Health Centers. *Journal of Health Care for the Poor and Underserved*, 25(2), 930-947.

Wright, D. B., Nice, A. J. (2014). Health Centers in States with Public Health Agency Support Do Not Have Better Chronic Disease Outcomes. *Journal of Primary Care & Community Health*, 5(3), 166-172.

Zhu, X., Ullrich, F., Mueller, K. J., MacKinney, A. C., Vaughn, T. E. (2014). Trends in hospital network participation and system affiliation, 2006-2012. RUPRI Center for Rural Health Policy Analysis. Policy Brief, 2014-6.

## Forthcoming Publications by CHPR Associates

Ayyagari, P., Shane, D. M. Does prescription drug coverage improve mental health? Evidence from Medicare Part D. *Journal of Health Economics*.

Bentler, S. E., Morgan, R. A., Virnig, B. A., Wolinsky, F. Do claims-based continuity of care measures reflect the patient perspective? *Medical Care Research and Review*.

Bentler, S. E., Morgan, R. O., Virnig, B. A., Wolinsky, F. D. The association of longitudinal and interpersonal continuity of care with emergency department use, hospitalization, and mortality among Medicare beneficiaries. *PLoS One*.

Leslie, E. J., Taub, M. A., Liu, H., Steinberg, K. M., Koboldt, D. C., Zhang, Q., Carlson, J. C., Hetmanski, J. B., Wang, H., Larson, D. E., Fulton, R. S., Kousa, Y. A., Fakhouri, W. D., Naji, A., Ruczinski, I., Begum, F., Parker, M. M., Busch, T., Standley, J., Rigdon, J., Hecht, J. T., Scott, A. F., Wehby, G. L., et al. Identification of functional variants for cleft lip with or without cleft palate in or near PAX7, FGFR2, and NOG by targeted sequencing of GWAS loci. *American Journal of Human Genetics*.

MacKinney, A. C., Mueller, K. J., Zhu, X., Vaughn, T. E. Medicare Accountable Care Organizations: Program Eligibility, Beneficiary Assignment, and Quality Measures. RUPRI Center for Rural Health Policy Analysis. Rural Policy Brief.

Queiros, F., Wehby, G. L., Halpern, C. T. Early life disabilities and human capital accumulation in young adulthood. *Public Health Reports*.

Stewart, G., Manges, K., Ward, M. M. Empowering sustained patient safety improvement: The benefits of combining top-down and bottom-up approaches to change management. *Journal of Nursing Administration*.

Ward, M. M., Ullrich, F., Potter, A. J., MacKinney, A. C., Kappel, S., Mueller, K. J. Factors affecting staff perceptions of tele-ICU service in rural hospitals. *Telemedicine and e-Health*.

Ward, M. M., Zhu, X., Lampman, M., Stewart, G. TeamSTEPPS training in community hospitals: Adherence to recommended approaches. *International Journal of Health Care Quality Assurance*.

Wehby, G., Gili, J., Pawluk, M., Castilla, E. Lopez-Camelo, J. Disparities in birth weight and gestational age by ethnic ancestry in South American countries. *International Journal of Public Health*.

Wolinsky, F. D., Vander Weg, M. W., Howren, M. B., Jones, M. P., Dotson, M. The effect of cognitive speed of processing training on the development of additional IADL difficulties and the reduction of depressive symptoms: Results from the IHAMS randomized controlled trial. *Journal of Aging and Health*.

Wright, D. B., Damiano, P. C., Bentler, S. E. Implementation of the Affordable Care Act and Rural Health Clinic Capacity in Iowa. *Journal of Primary Care & Community Health*.

Wright, D. B., Nice, A. J. Variation in Local Health Department Primary Care Services as a Function of Health Center Availability. *Journal of Public Health Management and Practice*.

Wright, D. B., Ugwi, P., Nice, A. J. Organizational Scope of Practice: Assessing the Primary Care and Public Health Activities of Health Centers and Health Departments in Iowa. *Population Health Management*.

# Publications by PhD Students

Baloh, J., Zhu, X., Vaughn, T. E., MacKinney, A. C., Mueller, K. J., Ullrich, F., Nattinger, M. (2014). Facilitating the Formation of Accountable Care Organizations in Rural Areas. RUPRI Center for Rural Health Policy Analysis. Policy Brief, 2014-7.

Mueller, K. J., Potter, A. J., MacKinney, A. C., Ward, M. M. (2014). Lessons from tele-emergency: Improving care quality and health outcomes by expanding the care team and supporting rural care systems. *Health Affairs*, 33(2), 228-234.

Potter, A., Mueller, K. J., MacKinney, A. C., Ward, M. M. (2014). The effect of tele-emergency services on recruitment and retention of rural healthcare providers. *Rural and Remote Health*, 14, 2787. (Online) 2014. Available: <http://www.rrh.org.au>

Vaughn, T. E., Koepke, E., Levey, S., Kroch, E., Hatcher, C., Tompkins, C., Baloh, J. (2014) Governing board, c-Suite, and clinical manager perceptions of quality and safety structures, processes, and priorities in U.S. hospitals. *Journal of Healthcare Management*, 59(2), 111-128.

Ward, M. M., Zhu, X., Lampman, M., Stewart, G. (2014). TeamSTEPPS training in community hospitals: Adherence to recommended approaches. *International Journal of Health Care Quality Assurance*. 28(3), 234-244.

## Wakefield Award

The Bonnie J. and Douglas S. Wakefield Award is presented to recognize HMP Doctoral students who best exemplify the mission of the HMP Ph.D. Program in terms of excellence or promise of excellence in health services and policy research.

The winners for 2014 are Andrew Potter and Mehwish Qasim. These two students were especially commended for their first-author publications referenced below.

### Congratulations, Andy and Mehwish!



Potter, A., Mueller, K. J., MacKinney, A. C., Ward, M. M. (2014). The effect of tele-emergency services on recruitment and retention of rural healthcare providers. *Rural and Remote Health*, 14, 2787.

Qasim, M. and Andrews, R.M. (2013) Despite overall improvement in surgical outcomes since 2000, income-related disparities persist. *Health Affairs*. 32(10):1773-1780.









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