

Karen E. Reilly, Sc.D.
Associate Scientist, Center for Health Systems Research and Analysis

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Key Qualifications

Senior health policy researcher with 20 years of project director and evaluation experience in Medicare, long-term care, skilled nursing facility quality and case-mix payment, health cost-containment initiatives, and federal, state, and local health policy analyses.

Education

Sc.D., Johns Hopkins University, Health Policy and Management, 1987
B.A., University of Maryland, Medical Sociology, 1981
A.A. Wisconsin District One Technical Institute, MLT, 1976

Professional Experience

- 2001-present **Center for Health Systems Research and Analysis, Associate Scientist.**
Conduct research on the relationship of long term care staffing to cost and quality of care. Provide analytic support for projects regarding state Medicaid reimbursement systems and Medicare SNF prospective payment systems. Participate in the design, planning and development of new projects and research proposals.
- 2001-present **Long Term Care Institute, Analyst.**
Conduct onsite quality assessments, design and execute quality analyses and prepares quality assessment reports for HHS, OIG and the nursing home chains.
- 1998-2001 **Abt Associates, Inc. Associate Project Director (2000-2001).**
Nursing Home Performance Report Design and Development.
Participate in the development and implementation of a web based nursing home quality performance measurement system for the state of Maryland. Review evaluative tools and reporting formats for measuring nursing home quality performance. Develop a conceptual reporting design that addresses quality indicators, quality measurement and related statistical methods; availability and limitations of data sources; and plans for reporting and disseminating performance measurement.

Design and Implement a Nursing Home Reimbursement System for the state of New Jersey.

Design and implement a plan to transition nursing facilities to an updated MDS based casemix payment system. Including a MDS multi-level quality review process. The review process will include a description of DHSS' current nursing home MDS data validation process, development of a scale-able review process, definition of methods to test the review process, and evaluation of the multi-level review process. Also develop training materials to assist the state review nurses in implementing the proposed MDS multi-level review process and provide training to state review nurses. Provide technical assistance to DHSS during implementation of the multi-level review process and to deliver a report addressing casemix reimbursement methodology including a discussion of the RUG-III Grouper, what is available for states' and potential casemix refinements.

Performance Based Contracting on Long Term Care Nursing Facility Services for the state of Minnesota. Participate in the development of a performance-based contracting system for long term care (LTC) facilities and the development of a plan and series of recommendations

for transitioning nursing facilities to a new, MDS-based casemix payment system. Provide technical assistance regarding transition operations (e.g., information systems, payment rates, assessment schedules, data integrity audits).

The National Assessment of the 1999 REACH Campaign. Assess the HCFA Regional Offices' (ROs) outreach activities in the 1999 and 2000 Regional Education About Choices in Health (REACH) campaign conducted in the fall of 1999 and 2000. The assessment included outcome analyses of the best practices in informing beneficiaries, caregivers, partners and providers about the fundamental features of the Medicare program and the newer, expanded options with Medicare+Choice.

Development and Testing of a Minimum Data Set Accuracy Verification Protocol. Provided the Health Care Financing Administration (HCFA) with cost effective methods for verifying and ultimately improving the accuracy of nursing home Minimum Data Set (MDS) data. Evaluation efforts included: comparing and contrasting both on-site and off-site methods of targeting aberrant providers; automated methods of identifying data aberrancies including statistical clustering techniques against components of the large MDS data repository and simulated neural networks; and an inter-rater reliability study of more than 300 nursing homes.

The History of the Nursing Home Industry and Its Residents. Participated in the preparation of a white paper regarding the history of the nursing home industry and its residents. The report focused on changes over time, quality of care, and changing needs of the nursing home resident.

Study on the Effectiveness of the Current Long Term Care Survey and Certification System. Evaluated the impact and effectiveness of recent changes to the Medicare survey, certification and enforcement processes. Evaluation efforts also include the derivation of a valid nursing home staffing measure to be used in analyzing the association between staffing and resident outcomes and a qualitative analysis of current nursing home staffing across the U.S.

1994-1998

Allied Technology Group, Inc. Director

Responsibilities included day to day project direction as well as staff management and Health Program and Policy Analysis marketing direction, growth, and development.

Project Director. Responsible for the *Staff Time Measurement Study for National SNF System: Resource Utilization Group: Validation for Sub-Acute and Very High Rehabilitation*. The project updated the Nursing Home Case-Mix and Quality Demonstration payment system and is the prototype for HCFA's national skilled nursing facility prospective case-mix reimbursement payment system scheduled for implementation in 1998. Responsibilities included general contract supervision and oversight; staffing; four University subcontracts to gather SNF staff time in 55 facilities across four States; the design and execution of data collection systems; and research analyses related to Medicare nursing home prospective payment.

Project Director, Assistant Project Director. Responsible for the supervision and oversight of a multistage, long-term care payment demonstration project. The multi-year implementation demonstration phase, funded by the Health Care Financing Administration, was the precursor of the national Medicare Prospective Payment System implemented in 1998. Areas of responsibility included: design and execution of research

analyses related to Medicare and Medicaid nursing home prospective payment that incorporates resident and facility characteristics, staff time, quality assessment, and resident longitudinal profiles; constructing analytic data files, incorporating national claims databases into Demonstration data files and analyses; and directing *Nursing Home Case-Mix and Quality (NHCMQ) Demonstration* contractual tasks and timelines, including communications with major university subcontractors and ten staff.

Project Director, *Malpractice Insurance Premium Rate Information*, a task to update the physician malpractice insurance component of the Geographic Practice Cost Index (GPCI) of the Medicare Economic Index (MEI). HCFA requested expanding the task and budget to include a first time collection and analysis of hospital malpractice insurance premium data. These data would be added to future calculations of the GPCI component of the MEI.

Project Manager of cooperative investigation with the Urban Institute regarding the construction and analysis of a longitudinal database of Medicare skilled nursing facility residents. The database was a first ever look at incorporating the MDS+ assessment data associated with the NHCMQ Demonstration with HCFA's national Medicare Provider Analysis and Review (MEDPAR) claims data.

1993-1994 **The Circle, Inc., Senior Policy Analyst.** Provided supervision and oversight regarding analyses and reports related to the design phase of a large, multistage, long-term care payment demonstration project for the Health Care Financing Administration (HCFA). Prepared specific project reports for the Multistage Nursing Home Case-Mix and Quality (NHCMQ) Demonstration. Designed information reporting systems whereby Demonstration actors and interested parties have access to Demonstration status and progress. Incorporated related national claims data files into project databases generated analyses/reports. Converted files to analytic data bases associated with research analyses.

1990-1993 **Southwick Associates, Consultant.** Conducted research on the economic valuation of fish kills including telephone survey design for the American Fisheries Society. Other projects include questionnaire design and research analysis on the economic impact for the fur industry for the Fur Information Council of America.

1991 **The Circle, Inc., Consultant.** Prepared a report that reviewed and evaluated all previous studies regarding health and medical care provided to the U.S. Soldiers' and Airmen's Home since 1980. Report was part of U.S. Soldiers' and Airmen's Home Health Center Services Manpower Study Project.

1985-1989 **Health Research and Program Evaluation, United Mine Workers of America Health and Retirement Funds. Program Manager.** Managed a staff engaged in a broad range of health policy evaluation projects. Specific reports include research design and analysis of various Funds' cost containment initiatives, preferred provider program, physician payment review, relative values based reimbursement, beneficiary survey, and drug reimbursement formulas. Ability to work with broad range of committee members to identify issues and execute meaningful analyses.

Project Manager. Managed a staff to analyze cost containment issues and produce reports. Responsibilities included research design, identification and application of data bases (e.g., internal claims data, administrative reports and comparative external data sources), conversion of large administrative claims data bases to analytic data files,

computer program design (mainframe and microcomputers), data analysis, and report writing.

- 1984 **Maryland State Department of Health and Mental Hygiene, Medical Compliance Administration, Consultant.** Investigated the effects of Maryland Medicaid cost containment activities on hospital cost and utilization. Constructed analytic computer data files and programmed and evaluated statistical computer analyses. Researched, analyzed data, and produced *An Analysis of Maryland Medicaid Cost Containment Policies of 1981*.
- 1982-1983 **Research Assistant.** Investigated primary care services and delivery in Maryland. Assisted in production of *Primary Care in Maryland--A Report to the Maryland Legislature*. Researched, analyzed and produced *Effects of Maryland Medicaid's Cost Containment Activities--Some Preliminary Results*.
- Intern Associate.** Prepared report on community health center's role in the Maryland primary health care system.
- 1980-1981 **University of Maryland, Sociology Department, Research Assistant.** Identified literature regarding hospital organization. Assisted in developing coding scheme for literature, HEW contract 233-80-3003. Researched literature and presented summary report on the director for nurses' role in long-term care. Served as teaching assistant, performing related tasks.
- 1978-1980 **Bio-Science Laboratories, Senior Laboratory Technician.** Acting department head for microbiology and immunology.
- 1976-1977 **St. Mary's Hospital Medical Center, Microbiologist.** Responsible for microbiology department in teaching hospital, evening shifts.

Papers, Publications, and Selected Presentations

Centers for Medicare and Medicaid Services' Nursing Home Case-Mix and Quality Demonstration—A Descriptive Overview. Journal of Aging and Social Policy Reilly, K., Mueller, C., and Zimmerman, D. forthcoming Volume 19, 2007.

A Nurse-Staffing Taxonomy for Decision Making in Long-Term Care Nursing Homes. Journal of Nursing Care Quality. Reilly, K., Mueller, C., and Zimmerman, D. forthcoming 2006.

Reporting Quality of Nursing Home Care to Consumers: The Maryland Experience. (2003). Mattke, S., Reilly, K., Martinez-Vidal, E., McLean, B., and Gifford, D. International Journal for Quality in Health Care 15(2):169-177.

Overview of Skilled Nursing Home Performance Reporting Systems. Presentation at the Rhode Island Department of Health's Skilled Nursing Facility Conference, September 2000, Warwick, RI.

The HCFA Staff Time Measurement Studies: Implications for Minimum and Best Practice Staffing. Presentation at the National Case Mix 2000 Conference, May 2000, Madison, WI.

Health Care System, Karen E. Reilly, Sc.D., in *Primary Care for the Older Adult: A Multidisciplinary*

Approach. M. Burke and J. Laramie, ed., Mosby, March 2000.

Epidemiology of Aging, Karen E. Reilly, Sc.D. and Tae H. Kim, MPH, in *Primary Care for the Older Adult: A Multidisciplinary Approach.* M. Burke and J. Laramie, ed., Mosby, March 2000.

HCFA's Nursing Home Case-Mix and Quality Demonstration, Karen E. Reilly, in *Prospective Payment System: A Primer.* J Baker, ed., Aspen, 1999

Implementation of the Multistate Nursing Home Case-Mix and Quality Demonstration: Final Report. USDHSS, HCFA Contract #500-94-0010, Reilly, BurkeB, Kuhn, BurkeM, and Carlin. Allied Technology Group, Inc., Rockville, MD, December 1999.

Staff Time Measurement Study for National SNF System: Final Report. USDHSS, HCFA Contract #500-96-0027, Reilly, Kim, Burke, Kuhn, and Carlin. Allied Technology Group, Inc., Rockville, MD, 1998.

Prospective Case-Mix Payment and Nursing Time. Paper presented at the John A. Hartford Institute for Geriatric Nursing, Staffing, Case Mix, and Quality in Nursing homes, April 1998, Washington, DC.

The National Medicare Prospective Payment System. Presentation at the Gerontological Nursing Conference, May 1998, Philadelphia, PA.

Staff Time Measurement Updates and the National Medicare Prospective Payment System. Briefing to the American Hospital Association's Long-Term Care and Rehabilitation Governing Council, March 1998, San Antonio, TX.

Skilled Nursing Facility Staff Time Measurement Studies and the National Medicare Prospective Payment System. Briefing to the California Health Care Association, November 1997, Marina Delray, CA.

SNF Staff Time Measurement: A Preliminary Look at Special Populations. Presentation at the National Case-Mix Conference, September 1997, Cleveland, OH. Coauthors: E Cornelius and M Gavazzi.

The Older Adult Population, Karen E. Reilly, Sc.D., in *Gerontologic Nursing: Care of the Elderly, 2nd Edition.* M Burke and M Walsh, eds., Mosby, 1997.

Preliminary Results of HCFA's Multistage Nursing Home Case-Mix and Quality Demonstration 1994 Staff Time Measurement Study. Presentation at the National Case-Mix Conference, February 1996, San Antonio, TX. Coauthors: D Schneider, B Fries, and M Gavazzi.

Longitudinal Tracking of Medicare Skilled Nursing Facility Residents' Hospital Admissions. Presentation at the American Public Health Association annual meeting, October 31, 1994, Washington, DC. Coauthors: R Burke, K Liu, Marsteller, and J Sharlin.

Expanding Prospective Payment for Long Term Care: The Multistage Nursing Home Case Mix and Quality Demonstration. Prepared under Contract #500-89-0046 with the U.S. Department of Health and Human Services, Health Care Financing Administration, Office of Research and Demonstration, December 1993 (with Burke, Fries, Schneider, Zimmerman, Cornelius, Droge, Shiverick, and Aillo).

American Fisheries Society. *Sourcebook for Investigation and Valuation of Fish Kills.* American Fisheries Society Special Publication 24, Bethesda, MD, 1993 (with Southwick Associates staff).

The Economic Impact of the Fur Industry--Working Papers. Prepared for the Fur Information Council of America, August 1992 (with Southwick Associates staff).

A Report of Review and Analysis of Health and Medical Care Studies Related to the U.S. Soldiers' and Airmen's Home Since 1980. Prepared as part of U.S. Soldiers' and Airmen's Home Health Center Services Manpower Study Project, August 1991 (with R Burke).

Hospital Market Profiles: Description, Data, Availability, Current Use and Enhancements. Prepared for UMWA/HRF, August 1989 (with Funds' staff).

Methodology for Deriving Industry-Wide Fee Limits. Prepared for UMWA/HRF, June 1989 (with Funds' staff).

Funds' Relative Value Based Reimbursement: Some Preliminary Findings. Prepared for UMWA/HRF, February 1989 (with Funds' staff).

Impact Analysis--Medicare Catastrophic Coverage Act of 1988. Prepared for UMWA/HRF, October 1988 (with Funds' staff).

Payment Allowances Cost Management Program Report. Prepared for UMWA/HRF, August 1987.

Changes in Hospital Admissions and Length of Stay Corresponding with 1981 Maryland Medicaid Cost Containment Policies. Dissertation to fulfill Doctor of Science requirements, Johns Hopkins University, 1987.

An Analysis of Maryland Medicaid Cost Containment Policies of 1981. Prepared for the Maryland State Department of Health and Mental Hygiene, Medical Compliance Administration, March 1984.

Memberships

American Public Health Association
Academy for Health (formerly Academy for Health Services Research and Health Policy)
Gerontological Society of America