



Statement by Bonnie Zabel

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Nursing Home Transparency and Improvement

November 15, 2007

American Association of Homes and Services for the Aging

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Introduction

Chairman Kohl, Ranking Member Smith and members of the Committee, I am pleased to have the opportunity to testify today on behalf of Marquardt Memorial Manor (Marquardt Manor) and the American Association of Homes and Services for the Aging (AAHSA), of which we are a member. Marquardt Manor is also a member of the Wisconsin Association of Homes and Services for the Aging (WAHSA), where I serve on the Board of Directors.

The members of the American Association of Homes and Services for the Aging (www.aahsa.org) serve as many as two million people every day through mission-driven, not-for-profit organizations dedicated to providing the services people need, when they need them, in the place they call home. Our 5,700 members offer the continuum of aging services: adult day services, home health, community services, senior housing, assisted living residences, continuing care retirement communities and nursing homes. AAHSA's commitment is to create the future of aging services through quality people can trust.

Marquardt Manor is a certified Medicare and Medicaid skilled nursing facility. Founded in 1969, Marquardt Manor is a part of Marquardt Village, a retirement community sponsored by the Western District of the Moravian Church. Our mission is to care for the elderly and the handicapped in a Christian environment, although we are open to all faiths. The Marquardt retirement complex began as the nursing home but now consists of all levels of services and housing – low-income and market rate senior housing; assisted living; skilled nursing; supportive home care services; home health; therapy; hospice; and a senior center.

I joined Marquardt Manor 20 years ago as a nurse and was appointed administrator in 1994. Our residents receive a wide range of medical and social services, but we are more than medical services, we are home for our residents. Quality of care and quality of life merge in three specific ways:

- We care about our resident's transition to Marquardt and quality of care. We are fully prepared before we accept a resident – we tell hospital discharge planners that we require a full and complete medical history so that we are prepared with the correct medication, correct immediate care plan, and correct immediate treatment when a new resident arrives. Care happens immediately – a personalized care plan needs to be in place upon admission.
- We care about our residents' comfort. Although we are almost 70% Medicaid funded, each of our rooms is private and carpeted, with its own bath. Residents are encouraged and able to bring their personal furnishings so that they can say, especially if they will be with

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us for a long time, “I am home”. While the overhead for private rooms is higher than shared rooms, the benefits far outweigh the costs: residents are more content and relate better to each other; families and kids visit more often and have much better visits. On the care side, infections have been reduced; nurses have more time to spend with each resident; rooms stay much cleaner; and everyone is much happier. Creating a good atmosphere is not a frivolous activity, it is central to a good and caring environment.

- We care about our workforce. We have almost no turnover and we are an employer of choice in our community. Our staffing levels are higher than average (3.9 hours per resident) as is our pay (starting salary for CNAs is \$13.95 per hour plus benefits, compared with \$9.00 in Milwaukee and Madison), and we have excellent in-house education and training programs. We created an educational program with our local high school which has funneled interested and well-trained young people into our field as CNAs. They get their on-the-job training at Marquardt Manor as they are completing their high school education. Our turnover really is related to graduates who decide to move on, often to get advanced degrees – we are proud that we have educated generations of young people to join our field and provide quality care throughout Wisconsin and the country.

In addition we have and enforce fair and reasonable work rules – good work is recognized and poor quality not tolerated. We recognize the value of our workforce through a program we developed called “Gratitude, Attitude”, which is now being promoted state-wide by WAHSA, where staff and residents share appreciations for each other. Staff feel that their work is recognized, and residents can express what really matters to them in their every day life (taking a walk, having their hand held, morning bath – the “little” things that aren’t medical but are essential and personal) which in turn helps us provide better service.

Finally, we care about our employees as people – we recognize that balancing work and family is not easy and have created informal and formal programs to help our staff. We provide in-service programs for staff in such areas as coping skills and balancing work and family. Personally, I have an open door – staff knows that they can come to me with concerns and that we will work together for solutions.

In my testimony today, I will focus on our field’s efforts to improve nursing home transparency and quality, and address certain improvements to the overall system that could improve the consumer’s ability to make informed decisions regarding the decision to enter a nursing home.

Transparency

It is difficult for consumers to obtain adequate and useful information on nursing homes so that they can make an informed decision for themselves or a loved one. The information that is available is not written for the lay person and does not contain critical information to assess the quality of life and care provided by the home. This lack of good information is particularly disturbing because consumers seldom have the time or capacity to research homes.

The primary source of information is Nursing Home Compare, the website established and maintained by CMS. Nursing Home Compare contains the results of the latest surveys for each Medicare and Medicaid-certified nursing home, quality measures based on the information collected for the Minimum Data Set (MDS) Repository, and some general information regarding each nursing home. Although an effort has been made to explain each reported measure and deficiency citation, the site never actually explains the process and the meaning of the results, how surveys are conducted, what they mean and don't mean. How should the consumer assess the meaning of a deficiency that ranks as a "2" and affects a "few" residents? Consumers cannot even determine if cited deficiencies relate to many incidents or one incident. Nor is there any lay explanation of the facts underlying the deficiency so that a consumer can understand the meaning of the deficiency. What is the actual impact on "quality"? How should the consumer use this data? Other issues that have been raised about the information provided on Nursing Home Compare relate to the reliability of the data¹, as well as understanding that compliance with regulations is not the same thing as quality.

None of these questions is answered, even though understanding how to interpret survey data and integrate this data into one's analysis of any particular nursing home seems like fairly basic information.

In Wisconsin, the state has developed its own website, (<http://dhfs.wisconsin.gov/bqaconsumer/NursingHomes/CIRindex.htm>), using the same data, but presented in a more consumer-friendly manner. The reports are re-titled "Consumer Information Reports" (CIR) and contain explanations of the information reported in plain English. In addition, the CIR contains useful information on staffing retention and turnover rates. Staffing is one of the key indicators for quality. A home with a low turnover and high retention of staff is more likely to have higher quality and greater satisfaction of staff and residents, and so this information can be very useful to consumers.

The survey is only one tool for evaluating a nursing home, indeed it may be the least useful in the end because it only reports on deficiencies and does not provide information on all the other elements of care and services that are critical for evaluating quality of care. Unfortunately, there really is no other data source for identifying which nursing homes have high quality.² As a result, everyone from CMS to consumer groups to nursing homes ourselves urge prospective residents or their decision makers to visit the nursing homes they are considering if at all possible. . The time to visit prospective homes and the tools to analyze the information obtained from NH Compare and their visits, are critical to the ability of consumers to make thoughtful and intelligent decisions.

There are several variations of tools for consumers. CMS has developed a "Guide to Choosing a Nursing Home" (which unfortunately is buried deep in its website but which can be found on the home page of the Wisconsin site). AAHSA has also developed a publication for consumers,

¹ See, e.g., Lee, Gajewski & Thompson, "Reliability of the Nursing Home Survey Process: A Simultaneous Survey Approach," 46 THE GERONTOLOGIST 772-780 (2006) (copy attached to testimony).

² There is extensive literature on quality but it is not easily accessible to consumers. "Aging Services: The Not-For-Profit Difference", an AAHSA publication, cites many of these independent studies as identifying higher quality provided by NFPs.

“How to Choose a Nursing Home”, http://www.aahsa.org/consumer_info/how_to_choose/tour_nursing_home.asp.³ Each of these guides tries to provide the consumer with questions that will hopefully elicit sufficient information to identify the quality of the care and services provided.

In addition, AAHSA developed and recommends that our members distribute two checklists to prospective residents and their families, The Consumers Guide to Quality Aging Services (http://www.aahsa.org/qualityfirst/assessment/documents/consumers_guide.pdf) and a checklist called “First Impressions” which is designed to provide feedback to the provider but also serves as a good one-page checklist for consumers themselves. (http://www.aahsa.org/qualityfirst/resources/public_trust/documents/FirstImpression.pdf)

The Consumers Guide to Quality Aging Services is considerably different than the standard guides because it tracks the elements of AAHSA’s Quality First initiative.⁴ The AAHSA Guide recommends that the prospective consumer ask the nursing home questions such as: “Does your organization participate in a quality improvement or accreditation program (and if so, explain which one and why)?”; “Who serves on your Board of Directors?”; “How does your organization identify and adopt new care and services practices?”; “What kinds of community programs or services do you bring into the facility, and how do you involve residents in programs, activities and events in the neighboring community?”; “Is your staff encouraged to give feedback? For example, do you conduct staff satisfaction surveys and if so, how do you use the results?”, and “What is the average length of employment for your staff members and what reasons do employees cite for leaving your organization?”

AAHSA linked several questions in the Consumers Guide to “Governance and Accountability”, one of the elements of AAHSA Quality First, because good governance and corporate accountability are critical to quality. Not-for-profits are not only obligated to report to the public on their finances, they are also legally and morally obligated to reinvest their earnings in their community, whether by providing more and better services, higher pay for staff, improving the physical environment or serving more people, to name just a few possibilities.⁵

Consumers and Choice: The Challenge of Transition

One of the most pressing problems for consumers is having the time to use the various tools available. Nursing home admissions through Medicare by definition have to be preceded by a 3-day hospital stay and it has been our experience that most nursing home admissions in fact come directly from hospitals. Thus, the gatekeeper tends to be the hospital discharge planner. A number of commentators have examined the transition process from hospital to nursing home and

³ Other organizations that have developed consumer guides include the American Health Care Association (AHCA) and NCCNHR, the nursing home consumer advocacy organization.

⁴ Quality First is the industry-wide voluntary quality improvement initiative initiated in 2001 by AAHSA, AHCA and the Alliance (which represents publicly-traded nursing home companies). The associations implement Quality First independently.

⁵ Not-for-profits are obligated to report their finances to the IRS on the I-990 form, make the form publicly available, and meet specific governance and charitable requirements to maintain their tax exempt status. It should be noted that publicly traded companies are also required to report their finances and major business activities; it is the financial obligations that are significantly different.

identified a considerable number of concerns, including failure to provide x-rays and other studies, failure to include end of life documents (do not resuscitate orders), dietary information and the like when patients are transferred to nursing homes.⁶

The ability of the consumer/caregiver/patient to make careful choices is likewise compromised. As hospital stays have shortened, the time between admission and discharge planning has likewise shortened, thus reducing the ability of the caregiver to make careful choices. The National Alliance for Caregiving has published a pamphlet for caregivers explaining the process and providing advice on how to manage and challenge decisions,⁷ but it is unlikely that many consumers have access to this document. Family and patient may feel they have no choice but to take the recommendation/order of the hospital – and no meaningful time to determine alternatives much less search for information on quality of care and life and then seek out the best facilities.

These transitions, we firmly believe, need to be addressed if we are serious about wanting consumers to exercise choice based on meaningful information and if we want the people we care for to move through the system smoothly. AAHSA has joined with 26 other organizations to form The National Transitions of Care Coalition (NTOCC), which brings together thought leaders, health care providers and consumers from various care settings to address improving the quality of care coordination and communication when individuals are transferred from one level of care to another.

Quality Initiatives from the Field

AAHSA and many of our members have developed and implemented initiatives to improve both the quality of care and the quality of life of people living in nursing homes. AAHSA's own "five big ideas for the future of aging services" include cultural transformation: the creation of a healthy nursing home workplace based on respect for caregivers, team building and management, continuous quality improvement, and resident centered care.

A few examples of quality initiatives in which our members have taken a leading role⁸:

Pioneer Network

Ten years ago, nursing home leaders who wanted to change the dynamics of our field to reflect life and growth began meeting together to find common areas for research and reform. The Pioneer Network was established in 2000 as the umbrella organization for the culture change movement. Its members work with long-term care professional organizations, facilities and their staffs in implementing fundamental changes in the operations of nursing facilities. Several

⁶ Lee, et al., "If at First You Don't Succeed: Efforts to Improve Collaboration Between Nursing Homes and a Health System", Topics in Advanced Nursing eJournal, www.medscape.com (posted 09/01/94).

⁷ Hunt, *A Family Caregiver's Guide to Hospital Discharge Planning* is available at www.strengthforcaring.com.

⁸ Marquardt Memorial adapted many of the elements of the various culture transformation models to meet our community's needs. It is not necessary to adopt an entire program; what is necessary is the will to create a healthy nursing home workplace and to maintain that healthy workplace over the years.

AAHSA conferences have included educational sessions led by Pioneer Network members. Nursing homes that have implemented Pioneer principles are reporting improved staff retention and resident outcomes. Nine states have formed culture change coalitions. The Network has now expanded to include providers of home- and community-based services.

Wellspring

Wellspring, an initiative begun by a group of AAHSA members in Wisconsin in 1994, integrates federal quality indicators, best practices and a new management paradigm to dramatically improve resident outcomes and cost efficiency. Fundamental to the Wellspring program is the concept that the definition of quality care is created by top management, but that the best decisions about how the care is delivered to each resident are made by the front-line staff who knows the residents best. This empowerment is achieved through extensive line staff education in the form of “care resource teams”, shared decision-making and enhancing critical thinking skills of all staff. The program is lead by a geriatric nurse consultant who utilizes other clinical experts for teaching best practices.

Group process is central to Wellspring. The shift from traditional autocratic management structure to staff empowerment where frontline staff has equal responsibility for resident outcomes is what has made Wellspring unique. Key components are establishing permanent staff assignments to groups of residents and allowing staff to do their own scheduling.

Because of the initial success Wellspring achieved (98% resident/family satisfaction, a cut in the CNA turnover rate from 105% to less than 30%, a waiting list of CNA applicants, high staff retention, and good survey results) the program now is being replicated in nursing homes in several states.

Eden Alternative

Several years ago, Dr. Bill Thomas began a program to combat the loneliness, helplessness and boredom that many nursing home residents experienced. His program has now been replicated across the country, and participating nursing homes commit to creating human habitats, with residents at the center, surrounded by plants, animals and children. Elders in these communities have the opportunity to both give and receive care, to engage in meaningful activity, and to experience variety and spontaneity.

A vital part of the Eden Alternative is the de-emphasis on top-down bureaucratic authority, seeking instead to place the maximum possible decision-making authority into the hands of the elders or into the hands of those closest to them.

Green Houses

Green Houses, also the brainchild of Dr. Thomas, build on the concepts of the Eden Alternative. These projects emphasize small communities for elders and staff where necessary medical care is provided, but is not the focus of activity. The Green House is intended to replace large institutions with small, social settings for six to ten elders. Elders have private rooms and baths,

situated around a common kitchen and dining area. Elders have access to outdoor gardens and patios and can choose their own activities throughout the day without the imposition of any kind of sleeping or eating schedule. Green House projects now are being planned or operated in eighteen states.

Advancing Excellence in America's Nursing Homes

Advancing Excellence in America's Nursing Homes is a two year, coalition-based campaign concerned with how we care for elderly and disabled citizens. This voluntary campaign:

- Monitors key indicators of nursing home care quality
- Promotes excellence in caregiving for nursing home residents
- Acknowledges the critical role nursing home staff have in providing care

The campaign builds on the success of other quality initiatives like Quality First, the Nursing Home Quality Initiative (NHQI), and the culture change movement. Campaign goals include creating a culture of person-centered, individualized care and an empowered workforce in nursing homes. The campaign has brought together all long-term care stakeholders, including consumer advocates, medical and quality improvement experts, and enforcement agency officials.

Several thousand nursing homes already have enrolled and committed to working on three out of eight quality indicators: reducing high risk pressure ulcers, reducing the use of daily physical restraints, improving pain management for short-stay, post-acute patients and for longer term nursing home residents, establishing individual targets for improving quality, assessing resident and family satisfaction with the quality of care, increasing staff retention; and improving consistent assignment of nursing home staff, so that residents regularly receive care from the same caregivers.

Quality First

The Quality First initiative, begun in 2002, is a philosophy of quality and a framework for earning public trust in aging services. More important, it is a renewal of our commitment as aging-services providers to help older adults and their loved ones live their lives to their fullest potential. Through Quality First, we work in partnership with all stakeholders - government, consumers and the people we serve and their families - to create quality of care and quality of life in aging services.

AAHSA Quality First provides all AAHSA members with opportunities to reaffirm their public commitment to quality; assess their strengths and opportunities for improvement; pursue continuous quality improvement based on the belief that improvement is always possible; and earn the public's trust and the confidence of consumers. A majority of our members have signed the Quality First covenant, and we encourage all of our members to use the tools provided for assessment of areas in which services may be improved.

Center for Aging Services Technology (CAST)

The application of technology to aging services is one of AAHSA's "five big ideas" for the future of aging services. A few years ago, we established the Center for Aging Services Technologies, which has brought together researchers, technology companies, and long-term care providers to develop and apply technological solutions to aging services issues. These initiatives promise greater efficiency and quality in service delivery at the same time that they will give consumers more choices in the services they may obtain and the settings in which they receive them.

Responses to the challenges related to the workforce crisis

Adequate staffing is a challenge that will not go away for the foreseeable future. The nursing home reform provisions of OBRA '87 contain no set levels of staffing, and the statute's general prescription that staffing must be sufficient for residents to attain and maintain their highest practicable level of functioning has been criticized as inadequate. However, the most recent staffing study by the Centers for Medicare and Medicaid Services concluded that there was insufficient data on which to base and recommend specific staffing levels for nursing facilities. In addition, nursing homes face the same nursing shortage that prevails throughout the healthcare field, and are at a competitive disadvantage as compared to other health care providers in recruiting and retaining the staff they and their residents need.

A recent report to the National Commission for Quality Long-Term Care by the Institute for the Future of Aging Services describes the workforce crisis in the long-term care field and makes a number of recommendations for meeting this challenge. The report lists the need to bring more people into the long-term care field, to provide more competitive wages and benefits, to improve working conditions and job quality, to make larger and smarter investments in education and workforce development, to develop new models of service delivery and to moderate the demand for hands-on care through the application of technology.

AAHSA is working on all of these fronts. We encourage our nursing home members to open their doors to nursing schools and to offer opportunities for rotation through their facilities. We have also supported the concept of career ladders for nursing assistants to enter the field of professional nursing. Since 1989, under a grant from the Patient Care Division of Proctor and Gamble, we have sponsored an annual scholarship program for nursing assistants to become RNs or LPNs. In addition, we have many nursing facility members who have independently developed scholarship or tuition assistance programs to enable nurse aides under their employ to become registered (RNs) or licensed practical nurses (LPNs). Marquardt Manor partnered with the local high school in Watertown to train students to become CNAs, using our home for on the job training.

To address the issue of job quality, the Institute for the Future of Aging Services has undertaken the national Better Jobs Better Care campaign and several other initiatives to research and demonstrate organizational changes that make nursing homes attractive places to work.

Congress also has a role to play in growing staffing resources in our field. The Nursing Workforce Development programs under Title VIII of the Public Health Service Act educate

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nurses, enable them to remain current with developments in their field and enhance their ability to supervise other staff. The programs also include loans to increase the number of qualified faculty at nursing schools, which have had to turn away thousands of applicants for nursing education due to faculty shortages. These programs have been flat-funded for the last several years as the nursing shortage continues to grow. Additional resources are essential to meet the rising need for nursing care, and we urge an increase in funding to \$200 million for these programs in fiscal 2008.

Furthermore, the IFAS report noted the need for more parity in wages and benefits between acute and long-term care settings. Because approximately seventy percent of the cost of nursing home care is paid under Medicare and Medicaid, governmental payment policies disproportionately influence the amount of resources that nursing homes have available to compensate their staff. The Long-Term Care Quality Improvement Act, H.R. 1166, introduced in the House during the last Congress, would have required the Department of Health and Human Services to study the adequacy of the entire package of funding for long-term care, Medicaid as well as Medicare.

This legislation, reintroduced in the 110th Congress as H.R. 3784, calls for nursing homes to report separately on their Medicare cost reports the amounts they spend on wages and benefits for nursing staff, by staff level, breaking out the figures for registered nurses, licensed professional nurses, and certified nurse assistants. Since staffing is so integral to quality of care, AAHSA felt that this requirement would be a strong first step toward aligning payment incentives with quality. Under current policies, Medicare pays for skilled nursing at the same rate whatever the quality of care provided. We understand that CMS is beginning to develop policies to tie payment incentives to quality and we welcome this initiative.

In addition, the IFAS report noted that the negative public perception that is fostered through the media and sensational reports that focus only on the harmful incidents and occurrences in nursing facilities is demoralizing to front-line workers. We recognize and concur that incidents of bad care are intolerable. However, the kind and compassionate care that is provided on a daily basis by the vast majority of nursing home staff members goes without notice. Portraying the entire nursing home profession in a negative light is unfair to the many dedicated staff who work continuously to assure quality care to the residents they serve. Not only does this do a disservice to these individuals, but it results in a chilling effect on our ability to recruit and retain competent, caring individuals. The long-range impact of “negative-only publicity” on our organizations is inestimable.

Recommendations

We believe the nursing home reform provisions of OBRA '87 have led to significant improvements in the quality of nursing home care. However, as implemented the federal survey and certification system fails to give consumers a reliable means of choosing the best nursing home care for themselves or their loved ones. Inconsistency in survey results and the imposition of remedies with a limited right of appeal may cause consumers to avoid facilities that in fact are providing good care. In addition, CMS's efforts to improve state inspections and enforcement and crack down on poor performers still fail to target bad providers, as noted in a recent GAO

report (GAO-07-241). Oversight authorities must expend the same amount of time and resources on facilities with exemplary records as they do on those demonstrating chronic or serious quality of care problems, and facilities that consistently fail to provide appropriate quality of care remain in business.

Specifically, we recommend:

Nursing Home Compare should be revamped to ensure that the information provided is accurate, reliable and understandable to consumers. The site should contain clear explanations of the survey process, what deficiencies mean in plain English and an explanation of the rating system. Information that shows the provider corrected the deficiency would be helpful. In addition, the site should explain the difference between compliance, i.e., that the facility has met the minimum standards at the time of the inspection, and quality. Finally, the “Guide to Choosing a Nursing Home” should be clearly linked on the home page. CMS could consider linking to other organizations’ publications as the Wisconsin website does.

The importance of transitions – in particular from hospital to nursing home – needs to be addressed in a constructive fashion. Ensuring that patients and their families have sufficient information and time to make a decision is critical, as well as ensuring that nursing facilities receive all the information they need from the hospital in a timely fashion.

Part of transparency and accountability is to understand where Medicare dollars are going. H.R. 3784 mandates reporting of expenditure broken out by type of staff, and AAHSA urges support for this measure.

We believe that while OBRA ’87 has led to significant improvements in the quality of nursing home care, some provisions of the statute no longer meet the needs of today’s nursing home consumer.

The nursing assistant shortage has compounded the counter-productivity of OBRA’s two-year disqualification of nurse-aide training programs for facilities found to be out of compliance with certain standards. An inability to train nurse aides, once compliance has been achieved and demonstrated, results in a potential compromise to quality of care that is inappropriate and unnecessary, and is addressed in S. 1980, introduced by Sen. Smith.

Barriers to the takeover of poor performers by new owners with good records of compliance should be removed. Under the current system, a facility’s compliance record and any enforcement remedies sustained by a previous owner are required to be transferred to the new owner. This forces competition between the new owner’s resources to restore quality of care and services to the residents, and the previous owners’ liabilities related to compliance and financial penalties. Faced with carryover liability for heavy fines by a consistently poor performer, healthier facilities are unlikely to step in to try to turn a problem facility around. In areas where long-term care services are limited, residents may have few or no alternatives to remaining in a poor facility, and facilitating new management would be in the residents’ best interests.

The existing mandate that states use civil monetary penalty funds to improve resident care must be better enforced; many states have not adopted programs to implement this requirement and the monies collected are being used for other purposes. To fulfill the mandate, CMP funds should be used for surveyor training, consultation and technical assistance to facilities in developing and implementing quality improvement or resident care protocols.

America's seniors and their families need a quality assurance system that enables them to choose facilities that provide excellent quality of care and quality of life. An approach must be developed that allows surveyors and care-giving staff to work not only on promoting and achieving sustained compliance, but on meeting individual care needs and expectations to improve care. Nursing home care is evolving, and we need a resident-focused system that fosters continuous quality improvement. The focus of the survey and enforcement process should be on fixing problems and offering expert guidance rather than on punishment.⁹

Conclusion

It is appropriate for all stakeholders to take stock of the progress that has been achieved in improving care and services provided by our nursing homes and the ways in which the highest quality nursing home care can be ensured and achieved for the oldest and most vulnerable Americans. It is incumbent upon all of us – government, providers, community – to make sure that consumers have reliable information to select the best nursing homes, and the time and ability to use that information.

AAHSA commits itself and its members to continuous improvement in the quality of care and services we provide, and we look forward to working with the Senate Special Committee on Aging to ensure continued progress in our field.

⁹ The "Patient Safety" movement, building on the seminal Institute of Medicine studies of hospital errors, provides a good starting point for shifting from a "blame" mode to a "fix the problem" mode – in many respects the culture change movement in nursing homes, described above, addresses the recommendations made by IOM and safety experts. AAHSA staff would be happy to discuss this in greater depth with the Committee.

Reliability of the Nursing Home Survey Process: A Simultaneous Survey Approach

Robert H. Lee, PhD,¹ Byron J. Gajewski, PhD,³ and Sarah Thompson, PhD²

Purpose: We designed this study to examine the reliability of the nursing home survey process in the state of Kansas using regular and simultaneous survey teams. In particular, the study examined how two survey teams exposed to the same information at the same time differed in their interpretations. **Design and Methods:** The protocol for simultaneous surveys consists of having one in-region and one out-of-region team survey a facility together. **Results:** The regular and simultaneous survey teams generally agreed about the number of deficiencies. The intraclass correlation coefficient was 0.87 for total deficiencies and 0.76 for deficiencies with scores of G or higher. But in a substantial number of instances the teams did not agree about the scope and severity of the deficiency or about what regulation the nursing home had breached. **Implications:** The survey process is reliable when assessing aggregate results, but it is only moderately reliable when examining individual citations. Stakeholders (i.e., consumers, policy makers, nursing home administrators) should be aware of the limitations of the survey process. It needs to be modified to reduce variability.

Key Words: *Federal citations, F tags, Quality of care, Deficiencies*

In order to participate in Medicare and Medicaid, nursing facilities must meet conditions of participation set by the Centers for Medicare and Medicaid Services (CMS; for a review, see Mullan & Harrington, 2001). In order to ensure compliance with 189 federal regulations, state survey agencies must inspect each nursing facility every 9 to 15

months (CMS, 2005). These regulations fall into several categories: resident rights, quality of life, quality of care, resident assessment, services, dietary, pharmacy, rehabilitation, dental and physician, physical environment, and administration. Surveyors cite deficiencies when a facility does not substantially comply with a regulation. Although the regulations and survey process are federally mandated, state agencies carry out the survey process.

Dissatisfaction with the survey process is widespread. Resident advocacy groups stress that state survey teams often miss important problems with care and fail to respond to complaints quickly. A Government Accountability Office (GAO; 2004) study identified several reasons for these shortcomings: insufficient and inexperienced survey staff, confusion about the regulations, inadequate state oversight of the survey process, and the predictable timing of surveys. Surveyors question the integrity of the inspection, political pressures to water down inspection findings, and the effectiveness of the enforcement process (Grassley, 2004). Industry representatives argue that the current survey and enforcement system "is an entirely subjective, process-oriented snapshot inspection system that focuses on punishment—not quality improvement" (Ousley, 2001 p. 1).

An ongoing concern for all of these stakeholders is that the number of deficiencies varies substantially between states (GAO, 2003). For example, in 2001 the proportion of deficiency-free nursing homes ranged from 33.5% in Virginia to 0% in Nevada, and the mean number of deficiencies ranged from a high of 14.2 per facility in Nevada to a low of 1.9 per facility in New Jersey (Office of the Inspector General, 2003).

Variation also exists within states. For example, the state of Kansas is composed of 6 survey regions. In 2001 facilities in the Northeast Region averaged 11.64 deficiencies, nearly three times as many as facilities in the West Region (3.69 deficiencies). Furthermore, deficiencies in the Northeast Region tended to be assigned higher scope and severity. Administrators and directors of nursing tended to think this heterogeneity reflected differences in the survey process; surveyors thought it reflected differences in facility characteristics. Although they did

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Table 1. Scope and Severity Matrix

Severity of the Deficiency	Scope of the Deficiency, Rating (State Share)		
	Isolated	Pattern	Widespread
Immediate jeopardy to resident health or safety	J (0.2%)	K (0.0%)	L (0.0%)
Actual harm that is not immediate jeopardy	G (5.8%)	H (0.0%)	I (0.0%)
No actual harm with potential for more than minimal harm that is not immediate jeopardy	D (45.0%)	E (34.0%)	F (9.7%)
No actual harm with potential for minimal harm	A (0.0%)	B (0.9%)	C (4.3%)

Notes: The State Share is the percentage of deficiency citations with this scope and severity cited in surveys of free-standing Kansas nursing homes in 2003. F, H, I, J, K and L deficiencies may constitute substandard quality of care. Fines may be levied or restrictions on participation in Medicare and Medicaid may be imposed.

not resolve this question, our earlier analyses found statistically significant regional differences ($p < .001$) even after controlling for size, case mix, nursing hours per resident day, and ownership (Forbes-Thompson et al., 2003). The reliability of the survey process appears to be worthy of careful study.

The purpose of this study was to evaluate in some depth how and why Kansas survey teams varied in their assessments. More specifically, our aim was to compare the findings of two survey teams exposed to the same information at the same point in time. We addressed this aim using a mixture of quantitative and qualitative methods.

An overview of the survey process provides a context for our study. Surveys entail standard procedures plus flexibility once a team enters a nursing facility. The process begins with presurvey preparation that includes a review of the facility's quality indicators (Arling, Kane, Lewis, & Mueller, 2005), history of complaints, and previous survey results. The team then proceeds to an entrance conference with the administrator and an initial tour. After this the team selects a group of residents, based on pre-survey information and the initial tour, for a more in-depth review. Using protocols established by CMS, the survey team gathers information in a number of ways, including medical record reviews, observations of direct resident care, resident interviews, family interviews, and observations of events such as activities and meals. Each phase of the survey process has detailed written guidelines, and as information is gathered, the team reviews it and sharpens the focus of the survey on potential problem areas.

This structure allows teams to react to and explore problems identified during data collection. It also allows for prioritization of problems while on

site. However, this flexibility may also increase the variability of the survey process, because surveys of apparently similar facilities may focus on quite different aspects of care. How detailed a survey becomes also may depend on the observational skills of the surveyors, the clinical and management skills of the surveyors, or the number of problems found.

On the last day of the survey, surveyors meet to interpret their findings and to identify the number, scope, and severity of deficiencies that they found. The survey team then meets with the administrative staff and shares its preliminary findings. In Kansas, a quality improvement coordinator reviews these findings before the team submits the final survey report to the Department on Aging.

We should note that the final survey report may not be "final." Nursing homes can appeal any deficiencies or penalties through an informal dispute resolution process. Reductions in the number, scope, and severity of citations are common (GAO, 2003a).

Some deficiencies identify more serious problems than others, and some deficiencies allow for the imposition of more serious penalties. Table 1 outlines the scope and severity of deficiencies that surveyors may cite. Ratings A through C indicate substantial compliance with recommendations, so only Category 1 remedies are permitted (Office of the Inspector General, 2005). These remedies include development of a plan to correct the problem, enhanced monitoring by the survey agency, or mandatory training. Teams often do not cite such deficiencies. There were 0 A citations in Kansas in 2003, 21 B citations, and 96 C citations.

Citations that are rated D, E, or G permit imposition of Category Two remedies. These remedies include fines, denials of payment for new admissions, or denials of payment for all residents. These are the most common types of citations. More than 1,700 D and E deficiencies were cited in Kansas in 2003. G deficiencies are far less frequent; only 129 were issued in 2003.

Deficiencies that are rated F, H, I, J, K, or L can result in Category Three remedies. These include fines, termination from Medicare and Medicaid, and temporary management by an individual chosen by the state agency. F deficiencies are fairly common; more than 200 were cited in 2003. In contrast, H–L deficiencies are uncommon. A total of 5 J deficiencies were cited in 2003.

In most instances, the Department on Aging imposes Category Two or Three penalties only when a nursing home has failed to make corrections by the time of its resurvey. As a result, Category Two or Three penalties are not common. During the second and third quarters of 2003, the Kansas Department on Aging imposed fines on 11 nursing homes and admission bans on 18 (Kansas Department on Aging, 2004). The Department did not terminate any nursing homes from Medicaid or install temporary management in any nursing homes.

Table 2. Simultaneous Survey Protocol

Protocol
<ol style="list-style-type: none"> 1. The RST guided all aspects of the survey process and followed normal policies and procedures. 2. RST assignments (e.g., who would conduct the closed record review) were shared with the SST so that the respective team members would be informed of their responsibilities. 3. All team meetings to discuss findings were held in separate locations and tape recorded for evaluation by the research team. 4. Preliminary off-site preparation was conducted in separate locations. The SST received the same presurvey documents to review as the RST. 5. The RST and SST were matched teams and respective SST members followed respective RST members one on one. 6. Team members were not allowed to discuss assessments or interpretations with members of the other team. 7. If the RST did not raise a concern, the SST was not allowed to pursue that issue. The SST was to document the issue in field notes. 8. Members of the SST followed respective RST members continuously (e.g., into residents' rooms to observe care and into meetings to interview staff). 9. All survey-related information (e.g., policies and procedures) were requested by and directed to the RST. Copies were made for the SST. 10. Teams and facilities were informed that the findings of the SST were not related to the facility's certification and state licensure.

Notes: RST = regular survey team; SST = simultaneous survey team.

The Department also recommended additional federal penalties to CMS.

Methods

Setting and Sample

Kansas has six geographical survey regions. Each region has at least two trained survey teams, a quality improvement coordinator, and a regional manager.

During the summer of 2003, we randomly selected two nursing homes from each region from a list of facilities scheduled for resurvey. We excluded from consideration nursing homes with fewer than 50 beds in order to reduce the burden on small facilities of having two survey teams in their home. Twelve homes comprised the sample for what we labeled "simultaneous surveys."

The simultaneous survey teams consisted of one in-region team (the regular survey team or RST) and one randomly selected out-of-region team (the simultaneous survey team or SST). The regional manager overseeing the annual survey selected the RST. The manager from another randomly selected region selected the SST. In order to ensure that survey differences were not due to their composition, we matched teams in size and expertise. For example, if the RST included their quality improvement coordinator, the SST also sent their quality improvement coordinator.

This design reflected two considerations. First, as we noted above, there were indications that the survey process varied by region. In order to examine this, the SST needed to come from a different survey region than the RST. Second, in order to ensure that the regular survey would be seen as valid by all interested parties, the RST needed to be assigned by the usual practice in that region. Otherwise a simultaneous survey might place a nursing home at a competitive advantage or

disadvantage. Clearly, other designs might be preferable in other circumstances.

Procedures

Table 2 outlines the simultaneous survey protocol. The RST entered facilities following the normal protocol as prescribed by CMS. A member of the research team immediately informed the administrator that the SST would be following them as part of a quality improvement evaluation. A member of the research team also informed the administrator that the SST would not be interviewing staff, looking at or requesting additional records, or evaluating residents on their own. The SST would be shadowing the RST and reviewing its information. The RST directed the survey in accordance with policies and procedures. Members of the SST followed their RST counterparts to observe the same environmental dynamics; however, we did not allow the two team members to discuss interpretations or assessments with each other.

Survey teams usually meet several times during a survey to review what information they have collected to that point. These meetings then guide the remainder of the survey. For example, teams can use these meetings to decide which resident problems should be emphasized or which additional staff interviews are needed. The RST and SST conducted their meetings at the same time in different locations and tape recorded them. We had instructed SST members to document the problem areas and interviews they would follow up on if they were conducting a regular survey; we used the information obtained from both teams in order to evaluate consistency and provide insights into decision-making processes that influenced survey results. A member of the research team was onsite to ensure that the RST and SST

Table 3. Deficiencies Cited by the RST and the SST

Facility	Total Deficiencies		G+ Deficiencies ^a		Same F Tag, Different Scope or Severity	Distinctly Different F Tags
	RST	SST	RST	SST		
1	22	23	2	2	5	14
2	3	3	0	0	1	0
3	30	31	3	5	6	14
4	9	19	0	1	4	11
5	16	24	0	1	9	11
6	17	17	2	1	7	6
7	19	15	0	1	4	5
8	18	23	1	2	6	15
9	8	9	1	1	1	7
10	13	16	0	0	6	7
11	0	1	0	0	0	1
12	6	3	0	0	0	5
Total	161	187	9	14	49	96
Intraclass correlation coefficient	0.87		0.76			
95% confidence interval	0.64–0.96		0.38–0.92			

Notes: RST = regular survey team; SST = simultaneous survey team.

^aG+ deficiencies include G, H, I, J, K, and L, but none higher than H were cited.

members followed the protocol and did not share information with one another.

Protocol Rationale

We took several issues into consideration when designing this protocol. One was to avoid compromising the quality of resident care. Survey teams tend to disrupt normal routines, and we were concerned that repeated inspections would lead to repeated disruptions. In addition, our primary goal was to evaluate the performance of two teams exposed to the same information. Because nursing homes must address violations that teams observe during the course of an inspection, having back-to-back surveys would not have guaranteed that a follow-up survey team would have been exposed to the same problems. Conducting simultaneous surveys minimized disruption and ensured that both teams analyzed the same information.

Data Analysis

Our aim was to describe how and why the conclusions of the RST and SST differed. We used a triangulated design using both quantitative and qualitative methods (Fielding & Fielding, 1986; Jick, 1979). Our analysis of how the conclusions differed was largely quantitative. We designed the qualitative analyses to add depth to the analyses and to help answer why the reports of the teams differed.

Our approach examined the data at two very different levels of aggregation. First, treating each nursing home facility as a random effect, we calcu-

lated the intraclass correlation coefficient (ICC). The ICC equals the between-facility variance divided by the sum of the within-facility variance (from RST and SST) plus the between-facilities variance. Perfect agreement between the two survey teams would result in an ICC of 1.0, and complete randomness would result in an ICC of 0.0. Recognizing that differences in the scope and severity of deficiencies matter as well as the number of deficiencies, we cross-tabulated the deficiencies by the levels of harm cited by the RST and SST and calculated a Kappa statistic. Kappa measures how much the agreement between the teams exceeds the amount expected by chance. Complete agreement would give a Kappa of 1.0, and agreement that is no better than chance would give a Kappa of 0.0.

In order to assess why the conclusions differed, we performed a content analysis (Weber, 1990). Two registered nurse researchers, one with formal training in the survey process, independently reviewed the content of all of the written documentation for each team (researcher field notes, team notes, and meeting transcripts). They then met to resolve any differences in their reviews. In order to ensure confidentiality, we substituted numbers for resident names in these materials, and we restricted access to the materials to the research team.

In order to explore what prompted differences between the teams, the content analysis examined the data that the RST and SST used to reach their conclusions. At issue was whether the teams described different problems or characterized the same problems in different ways. For the same infraction, for example, one team could cite F-tag F221 “no unnecessary physical restraints” and another team could cite F-tag F223 “free from abuse.” If both registered nurse researchers agreed that the RST and SST had cited the facility for separate shortcomings, they categorized the F tag as “distinctly different.”

Results

ICCs

Table 3 shows that the RST and SST cited similar numbers of deficiencies. The ICC for total deficiencies cited by the two teams was 0.87 with a 95% confidence interval of 0.64 to 0.96. Given that values greater than 0.70 indicate good reliability, this is quite high (Kramer & Feinstein, 1981). The RST and SST also cited similar numbers of G+ deficiencies. The ICC was 0.76 with a 95% confidence interval of 0.38 to 0.92. The SST cited more deficiencies than the RST for 8 of the 12 nursing homes, but a paired *t* test failed to reject the hypothesis that the means were the same.

Counts do not fully describe the decisions of the RST and SST. Table 3 also shows that in 49 instances the RST and SST agreed about which regulation was being breached but differed on the

scope and severity. In another 96 instances, the two teams cited distinctly different deficiencies, meaning that they identified different failures to comply with the regulations. The number of distinctly different deficiencies rose with the number of citations. The correlation with RST citations was 0.76 and the correlation with SST citations was 0.89. Both correlations were significantly different from 0 at the 0.01 level.

Kappa Statistics

Table 4 cross-tabulates the findings of the RST and SST, focusing on the levels of harm identified. With 12 facilities and 189 regulations, 2,268 violations were possible. Overall, the level of agreement was moderate, as we estimated a Kappa of 0.57 (Landis & Koch, 1977). Kappa estimates the degree of consensus while controlling for the amount of chance agreement to be expected based on the marginal distributions (Stemler, 2004). Because the RST and SST found no deficiencies most of the time, we needed this control in order to avoid overstating reliability.

In most instances neither team found a violation. The RST found no violations 92.9% of the time, and the SST found no violations 91.8% of the time. The SST agreed with the RST 96.5% of the time.

The teams seldom cited deficiencies entailing no actual harm with potential for minimal harm. The RST gave 11 A, B, or C citations, and the SST gave 9. The similar totals masked considerable disagreement. The SST found no deficiency for 55% of the A–C deficiencies cited by the RST and found a D–F deficiency for 18%. The RST found no deficiency for 11% of the A–C deficiencies cited by the SST and found a D–F deficiency for 56%.

Deficiencies with D–F scope and severity levels, which entail a finding of no actual harm with the potential for more than minimal harm, were the most common citations. Most disagreements also involved these deficiencies. Of the 141 cited by the RST, the SST cited no deficiency for 29%, an A–C deficiency for 4%, a D–F for 63%, and a G–I for 4%. Of the 164 D–F deficiencies cited by the SST, the RST cited no deficiency for 42%, an A–C deficiency for 1%, a D–F deficiency for 54%, and a G–I for 2%. In short, both teams cited no deficiency in a substantial number of the cases in which the other team issued a D–F deficiency.

Deficiencies involving actual harm were uncommon. Even so, the teams differed in their conclusions. The SST cited a D–F deficiency for 4 of the 9 G–I deficiencies cited by the RST and found no breach of the remaining regulation. The RST cited a D–F deficiency for 6 of the 14 G–I deficiencies cited by the SST and found no breach in four instances.

Neither team cited J, K, or L deficiencies, which involve immediate jeopardy for residents.

Table 4. Cross-Tabulations of Deficiencies by Level of Harm

Deficiency	No Deficiency	A–C	D–F	G–I	J–L	RST Totals
No deficiency	2,033	1	69	4	0	2,107
A–C	6	3	2	0	0	11
D–F	41	5	89	6	0	141
G–I	1	0	4	4	0	9
J–L	0	0	0	0	0	0
SST totals	2,081	9	164	14	0	2,268

Notes: RST = regular survey team; SST = simultaneous survey team.

A–C deficiencies find no actual harm with potential for minimal harm. D–F deficiencies find no actual harm with potential for more than minimal harm. G–I deficiencies find actual harm for residents. J–L deficiencies find immediate jeopardy for residents.

Kappa = 0.57.

Content Analysis

As noted above, ICC and Kappa calculations do not fully take into account the differences between the RST and SST. A closer examination of Facility 6 illustrates this. The RST and SST cited the same number of deficiencies, yet there were important differences in their findings. In seven instances the teams disagreed on the scope and severity of the deficiencies, and in six instances the teams cited distinctly different deficiencies. Most of the scope and severity differences were minor, but not all. The RST and SST both identified quality of care deficiencies in the management of pain. The RST assigned an E deficiency, and the SST assigned a G, implying actual harm to residents. The RST and SST both identified deficiencies in the treatment of residents with pressure ulcers. The RST assigned a G deficiency, and the SST assigned a D. In addition, the RST cited three deficiencies that the SST did not: not having an adequate activities program, improperly ordering medications, and not having a backup power supply system. The SST cited four deficiencies that the RST did not: failing to reassess a resident whose condition had changed, not taking adequate care to prevent urinary tract infections, having an overly high medication error rate, and failing to investigate a bruise of unknown origin.

Some disagreements reflected different interpretations of the facts, even though the RST shaped the information that both teams had. For example, in Facility 4 the RST issued a D quality of care citation because the facility failed to follow its own protocol in caring for a resident with a pressure ulcer. The SST identified additional problems with the care provided to this resident and saw similar problems in the care of another resident. The SST issued a G quality of care citation. In another instance, both the RST and SST cited Facility 3 for failures to provide an appropriate accounting of resident funds. The initial citations were both Es, but the SST ultimately assigned an H. The difference appeared to spring

from the conclusion of the SST that at least three items that had been purchased with residents' funds could not be found anywhere in the facility, an issue that the RST did not address. The SST issued an additional H citation for staff treatment of residents and revised its citation for improper accounting of resident funds citation to an H.

Overall, SSTs cited 26 more deficiencies than RSTs, with 18 of these coming from Facilities 4 and 5. For Facility 4, the SST final report identified 10 more deficiencies than the RST final report. The SST issued seven D citations for problems that the RST did not identify or discuss. The SST also issued two citations for problems that the RST combined into one deficiency. After consultation with the regional office, the RST chose not to cite two problems that both teams had identified. In one instance the RST discussed a problem that the SST cited, but decided not to cite the facility. (The RST also cited one deficiency that the SST did not.) For Facility, 5 the SST identified eight more deficiencies than the RST. Five of these deficiencies were due to inconsistencies between the care plan and the care provided that the SST examined and the RST did not. The missing care included activities for one resident, assistance with eating for another resident, protective booties for a resident at risk for pressure ulcers, a contracture boot for another resident, and range of motion therapy for yet another resident.

Our observers noted a striking difference in how the teams tracked medication administration. In Facility 4 the RST focused on one of the medications given to a resident, but the SST made notes on all of the resident's medications. The two teams found similar numbers of errors, but the SST calculated a much lower error rate because the denominator was much larger. The RST gave an E deficiency to Facility 4 for medication administration; the SST did not.

In their discussions, SST members critiqued the RST fairly regularly. For example, the SST notes for Facility 6 included comments that, "I would have followed up more on [the] broken thermostat," and "I would have knocked and checked" to see if a resident scheduled for an interview was in her room with the door closed. The SST notes for Facility 11 noted that there were unasked questions about a "resident being left alone on toilet and orthostatic hypotension" and "fall investigation." Additionally, some teams identified deficiencies by "running through the regulations." Other teams identified deficiencies by running through the leader's concerns.

Yet attributing these differences to the teams obscures the important roles of other staff.

Teams discuss concerns with their regional managers and quality improvement coordinators several times during a survey. Furthermore, teams discuss their findings with these administrative staff following their decision-making meeting. Again, this process has both strengths and weaknesses. On the one hand,

the experience of regional managers and quality improvement coordinators allows them to assist more junior surveyors by providing guidance and putting information into perspective. On the other hand, most regional managers and quality improvement coordinators are not on site and so provide guidance without seeing the evidence firsthand. Analyses of meeting and field notes indicated that the number of changes between the initial and final reports ranged from 0 to 14 per team.

Several comments indicated that regional managers had a significant influence on the survey process. For example, some regional managers did not encourage surveyors to write deficiencies for paperwork violations unless there were concomitant care problems. In addition, some surveyors noted that their regional managers instructed them that hand washing had to be a huge issue before they should cite it. One team commented that their regional manager would never let them go into an extended survey for a particular F tag. Some teams made a point of staying for the first meal after entering the facility, and others did not. Some teams were very methodical in their decision-making style, going in order through the regulations, whereas others discussed concerns according to their priority or in top-of-mind order. In short, different teams used different processes.

An important finding was that teams differed in assessments of scope and severity for the same resident care issue. Our content analysis identified several instances in which there were no clear right or wrong assessments of scope and severity. When teams disagreed on the scope and severity, we could trace these differences to differences in interpretations of the regulations and of the interventions provided by the facility.

An example dealing with pressure ulcer prevention and healing illustrates the difficulty with scope and severity determinations. The *Facility Guide to OBRA Regulations, and Interpretive Guidelines and the LTC Survey Process* offers the following guidance:

A determination that development of a pressure sore was unavoidable may be made only if routine preventive and daily care was provided. Routine preventive care means turning and proper positioning, application of pressure reduction or relief devices, providing good skin care, (i.e., keeping the skin clean, instituting measures to reduce excessive moisture), providing clean and dry bed linens, and maintaining adequate nutrition and hydration as possible. (p. 22)

Their notes indicated that surveyors seldom had difficulty in determining whether the facility identified the resident as being at risk. But surveyors looking at the same evidence disagreed on whether the facility interventions were aggressive enough or

whether the facility tried enough different interventions. Surveyors scrutinized the data collected and took their decisions very seriously but had differing perceptions of when a facility had done enough.

Discussion

Even though the teams examined the same data, they often differed in the number, scope, and severity of deficiencies cited. The teams also routinely assigned different F tags when they cited facilities. In short, the teams generated substantially different surveys from the same facts. Yet abstracting from the details of the surveys, the teams painted very similar pictures of facilities' overall compliance with federal regulations.

These data support two very different interpretations. One stresses the variability of the survey process; the other stresses its global consistency. The variability interpretation notes that the two survey teams often reached different conclusions about whether a deficiency existed, what regulation had been breached, the scope of the deficiency, or the severity of the deficiency. These differences, furthermore, might well have consequences. The penalties imposed by the survey agency, the career prospects of facility managers, and the responses of consumers are likely to be different for a nursing home that gets 7 D deficiencies than for a nursing home that gets 12 D deficiencies and 1 G.

The variability of the survey process reduces its value to nursing home managers, who should be the primary users of its detailed findings. The same process can draw no deficiencies from one survey team and multiple deficiencies from another. As a result, nursing home administrators and directors of nursing cannot be confident that a good survey means that a process works well. Nor can administrators and directors of nursing be confident that genuine improvements in care will result in a better survey if the next team relies on different interpretations of the regulations and what constitutes having done enough. Speaking for a number of her peers, one director of nursing described the survey process as "demoralizing." Improvement efforts are inhibited by a survey process that falls short of systematic, replicable data gathering and analysis (Schnelle, Osterweil, & Simmons, 2005).

The variability of the survey also reduces its value to regulators and policy makers. The inspection is supposed to provide assurance that a nursing home is in substantial compliance with federal and state regulations, either at the time of the inspection or after completion of a plan to correct problems. An unreliable survey process may mean that nursing homes that do not actually meet federal or state standards will be eligible for Medicare and Medicaid payments. The many disagreements of these two teams about whether a regulation had been breached, which regulation had been breached, and

how serious the breach was cannot make federal or state officials comfortable.

The variability perspective would also note that we had designed the structure of this study in order to exclude some forms of variation. Had they not been constrained to look at the data assembled by the RST, the members of the SST might well have gathered different facts and identified different problems. Indeed, comments to this effect by members of the SST were routine. It is likely that this study understates the variability of the survey process.

Yet these data also highlight the overall consistency of the survey results. The total numbers of deficiencies and the number of G+ deficiencies cited by the RST and SST were quite similar. If consumers rely on the total number of deficiencies or the number of high-level deficiencies as measures of quality, our results suggest that consumers should view surveys as highly reliable. We do not know how consumers use nursing home survey results, but their structure suggests that consumers should use them as part of a broader assessment process. Surveys may not reflect current conditions in a nursing home and should be used with care, just like any other measure.

Viewed at a macro level, this study suggests that, given the same data, the two teams reached very similar conclusions. Viewed at a micro level, this study suggests just the opposite. Although state survey agencies and consumers may feel comfortable focusing on macro results, managers must make decisions at the micro level, and their concerns about reliability weaken the credibility of the survey process. In order to reduce the variability of survey results, changes in the survey process and in the training of surveyors warrant consideration. The CMS trial of the Quality Indicator Survey appears to be a promising initiative (CMS, 2004). This five-state experiment enhances training, sampling, and decision support software to make surveys more structured.

This article suggests that surveyors need more specific criteria, in the form of decision-making algorithms, to reduce the influence of individual perceptions. These findings concur with other evaluations of survey consistency (GAO, 2003b; Office of the Inspector General, 2003, 2004). CMS has begun a process of developing and evaluating clearer guidelines for surveyors. Our findings support that effort.

These results also suggest that continued efforts to standardize training and decision rules are important. Especially at the state level, common understandings of what constitutes a breach of the regulations should reduce the angst of the industry and increase the confidence of regulators and the public. In assigning the number, scope, and severity of deficiencies, consistency is of primary importance.

One should not overlook the limitations of this study. It applies to one state with a specific administrative structure. Moreover, the sample used in this study was not large. And, although they were

randomly selected and generated data comparable to statewide averages, we cannot guarantee that the facilities or survey teams were representative of Kansas. The results should not be generalized to other states. Furthermore, this study eliminated differences in the information collected. As a result, the differences reported here were entirely due to differences in interpretation. As we noted above, these results seem likely to understate the variability of survey results in the wild.

It is important to remember that the survey process is designed to measure compliance with federal regulations. It is tempting to infer that a survey with few deficiencies identifies a good facility and a survey with many deficiencies identifies a bad one. Indeed, numerous research studies and consumer guides do exactly that (e.g., Castle, 2000; Castle & Mor, 1998; Harrington, O'Meara, Kitchener, Simon, & Schnelle, 2003). Yet, as one surveyor noted, "The number of deficiencies is not a good quality indicator for whether I would put my mom somewhere or not. You know it relates back to what was the scope and severity of those deficiencies and what were those deficiencies really about" Our results suggest that the survey process is only moderately reliable in describing the scope and severity of nursing home deficiencies. Given that compliance with federal regulations may well have changed since the survey was completed, consumers should use the survey results with care.

Many states and CMS rely on public reporting of survey results as a spur to better nursing home care. Indeed, this appears to represent an important de facto shift from a policy of pure deterrence to a policy of deterrence plus transparency (Chou, 2002). Consumers evidently seek this information. Yahoo! reports that "Nursing Home Compare" is the nation's second most popular nursing home care site and is one of the most frequently visited sections of the Medicare Web site (Office of the Inspector General, 2004; Yahoo! Health Directory, 2005). As a result, the reliability of nursing home surveys becomes an even more visible public policy issue. Survey results will have the greatest impact on nursing home quality if consumers and the industry believe that deficiencies are valid, reliable measures of quality. This belief will be undercut by variations in the number, scope, and severity of deficiencies when the facts are held constant. The appropriate policy response is to acknowledge these variations and address them by clarifying definitions and interpretations, by improving training, and by providing feedback to surveyors. Simultaneous surveys like the ones reported here should become standard features of survey agencies. Using simultaneous surveys as a calibration tool is clearly feasible.

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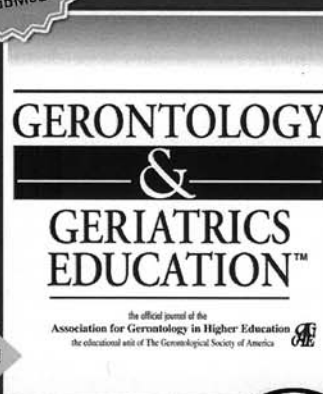
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