THE INFLUENCE OF TOP MANAGEMENT IN LONG-TERM CARE:

2009 Indiana Long Term Care Leadership Conference on Staffing Strategies, September 17, 2009 in Indianapolis,

Indiana

Nicholas G. Castle, Ph.D. CastleN@Pitt.edu

Graduate School of Public Health

University of Pittsburgh



OBJECTIVES:

- Introduction
 - From PA
 - Research
 - Format
- Motivation
 - Thank you!
- Competencies
 - Language
- Feedback



OVERVIEW:

- BACKROUND
 - OPERATING ENVIRONMENT
 - Competition
 - Patient Safety
 - Report Cards
- STAFFING
 - Turnover
 - Staffing levels
 - Agency staff
- TOP MANAGEMENT
 - Characteristics
 - Importance
 - leadership
- CONSEQUENCES OF INADEQUATE LEADERSHIP
- HOW TO ACHIEVE IMPROVEMENTS?



OVERVIEW:

- Long Term Care Leadership Conference on Staffing Strategies
 - Long-term care
 - Leadership
 - Staffing



OVERVIEW:

- "Everything that can be counted does not necessarily count; everything that counts cannot necessarily be counted"
- -- Albert Einstein





- Why we need leaders and leadership?
- Competition
 - Assisted Living
 - Approximately 20,000 facilities in US
 - Home to more than 1,000,000 Americans
 - Provide residents with some degree of:
 - Health care
 - Psychological care
 - Social care
 - Focus on private-pay market
 - Medicaid waivers



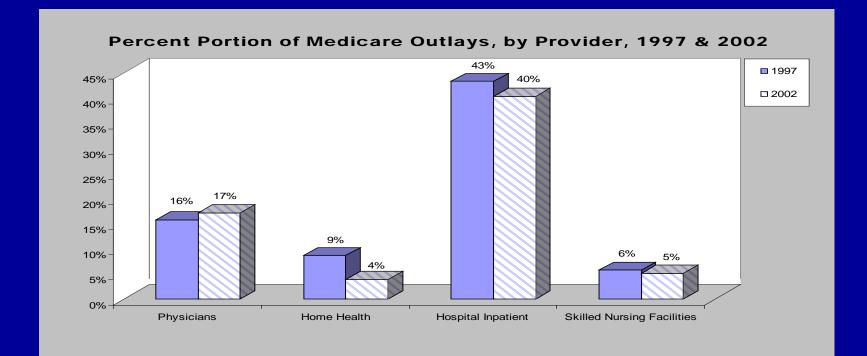


- Competition
 - "Aging-in-place"
- Consumer services at home
 - · i.e., avoid institutional care
 - · And at all costs avoid nursing home care
- Lots of policy traction
 - Save costs
 - · Consumers like it
 - · Americans with Disabilities Act (ADA) / Olmstead
 - New Freedom Initiative
 - Home and Community Based Services (HCBS)
- Not well evaluated
 - Likely to work "best" for Residential Care
- Home Care
 - Sensor technology
 - Elevators (etc)



Reimbursement

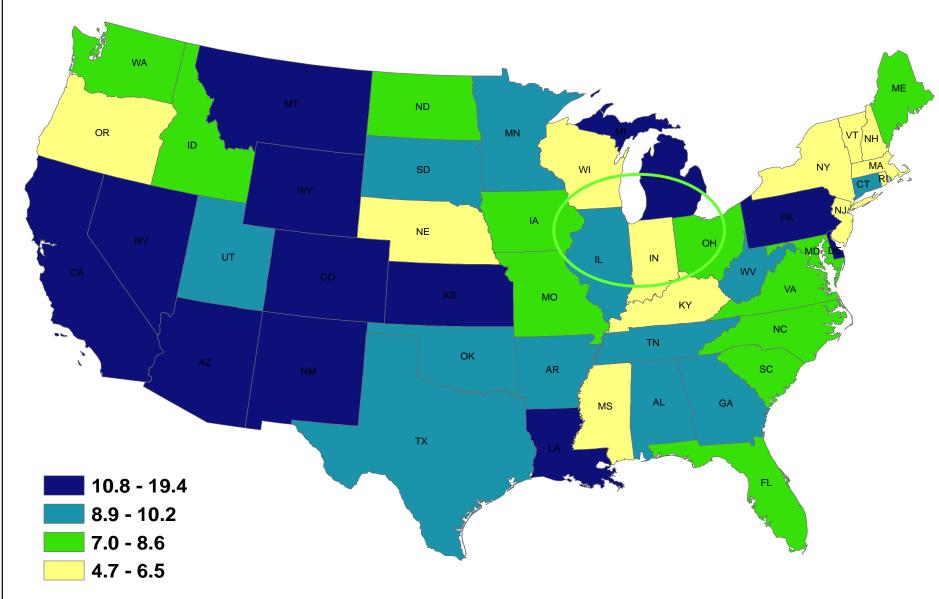
- Medicaid
 - Little increase over past 5 years
 - Average \$100 per day
 - Variation across states
- Medicaid \$ are strongly associated with Quality (NHs)
- Medicaid census strongly associated with Quality (NHs)
- Medicaid census strongly associated with staffing "issues" (NHs)



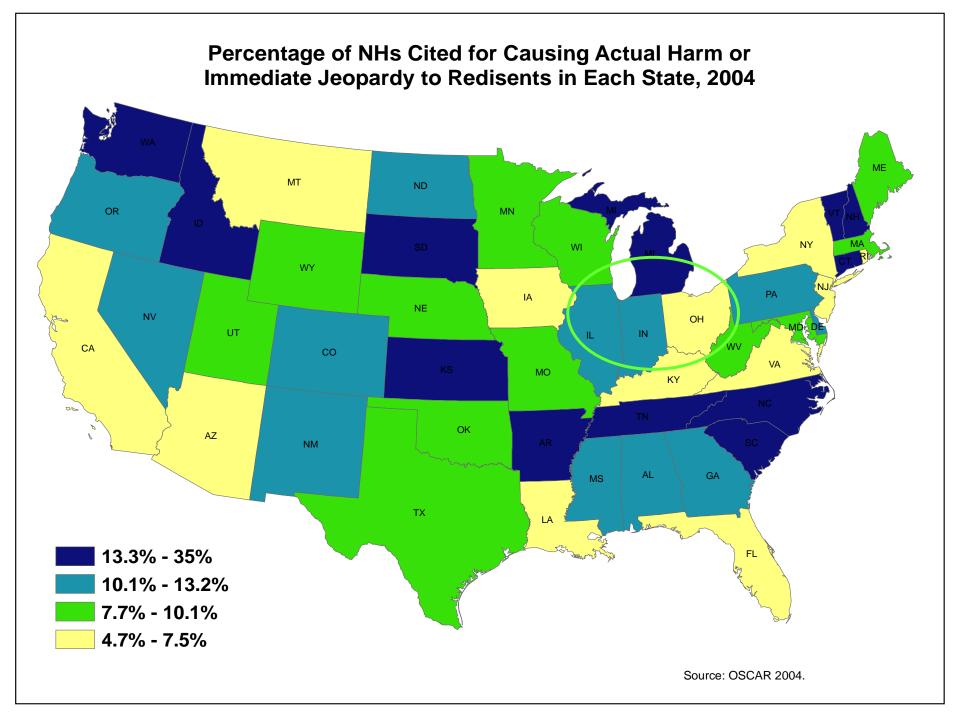
Regulation

- **■**Certification (licensure)
- A nursing home deficiency citation is "a finding that a nursing home failed to meet one or more federal or state requirements" (Department of Health and Human Services [DHHS], 2004: 34).

State Average Total Number of Deficiencies Per Nursing Home, 2004



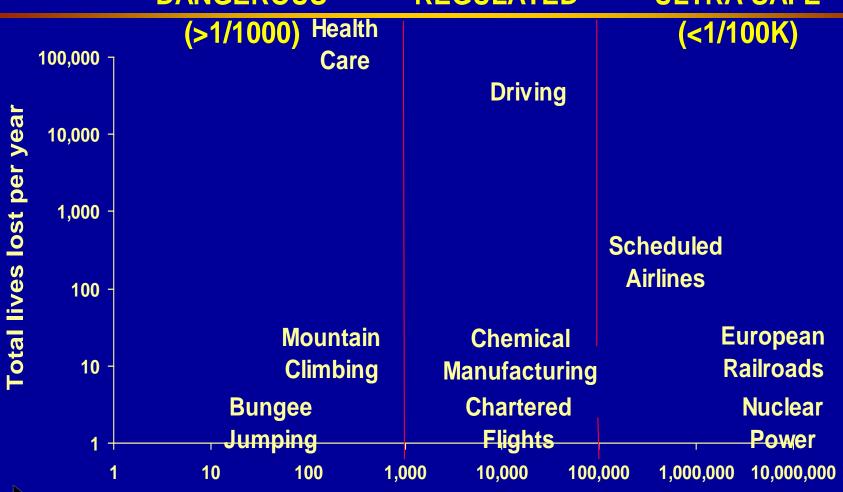
Source: OSCAR 2004.



- Resident Safety Movement
 - The latest 'regulatory' fad?
 - The new buzz word?
 - The new consulting opportunity?
- Justifiable advancement in the art of caregiving and science of caregiving?



How Hazardous Is Health Care? DANGEROUS REGULATED ULTRA-SAFE



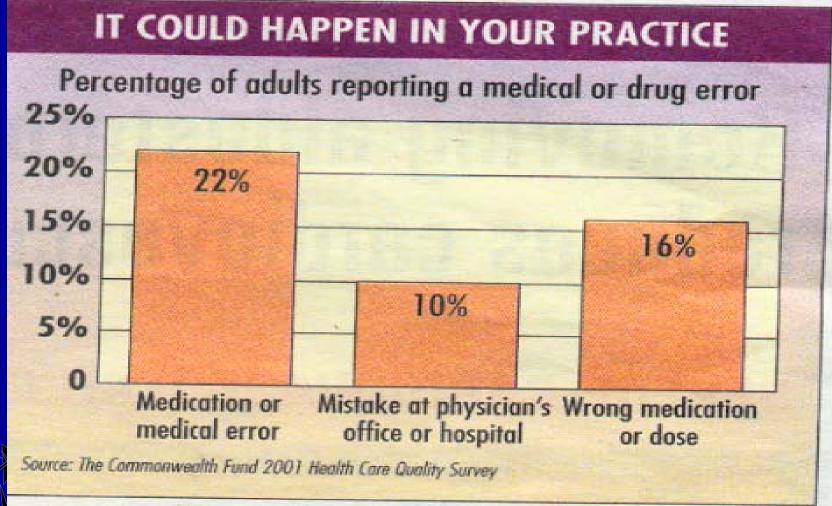
Number of encounters for each fatality



Causes of death in US – all ages year 2000

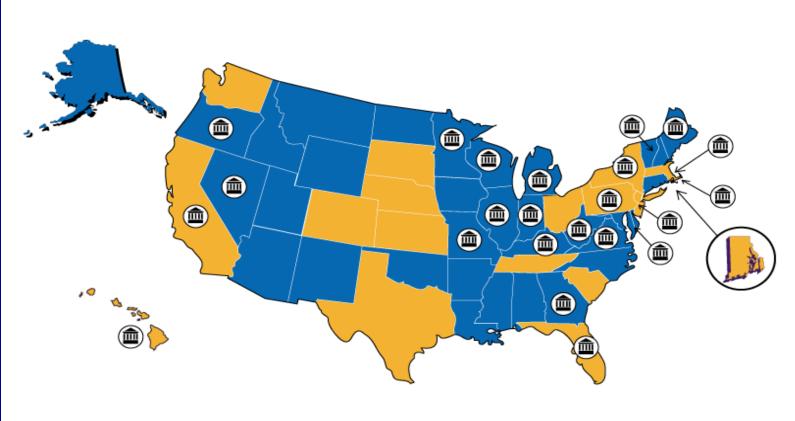
- 1. Heart disease: 710,760
- 2. Chronic, low respiratory disease: 122,000
- 6. Diabetes: 69,301
- 8. Alzheimer's: 49,558
- 9. Motor vehicle accidents: 41,994
- *IOM (2000): Annual patient deaths attributed to <u>medical error</u> in US hospitals: <u>44,000-98,000</u> Estimated cost: \$17 \$50 billion
- ** HealthGrades Report (2004): **191,000** deaths/yr Estimated cost: \$6.3 billion/yr
- *** NOTE, Nursing Homes (long-term care, still not included in these figures)

IT COULD HAPPEN TO YOUR NURSING HOME





LEGISLATIVE RESPONSE Reporting Medical Errors: Current & Pending Legislation





15 States Currently Requiring Mandatory Reporting of Medical Errors



23 States Introduced Pending Legislation

Current Thinking

- It is a System Problem
- "...The real problem is not how to stop bad doctors from harming, even killing their patients, it is how to prevent good doctors from doing so."
- Atul Gawande, MD
 Annals of Internal Medicine, 1998



- How many adverse events at your facility?
- How many close calls at your facility?
- How many errors at your facility?





Report Cards

"instead of imposing new rules..."

"...to publish data on the number of workers at each nursing home in the hope that staffing levels may simply increase due to the market demand created by an informed public."

Source: R.Pear, "9 in 10 Nursing Homes Lack Adequate Staff, Study Finds." The New York Times, 2002



Report Cards

- 25% of nursing homes have <u>serious</u> quality problems
- 40% of nursing homes provide <u>consistently</u> poor care
- Nursing homes <u>under-perform</u>
- Errors still to be determined (assumed very high)
- Residents <u>suffer</u> in many ways
 - "-ve" approach to report cards





Report Cards

- Nursing Home Compare
- 19 state report cards
- 10 proprietary report cards
- 100s of online "help" firms/agencies





Surgery Scorecard

Rating New York City area hospitals on abdominal aortic aneurism surgery. To look for your hospital's performance in a variety of areas, see page D2.

HOSPITAL	IN 2000	MORTALITY RATE
St. Francis Hospital	105	7.86%
Mount Sinai Medical Center	95	8.98%
North Shore Univ. Hospital	76	7.52%
Winthrop University Hospital	66	11.56%
Montefiore Medical Center	54	7.26%
LIJ Medical Center	53	9.35%
Westchester Medical Center	49	5.26%
Maimonides Medical Center	34	9.16%



Source: Empire Blue Cross and Blue Shield

Graduate School of Public Health

University of Pittsburgh

Study: Choosing right hospital can be lifesaver

HOSPITALS

from Page 1A

tients would be better served if certain kinds of complicated surgeries were performed at just a few hospitals.

It's a contentious issue: Some hospital officials note that large-scale studies such as this one obscure the actual track records of individual hospitals. A physician cautioned in JAMA that the studies the UCSF researchers relied on for their data may in themselves be

There are real life and death differences between hospitals, and that shouldn't be ignored.

- Dr. R. Adams Dudley, study author

AVOIDABLE DEATHS

Researchers found that more than 25 percent of the 2,273 deaths after certain surgeries in California hospitals in 1997 might have been avoided if patients went to hospitals that had a "high volume" practice in the kind of treatment they underwent.

Medical condition	Patients admitted	Total deaths	Avoidable deaths
Heart bypass	21,452	952	258
Lower extremity bypass	4,054	194	37
Heart transplant	21	0	0
Pediatric heart surgery	468	26	7
Coronary angioplasty	16,070	327	80
Abdominal aneurysm	1,837	107	40
Carotid artery	7,476	73	16
Cerebral aneurysm	818	83	36
Esophageal cancer	130	9	7
Pancreatic cancer	271	27	20
HIV/AIDS	5,709	475	101
Total	58,306	2,273	602

Source: Journal of the American Medical Association

MERCURY NEWS



Quality Measures	Percentage for ARMENIAN NURSING & REHABILITATION CENTER	Average in Massachusetts	National Average
Percent of Residents Whose			
Need for Help With Daily			
Activities Has Increased	14%	16%	16%
Percent of Residents Who			
Have Moderate to Severe Pain	1%	4%	6%
Percent of High-Risk			
Residents Who Have			
Pressure Sores	15%	13%	13%
Percent of Low-Risk			
Residents Who Have			
Pressure Sores	NOT AVAILABLE	3%	3%
Percent of Residents Who	00/	70/	70/
Were Physically Restrained	0%	7%	7%
Percent of Residents Who are			
More Depressed or Anxious	6%	15%	15%
Percent of Low-Risk			
Residents Who Lose Control			
of Their Bowels or Bladder	86%	57%	47%
Percent of Residents Who			
Have/Had a Catheter Inserted			
and Left in Their Bladder	1%	5%	6%
Percent of Residents Who			
Spend Most of Their Time in	004		407
Bed or in a Chair	3%	2%	4%
Percent of Residents Whose			
Ability to Move About in and Around Their Room Got			
Worse	16%	15%	12%
Percent of Residents With a	10 %	1370	1270
Urinary Tract Infection	1%	9%	9%
Percent of Residents Who	. , , ,		
Lose Too Much Weight	8%	8%	9%
Percent of Short-Stay			
Residents With Delirium	4%	3%	3%
Percent of Short-Stay			
Residents Who Had Moderate			
to Severe Pain	5%	21%	23%
Percent of Short-Stay			
Residents With Pressure			
<u>Sores</u>	15%	19%	19%

Nursing Staff Hours Per Resident Per Day					
	ARMENIAN NURSING & REHABILITATION CENTER	State Average in Massachusetts	National Average		
Number of Residents	81	97.7	89.6		
RN Hours per Resident per Day*	0.66	0.9	0.7		
LPN/LVN Hours per Resident per Day*	0.49	0.7	8.0		
CNA Hours per Resident per Day*	2.54	2.3	2.4		
Total Number of Nursing Staff Hours per Resident per Day*	3.69	3.9	3.9		

Staffing is a central component





- Staffing is a central component
 - Currently, staffing levels
 - Minimum recommended levels
 - Agency staff (?)
 - Turnover (?)
 - Payroll records





STAFFING:

- Staffing Issues
 - Turnover
 - Staffing levels
 - Agency staff





Turnover

- High levels of staff turnover in nursing homes. Subject of many studies.
- Assumed association of staff turnover with quality of care.
- Possible use as a quality indicator.



- Why Should Turnover <u>Cause</u> Poor Quality?:
 - Interfere with continuity of care.
 - Increase the number of inexperienced workers.
 - Weaken standards of care.
 - Cause psychological distress for some residents.
 - Expensive for the facility.
 - Increase the work load for remaining staff.

High levels of staff turnover in nursing homes?

> Nurse Aides = 71% Licensed Practical Nurses = 49% Registered Nurses = 50%

Source: Decker at al. (2003)

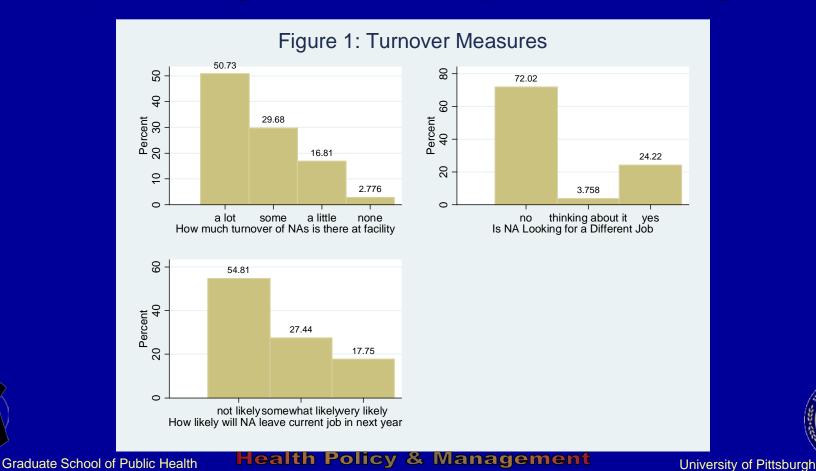




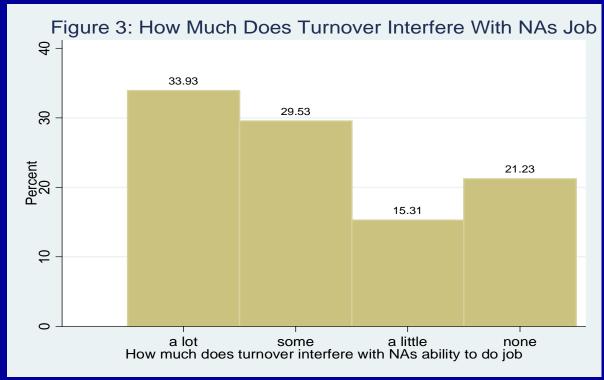
- GAO (2001): turnover among nurse aides working in nursing homes is:
 - 13-18% percent higher than the overall labor force
 - 20% higher than other service workers.
- 100,000 FTE vacancies at nursing homes

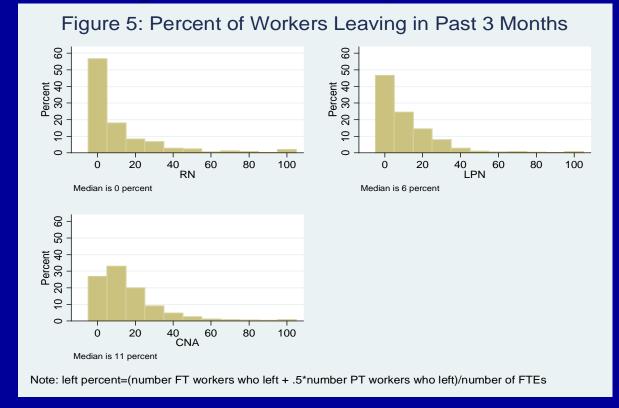




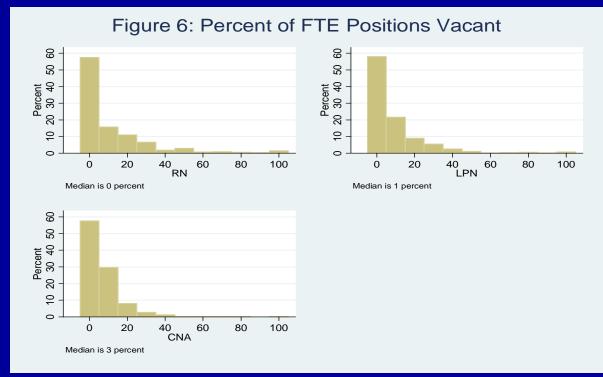








Supplement to 2004 National Nursing Home Survey (NNHS) 3,017 Nursing Assistants surveyed at 582 nursing homes



Turnover Information:

Regularly examine turnover (yes):	78%
Concerned by own turnover levels (yes):	91%
Implemented initiatives to improve turnover (yes):	32%
Data systems used to examine turnover (yes):	51%
Have estimated cost of turnover (yes):	29%

2,840 surveys returned from Nursing Home Administrators





Turnover Peculiarities:

- Economic Downturn
 - May Increase Turnover
- Better Qualified Caregivers
 - May Increase Turnover
- Union membership
 - May Increase Turnover (?)





State	Number of Facilities in Sample	NA Turnover ¹	LPN Turnover ¹	RN Turnover ¹	DON Turnover ²	NHA Turnover ²	NA Vacancy Rate	LPN Vacancy Rate ³	RN Vacançy Rate	
AL	119	82%	44%	50%	55%	47%	10%	10%	9%	
AR	124	121%	66%	51%	63%	55%	8%	11%	12%	
AZ	62	93%	72%	69%	67%	63%	7%	11%	13%	
CA	548	61%	42%	45%	51%	58%	10%	15%	14%	
CO	107	57%	40%	40%	44%	40%	8%	12%	11%	
CT	170	43%	33%	39%	35%	37%	9%	11%	14%	
DE	26	60%	27%	37%	21%	27%	12%	14%	15%	
FL	455	66%	57%	51%	53%	50%	12%	12%	12%	
GA	192	78%	55%	45%	56%	57%	10%	12%	14%	
IA	242	55%	32%	35%	32%	39%	7%	10%	9%	
ID	29	62%	47%	54%	37%	39%	8%	9%	10%	
IL	446	58%	40%	43%	42%	40%	8%	8%	10%	
IN	213	74%	57%	57%	50%	53%	11%	12%	15%	
KS	176	87%	59%	55%	46%	43%	10%	7%	9%	
KY	168	92%	53%	59%	53%	46%	8%	7%	8%	
LA	121	95%	43%	50%	28%	36%	10%	9%	8%	
MA	228	47%	45%	43%	36%	33%	9%	14%	15%	
MD	122	49%	38%	40%	29%	40%	12%	11%	12%	
ME	60	41%	30%	32%	23%	30%	9%	7%	8%	
MI	217	53%	32%	36%	26%	28%	11%	11%	10%	
MN	189	81%	26%	28%	21%	33%	10%	10%	9%	
MO	264	91%	53%	53%	52%	48%	9%	14%	13%	
MS	73	60%	56%	71%	55%	44%	12%	15%	14%	
MT	30	58%	44%	42%	37%	47%	13%	15%	16%	
NC	214	68%	50%	45%	33%	38%	9%	10%	10%	
ND	36	38%	22%	25%	24%	32%	10%	9%	6%	
NE	111	36%	24%	21%	25%	29%	11%	9%	8%	
NH	45	49%	34%	34%	28%	31%	12%	13%	14%	
NJ	200	49%	36%	42%	31%	35%	14%	15%	16%	
NM	34	72%	57%	62%	46%	45%	10%	17%	16%	
NV	12	66%	67%	66%	29%	32%	12%	13%	15%	
NY	351	43%	35%	41%	37%	46%	12%	11%	12%	
ОН	520	71%	41%	50%	40%	41%	12%	10%	13%	
OK	164	75%	59%	52%	57%	54%	13%	13%	10%	ERSITP
OR	82	61%	39%	46%	34%	39%	11%	10%	9%	NAK CA
PA	366	42%	35%	37%	30%	36%	13%	11%	12%	
RI	51	63%	36%	53%	23%	32%	10%	11%	13%	10000
sc	90	66%	46%	43%	31%	40%	10%	5%	9%	TSBURG!
SD	51	47%	24%	21%	36%	42%	9%	6%	7%	

Summary Results Turnover and Quality:

RNs

Increasing RNs decreases 7 Quality Measures of 19 (i.e., better quality)

LPNs

Increasing LPNs decreases 1 Quality Measure and increases 1 Quality Measure of 19

Nurse Aides

Increasing NAs decreases 6 Quality Measures of 19 (i.e., better quality)

(Analysis from 2,840 surveys returned from Nursing Home Administrators)



- Turnover IS associated with quality
- Associated (Volvo)
- BUT:
 - May also CAUSE poor quality (Storks)
 - Strongest affects for RNs and NAs
 - Has a "lagged" influence
 - But, not consistent for all quality indicators





Review of Staffing levels literature

- Studies that have specifically examined staffing quality relationships 41 of the 55 quality indicators were significant.
- Studies that have used staffing levels as controls in examining quality 35 of the 72 quality indicators were significant.

- Review of Staffing levels literature:
 - RN staffing quality relationship 21 of the 66 quality indicators were significant
 - LPN staffing quality relationship 12 of the 41 quality indicators were significant
 - NA staffing quality relationship 35 of the 52 quality indicators were significant

(Publication Bias!)





The mix of staffing has also been considered, particularly the ratio of RNs to practical nurses and to nursing assistants

The availability of Medical Directors and Nurse Practitioners

is a more recent focus

Percent Nursing Homes Exceeding CMS Preferred Total Direct Care Staffing Level (3.0+ HPRD)

78.7 - 96.5

66.8 - 78.6

56.8 - 66.7

32.3 - 56.7

22.4 - 32.2

Source: OSCAR 2004.

Percent Nursing Homes Exceeding Hartford Recommended Total Direct Care Staffing Level (4.44+ HPRD)

11.7 - 30.0

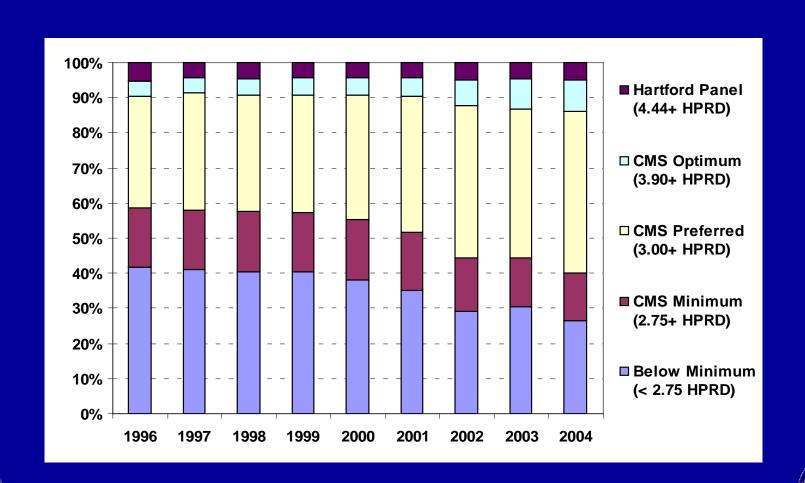
8.5 - 11.6

5.1 - 8.4

3.6 - 5.0

0.0 - 3.5

Source: OSCAR 2004.

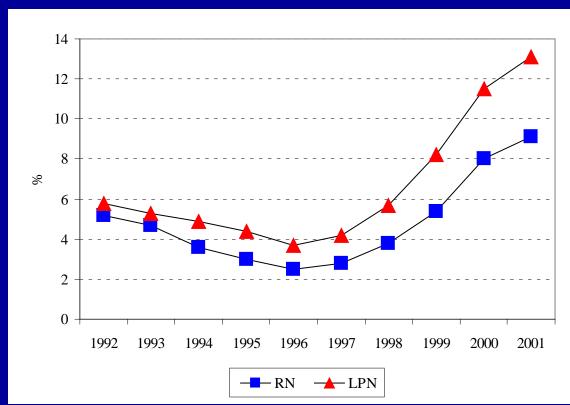


Agency Staff

- "have their working life organized by a private contractor, known generally as an agency, to carry out work within any number of facilities" (Manias et al. 2003, 457).
- Predominantly (for nursing homes) Nurse Aides, but also some LPNs and RNs.



Proportion of facilities using 5% or more contract RNs or LPNs, 1992-2001



- "increases the risk of patient neglect and medication error"
- "the agency nurse cannot do 100% of the work that a normal permanent staff member might do"



Agency Staffing Characteristics of Nursing Homes

Variable	Definition	Mean (or Percent)	Standard Deviation			
Any Use of Agency	Staff:					
RN agency	Used any agency RNs in 2006	28%				
LPN agency	Used any agency LPNs in 2006	19%				
NA agency	Used any agency NAs in 2006	42%				
Any agency use	Used any (RN, LPN, or NA) agency staff in 2006	59%				
Average Agency S	taffing (all facilities):					
	ncy RNs per 100 beds	1.2	(1.2)			
	ncy LPNs per 100 beds	1.4	(1.6)			
	ncy NAs per 100 beds	2.6	(4.2)			
Average Agency Staffing (only including facilities that use agency staff):						
RN agency FTE ager	ncy RNs per 100 beds	2.3	(1.1)			
LPN agency FTE ager	ncy LPNs per 100 beds	3.1	(1.5)			
NA agency FTE ager	ncy NAs per 100 beds	4.9	(3.8)			

^{*} Reported from 3,946 surveys returned by administrators



Comments Provided by Administrators Listing Advantages and Disadvantages of Using Agency Staff

Advantages

Dependable.

DON does not have to work to fill in.

Available when needed.

Replacement for sick staff.

There when you need someone in a pinch.

Keeps us in compliance.

Simple charge structure.

Can become a future employee.

Sometimes necessary to keep the doors open.

If you have the same agency, they learn the routine.

Meets licensure requirements.

Decreased workers comp liability.

Meeting state staffing levels.

No benefit calculations needed.

Can be used on short notice.

Reduces overtime.



^{*} Reported from 3,946 surveys returned by administrators

Comments Provided by Administrators Listing Advantages and Disadvantages of Using Agency Staff

Disadvantages

Inconsistent care.

Lack of team cohesion.

Poor attitude towards coworkers.

Held hostage by agency workers.

Lack of caring.

Cost.

Reliability.

Knowledge.

Customer friendliness.

Do not know the residents.

Poor efficiency.

Not knowledgeable about the facility.

Don't know staff.

Do not know the job.

Higher staff turnover.

Lack of personal investment.

Decrease morale of regular staff.

Expensive.

Behave as though they are unaccountable.

Lack of continuity of care.

Do not know the "little" things about residents.

Jump in without much training or orientation.

Do not have the buy in to our "mission."

Don't care.

Poor dedication.

Inconsistent staff.

Not well trained.

Safety concerns.

Don't know families.

Poor documentation.

Training for one-time use.

Don't know what to do.

Unreliable, often do not show up.

No teamwork.

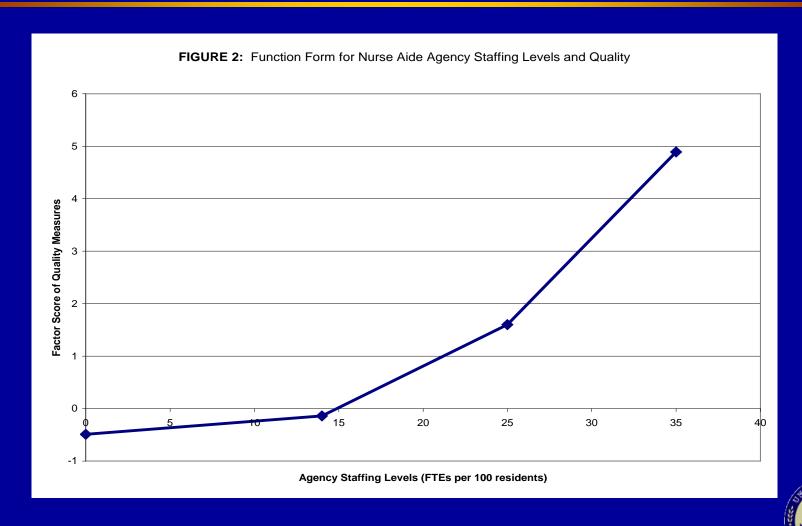
^{*} Reported from 3,946 surveys returned by administrators

Advantages and	Disadvantages of	Using Agency Staff

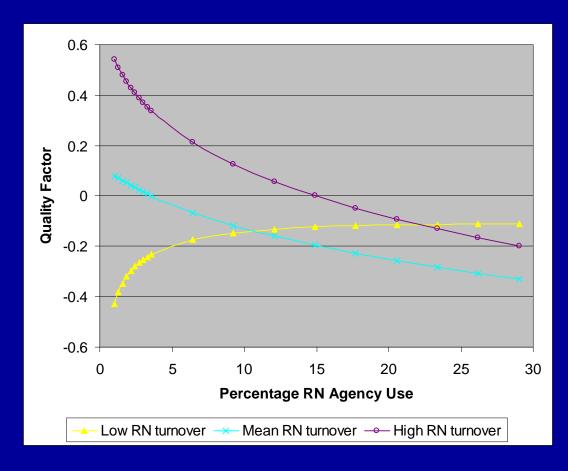
Advantages	Percent^ (N)	
Maintains compliance	26%	(1026)
Maintains staffing levels	12%	(474)
Available when needed	5%	(197)
Disadvantages		
Other Staff		
Increased supervision	38%	(1500)
Indifference	37%	(1461)
Decreased teamwork	26%	(1078)
Inconsistent work groups	25%	(987)
Increased workload	21%	(830)
Decreased morale	17%	(671)
Facility Operations		
Expense	42%	(1660)
Decreased commitment	26%	(1024)
Disrupted routines	23%	(909)
Lower productivity	12%	(475)
Administrative burden	10%	(396)
Professionalism	10%	(395)
Absenteeism	8%	(316)
Turnover	5%	(199)

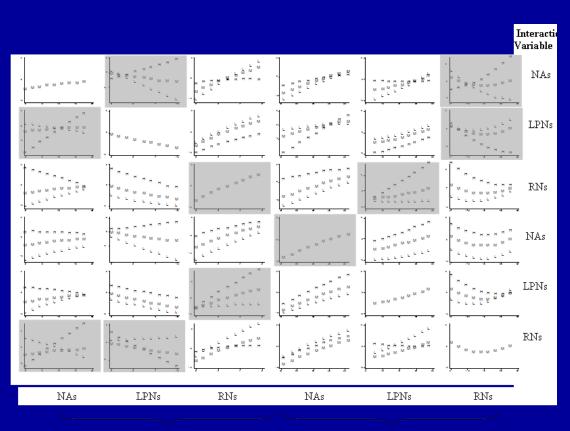


- Fifty-nine percent of facilities used some agency staff (i.e., RNs, LPNs, or NAs) in 2006.
 - Examining the results overall, it would appear that the "use" of agency staff is seen as problematic.
- May be problems/issues with "use" of agency staff, and not necessarily with staff themselves.



- "staffing is more complex than common measures might suggest...assessment of staffing levels requires more than counting the number of bodies reporting to work each shift"
- "staffing is more complex than simply a body count"
- But what is it?????





AGENCY STAFF

REGULAR STAFF



University of Pittsburgh

- Hierarchy of influence
 - Turnover
 - Staffing levels
 - Stability
 - Agency use
- Highest quality can only be achieved when nursing homes have both a high percent of staff with high stability and agency use is low

University of Pittsburgh

- Examining care processes more adequately is important, and may lead to broader policy debate over staffing issues rather than staffing levels in nursing homes.
 - For example, staffing level mandates may increase agency staff use

- Top Management
 - Nursing Home Administrator (NHA)
 - Director of Nursing (DON)
 - Medical Director?
- Performance
 - Staff turnover
 - Quality of care
 - Deficiency citations
 - Staying in business
- Attributes
 - Turnover (tenure)
 - Leadership
 - Education
 - Culture (e.g., Patient Safety Culture)
 - Dyad (NHA +DON)



Nursing Home

Directors of Nursing

	Administrators		2-1-00012 02	r (ur sing
	Mean	(SE)	Mean	(SE)
Tenure (in months) ^a	62.74	(2.34)	40.94	(1.65)
Administrator education ^a				
High school or associate degree	17.29	(1.10)	-	-
Baccalaureate degree	50.49	(1.52)	-	-
Master's or higher degree	32.22	(1.43)	-	-
Director of nursing education ^a				
Diploma or associate degree	-	-	57.08	(1.50)
Baccalaureate or higher degree	-	-	42.92	(1.50)
Age (in years) ^b	54	(8)	51	(9)
Race (% Caucasian) ^b	67	-	73	-
Gender (% Male) ^b	69	-	15	-
Member of professional society ^b	83	-	96	-

^aSource = National Nursing Home Survey [NNHS] (N=1,093)



^bSource = Primary data (N= 3,211)

	Nursing Home	Directors of
Activity	Administrators	Nursing
External regulation and accreditation	17%	12%
Organizational mission and culture	4%	2%
Human resources development	2%	<1%
New product development	<1%	<1%
New market development	<1%	<1%
Acquisitions (new)	4%	3%
Acquisitions (current vendors)	8%	6%
Organizational design	<1%	<1%
Wage and salary administration	7%	5%
Capital investment strategy	1%	<1%
Financial goals	5%	3%
Marketing plans	1%	<1%
Resident care policies and practices	8%	16%
Problem identification	2%	1%
Problem management		
With residents	6%	11%
With family	9%	12%
With staff	12%	16%
Conflict management practices	1%	<1%
Quality assurance practices and policies	4%	6%
Hiring decisions	4%	6%
Staffing decisions	2%	12%
Legal developments	1%	<1%
Other	3%	4%
Source = Primary data (N= 3,211) Note, percent of activities does not sum to 100% due to rounding error		

- How Important Are You? (Study 1): ADMINISTRATIVE DEFICIENCY CITATIONS AND QUALITY OF CARE IN NURSING HOMES
- Castle & Longest (2007).
- Association between deficiency citations for administration (indicating poor administration practices) and quality of care.
- Data used came from the 1996 through 2004 Online Survey, Certification And Recording (OSCAR) data, representing approximately 17,000 facilities per year.

Examples of Reasons Cited by Surveyors for Using Deficiencies for Administration^

Administrator not licensed
Inadequate qualifications of administrator
Improper administrator staffing
Insufficient provision of adequate staff

^ = Listed as F-tag number 0490



- Facility quality is associated with administration deficiency citations.
- Significance, "quality" of administration can influence performance.



- How Important Are You? (Study 2):
 EFFECT OF ADMINISTRATIVE RESOURCES ON CARE IN NURSING HOMES
- Facility quality is associated with intensity of administration.
- Significance, "hours of available time" of administration can influence performance.



- How Important Are You? (Study 3): THE EFFECTS OF TOP MANAGEMENT PROFESSIONAL DEVELOPMENT ON ADMINISTRATOR TURNOVER
- Castle & Shugarman (2005)
- Examines characteristics associated with professional development of the top management team and administrator turnover.
- Primary data from 406 nursing homes.
- Professional development lowers turnover rate (assumes lower top management turnover is important).

University of Pittsburgh

- How Important Are You? (Study 4): ADMINISTRATOR TURNOVER AND QUALITY OF CARE IN NURSING HOMES Study
- Administrators, turnover rate of 43% per year.
- Directors of Nursing, turnover rate of 39% per year.
- In most facilities one member of top management leaves every year.
- Some facilities had 6 NHAs in one year.

 administrator turnover is associated with a higher than average proportion of residents who were catheterized, had pressure ulcers, and were given psychoactive drugs and with a higher than average number of quality-ofcare deficiencies.



- How Important Are You? (Study 5): TURNOVER BEGETS TURNOVER
- Castle (2005).
- Association between turnover of nursing home administrators and staff turnover.
- 419 nursing facilities and the 1999 On-line Survey, Certification, and Reporting System (OSCAR)
- 10% increase in top management turnover
 - 21% increased turnover of Nurse Aides
 - 30% increased LPN and RN turnover

- Why Should Top Management Turnover be Associated with Quality?:
 - Staffing decisions.
 - Budget decisions.
 - Learning the organization.
 - •Quality improvement initiatives.
 - Spillover to other staff.



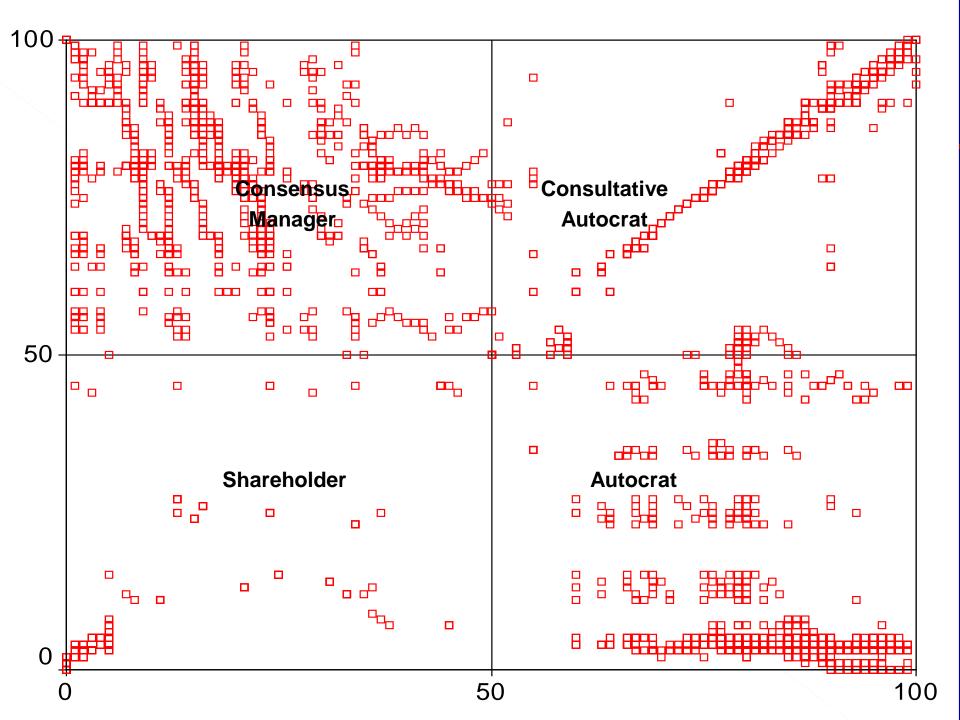


TOP MANAGEMENT LEADERSHIP:

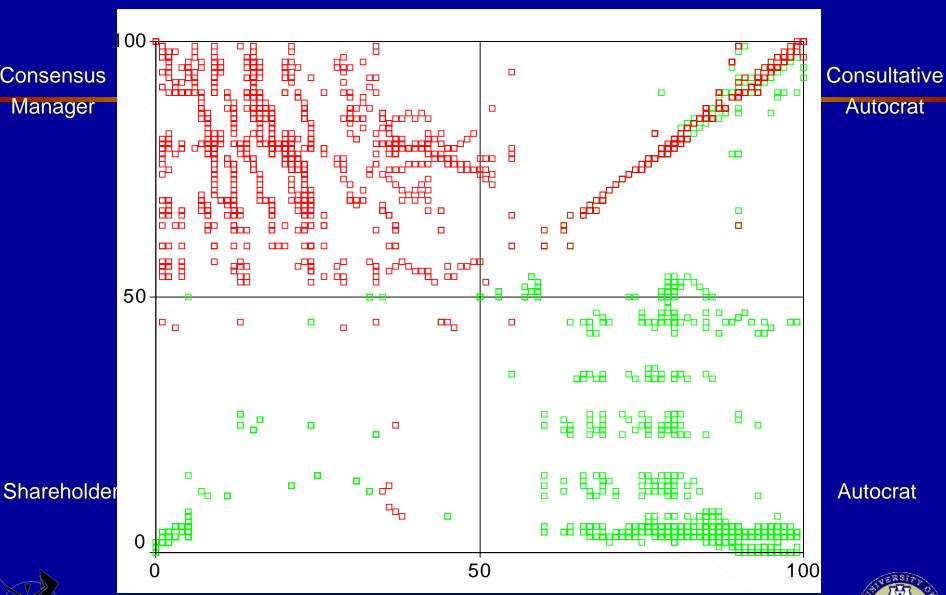
LEADERSHIP STYLES OF NURSING HOME ADMINISTRATORS AND THEIR ASSOCIATION WITH STAFF TURNOVER

- Donoghue & Castle (2009).
- Association between leadership style of nursing home administrators and staff turnover.
- Primary data from a survey of 2,900 Nursing Home Administrators conducted in 2005 and OSCAR.

- "Consensus Manager." A consensus manager allows an entire work group to offer input before making a decision.
- "Consultative Autocrat," seeks input but ultimately makes all decisions on his or her own.
- "Shareholder Manager." These leaders allow their work groups to operate so independently that they fail to communicate with them at all.
- "Autocrat" makes decisions on his or her own and does not seek any input or encourage any participation from the group.



Consensus Manager



Autocrat

Autocrat

Low NA Turnover

High NA Turnover

Health Policy & Management

University of Pittsburgh

- LEADERSHIP STYLES OF NURSING HOME ADMINISTRATORS AND THEIR ASSOCIATION WITH STAFF TURNOVER
- The Consensus Manger style is associated with the lowest level of turnover compared to Shareholder Managers (the reference group) for registered nurses, licensed practical nurses and nurse aides.
- For registered nurses and licensed practical nurses, the Consultative Autocrat style shows the second lowest turnover rates, and the Autocrat style ranks third.
- The Shareholder Manager style is associated with the highest level of turnover for all three nurse types.



- JOB SATISFACTION OF NURSING HOME ADMINISTRATORS AND TURNOVER
- Survey of nursing home administrators.
- Examine:
 - Levels of job satisfaction
 - (defined as "the favorableness or unfavorableness with which employees view their work)
 - Whether job satisfaction is associated with intent-toleave
 - Whether job satisfaction is associated with turnover after one year

- Important:
 - May help reduce turnover (improve quality of care)
 - Improve quality of life for NHAs
 - Significant for attracting new NHAs (applicant attraction theories)



- Generally high intent-to-turnover scores
 - Perpetual orientation towards looking for the next position
- Work skills
 - Rated highly
 - Maybe professional training (ACHCA/ACHE) important influence





- Most satisfied with rewards, work skills, and work load
- Least satisfied with work demands and coworkers
- Turnover rate high (39% per year)



CONSEQUENCES

Closure

- Subject of very few studies.
 - Downsizing
- Possible access issues.
- Possible resident health issues.
- Potential policy significance.



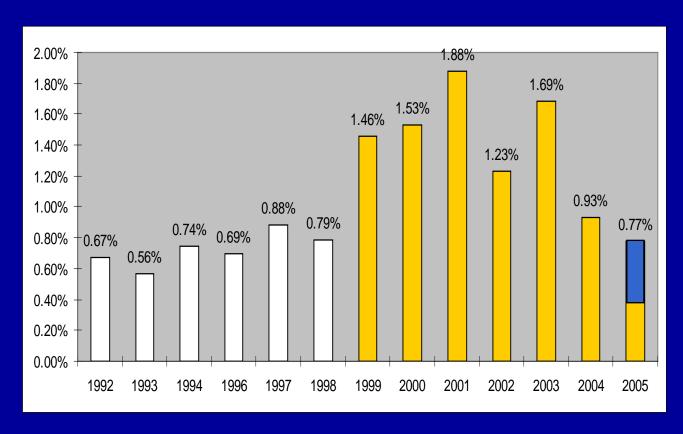
CONSEQUENCES:

- Subject of very few studies.
 - Downsizing
- Potential sources of systematic risk.
- Possible access issues.
- Possible resident health issues.
- Potential policy significance.

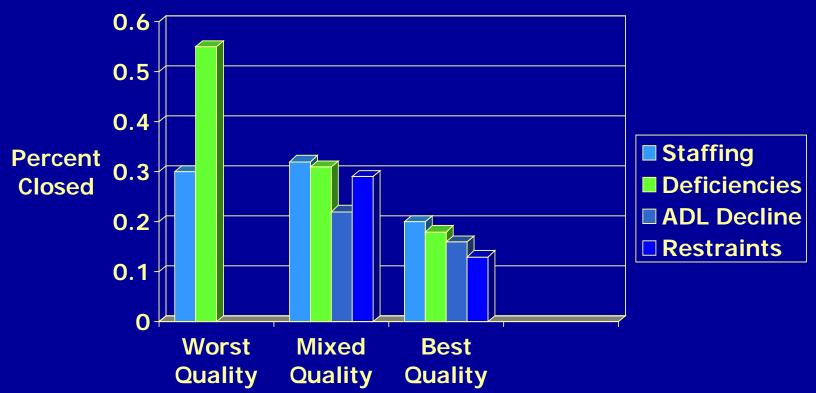




CONSEQUENCES



Quality Predicting Nursing Home Closure w/in 2 years



CONSEQUENCES:

- Sources of systematic risk
 - Census
 - Quality
 - Staffing levels
 - Leadership





- NATIONAL EVALUATION OF THE DEMONSTRATION TO IMPROVE THE DIRECT SERVICE COMMUNITY WORKFORCE
 - Demonstrations were intended to improve recruitment and retention of direct service workers
 - Five were given in 2003, Five in 2004
 - Grantees implemented various methods for accomplishing goals (details on next slide)





Initiatives	AR	DE	IN	KY	ME	NC	NM	VA	VOA	WA
Health Care Coverage										
DSW Training										
Supervisor and Consumer Training	•								•	
Realistic Job Preview										
Peer Mentorship										
Merit-based or Longevity Recognition				•		•				
Worker Registry										
Marketing Campaign										
Targeted Recruitment Strategy	•									(°/

Turnover and Separation Costs

		лпа	Jepa	n atro		0313	
	Partic	cipants			Comp	arison	
	Exit	Admin	1		Exit	Admin	

Separ-

ation

\$322

\$20

\$150

\$86

\$143

\$172

\$149

Inter-

view

\$30

\$130

\$12

\$50

\$200

\$86

\$53

Total

\$1,825

\$1,800

\$612

\$799

\$1,097

\$1,108

State

Alabama

Arkansas

Delaware

Kentucky

N Carolina

Oklahoma

Virginia

New Mexico

Washington

Averages

Responses

States

Indiana

Maine

Over-

time

\$1.060

\$330

\$350

\$300

\$644

\$620

Total

\$1,133

\$113

\$463

\$2,256

\$300

\$1

\$800

\$709

\$1,122

\$819

Inter-

view

\$35

\$50

\$31

\$47

\$35

\$56

\$274

\$56

\$43

\$91

\$83

Separ-

ation

\$25

\$58

\$88

\$338

\$59

\$417

\$354

\$78

\$35

\$222

\$164

Over-

time

\$30

\$350

\$1.803

\$450

\$1,275

\$133

\$2,334

\$75

\$995

\$846

- Full-time status is a barrier to getting coverage
- Health care coverage is complicated
- Resistance among Supervisory Staff
 - Unlikely to Improve Retention
 - Initiatives take time
 - Don't overwhelm workforce with options
 - Consider the heterogeneity among worker sample





Per Worker Cost Estimate by Initiative

State	Health	DSW Training	Supv/Cons Training	Job Preview	Mentor	Recognition	Registry	Marketing	Targeted Recruiting	Other Treatment
Alabama		\$902								
Arkansas		\$1,275	*				\$231		\$1,275	
Delaware		*	\$17	\$131	\$72	\$37		\$134	*	
Indiana	\$2,682	\$1,702			\$872	\$243		*		\$4,601
Kentucky		*		\$526	\$394	\$537				*
Maine	*									*
N Carolina	\$2,585	\$16				\$145				*
New Mexico	\$2,997									
Oklahoma			\$955							
Virginia	**	\$2,404	*					*	\$3,235	
Washington	\$133	\$781	\$19	\$84	\$27		\$272	\$84		(M. 11)

- Perfecting Patient Care
- Integrating principles of process redesign in nursing homes
 - NOT how to "perfect care."
- HOW
 - Toyota Production System
 - AKA. Perfecting Patient Care
- Process redesign methodology



- Perfecting Patient Care
- Rule 1: Activities
 - All work shall be highly specified as to content, sequence, timing, and outcome.
- Rule 2: Connections
 - Every customer-supplier connection must be direct, and there must be an unambiguous yes-or-no way to send requests and receive responses.
- Rule 3: Pathway
 - The pathway for every product and service must be simple and direct.
- Rule 4: Improvement
 - Any improvement must be made in accordance with the scientific method, under the guidance of a teacher, as close to the work as possible in the organization.

- Perfecting Patient Care
- Cannot yet point to this nursing home as the "Toyota of healthcare," problems still remain at this test site.
- Gone from 7 deficiency citations to 1.
- Nevertheless, PPC shows great promise as a tool to improve care.
- Need to further develop a "business case" for utilization.



- Perfecting Patient Care
- Bigger Picture
 - Eliminate Waste
- PPC helped with process redesign
 - eliminated linen shortages
 - decreased by half the resident fall rate
- Staff turnover decreased by 1/2
- Satisfaction surveys
 - Substantial improvements
 - Many related to areas of PPC activities
 - [similar results now with 4 years of data]



- Culture Change (?)
- Disney Model (?)

