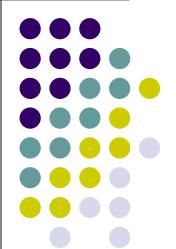
The Impact of the Nursing Shortage on the Feasibility of Requiring Minimum Nurse-to-Patient Ratios

Jean Ann Seago, Ph.D., R.N.

University of California, San Francisco March 30, 2005







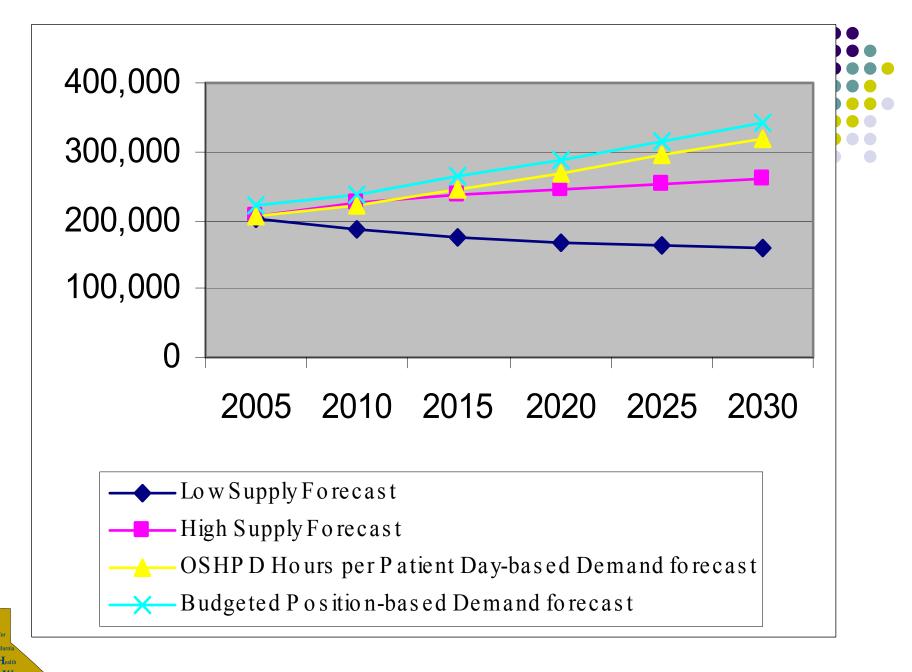


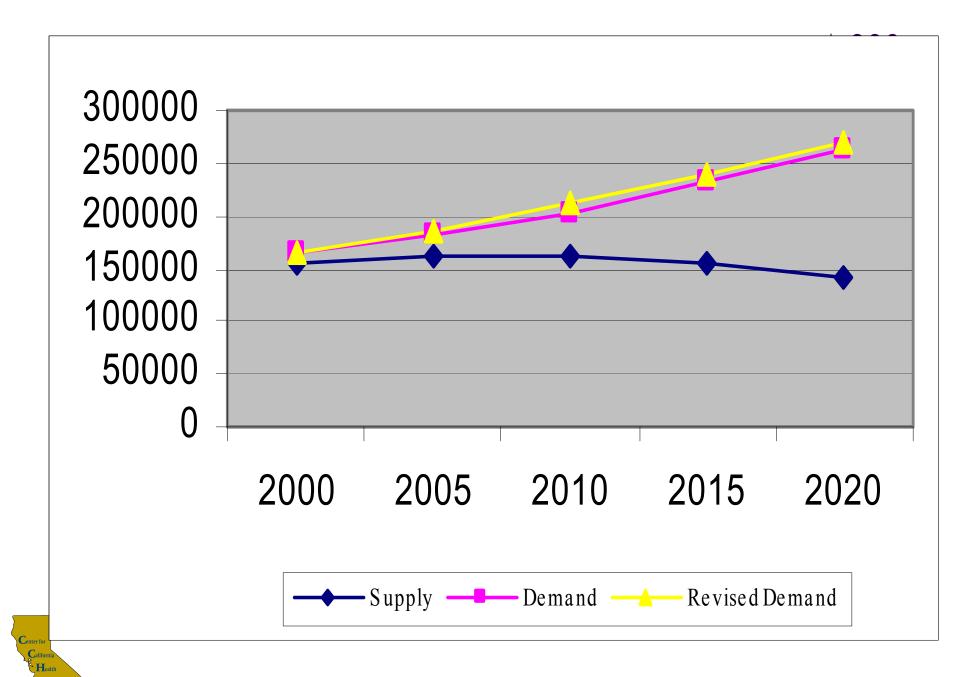
- Department of Health Services established minimum licensed-nurse-to-patient ratios for each type of hospital unit
- Unlicensed personnel are prohibited from performing certain tasks
- Regulations were implemented initially January 2004
- Scheduled to further tightening January 2005but held by governor
- Then March 2005, court ruled that they are to be enacted immediately

How Bad is the Shortage in California?



- RN to Pop-49th in US
 - Between 70,000 and 120,000 new nurses are needed to meet demand in 2020
- Hospital vacancy rates-double digit
- Constrained educational capacity
- Poor hospital work environment
 - Growing numbers of licensed nurses are thought to be working outside nursing
- Shortened LOS-work "speed up"
- Shortage of bedside nurses & nursing faculty





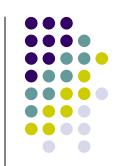
The California Workforce Initiative Variation in medical-surgical nurse staffing



	25 th percentile	50 th percentile	75 th percentile	Maximum
Number of med-surg units in hospital	1	2	3	30
Patient-to-RN ratio, day shift	5	6	7	12
Patient-to-RN ratio, night shift	6	8	9	26
Hours per patient day	6.7	7.6	8.4	27.7
RN Hours per patient day	3.5	4.2	5.2	24

Source: CWI Survey, 2000. Data are for medical-surgical units of 111 California hospitals.

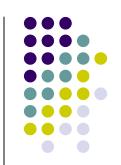
California OSHPD Variation in hours per patient day



Unit	# Hosp's	25 th Percentile	Median	75 th Percentile
Med-Surg ICU	308	13.02	14.82	17.19
Coronary ICU	94	11.29	13.97	16.21
Pediatric ICU	30	13.84	16.82	21.11
NICU	148	8.57	11.48	13.13
Med-Surg Acute	342	3.35	4.13	5.10
Obstetrics	246	3.69	5.04	7.07
Newborn Nursery	254	2.38	3.50	5.64
Sub-Acute Care	38	1.30	1.63	2.76

Source: OSHPD, 1999-2000

Share of hospitals not in compliance with DHS proposal



	DHS survey data		OSHPD data	
	Initial ratios	Later ratios	Initial ratios	Later ratios
Med-Surg	~20%	~50%	15%	36%
Pediatric	~40%	~40%	23%	23%
Obstetrics	25%	25%	29%	29%
L&D	5%	5%	15%	15%

Source: OSHPD; Kravitz, et al.

Estimated statewide FTE shortage from DHS survey data



	Initial ratios	Later ratios
Total	4,880	7,230
Med-Surg	1,030	2,460
Pediatric	490	490
Obstetrics	520	520
L&D	20	20

Source: Kravitz, Sauve, et al.

The Haves and the Have-Nots



- Money for RN salaries after the long dry 90s
- Future thinkers versus the head-in-the-sand group
- Public poor versus Private wealthy





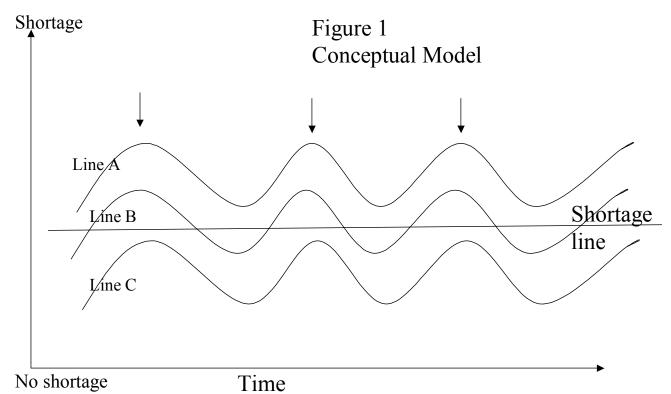


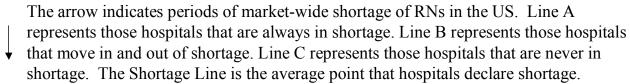
- Preponderance of research finds that more nurses are associated with better patient outcomes
- Causal link has not been demonstrated
- There is no "right" ratio



Who will never have the right ratio?













Persistent shortage (1990 & 1992)

- Deep South & West
- High Medicare & Medicaid populations.
- High county % of nonwhite population.
- Using team/functional instead of primary/total patient care as method of nursing care delivery.

Intermittent Shortage (1990)

- Deep South & Midwest
- Higher case mix index
- High county % of nonwhite population.
- Using team/functional instead of primary/total patient care as method of nursing care delivery.

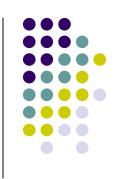
Is the nursing shortage improving?



- Recently, there has been an increase in RNs in the US
- Buerhaus, 2004 the increase in nurses is primarily from RNs who have
 - Came out of retirement
 - Immigrants



What if hospitals cannot find the staff needed to meet the ratios?



- The nursing shortage in California will persist in the long term without greater supply
- Will hospitals turn away patients?
 - Will hospitals close units?
 - Will hospitals close entirely?
- Will hospitals have to meet the ratios every minute of every day?





- Where is the enforcement of the legislation?
- No penalty
- DHS has suffered reductions in staff







- Cycles of shortage/excess are probably normal.
- Nursing markets are local, not national.
- Intermittent shortages will self-correct as local wages increase.
- Subsidized educational programs depress the wage rate.



What to do...



- Allow the market to correct itself.
- Link education to licensure... recognition that all nurses are not the same
- Eradicate salary-fixing practices of employers.
- Change "on-the-job" behaviors of physicians and hospital executives that drive nurses from the direct care hospital workforce.



But...



- The ratios cannot be sustained in light of the shortage
- Creative care delivery methods could be tried—but any legislated solution will likely not allow those methods



• Acknowledgements & Source Serve Bank of Boston

- Friss, L. (1994). Nursing studies laid end to end form a circle, Journal of Health Politics, Policy and Law, 19(3), 597-631.
- Yett, D. E. (1975). An Economic Analysis of the Nurse Shortage. Toronto: D. C. Heath and Company.
- Spetz, J., Seago, J. A., Coffman, J., Rosenoff, E., & O'Neil, E. (2000). Minimum Nurse Staffing Ratios in California Acute Care Hospitals. San Francisco, CA: California Healthcare Foundation.
- Seago, J. A., Ash, M., Grumbach, K., Coffman, J., & Spetz, J. (2001). Hospital registered nurse shortage: Environmental, patient and institutional predictors. HSR: Health Service Research.
- UC Davis Center for Health Services Research in Primary Care, & Research, U. D. C. f. N. (2002). Hospital Nursing Staff Ratios and Quality of Care: Final Report on Evidence, Administrative Data, an Expert Panel Process, and a Hospital Staffing Survey. Sacramento, CA: California Department of Health Services.
- Buerhaus, P. I., Staiger, D. O., & Auerbach, D. I. (2004). Trends: New Signs Of A Strengthening U.S. Nurse Labor Market? Health Affairs, 10.1377/hlthaff.w4.526(Web Exclusives).
 - Spetz, J. & Dyer, W. Projections based on BrHP 2000 Sample Survey & CA BRN 2004 Sample Survey