Symposium:

Using Nurse Staffing and Scheduling "Big Data" to Improve the Quality of Nursing Worklife

Beth A. Brooks, Ph.D., R.N., FACHE Paul T. Skiem, MBA, LCS



Learning Objectives

- Report the quality of nursing worklife (QNWL) in hospitals in select countries.
- Describe how human resources department can collaborate with nurse leaders to select evidencebased strategies to improve nursing worklife.
- Explain how labor optimization can be used for nurse staffing to improve the QNWL.

Overview and Agenda

- Define Quality of Nursing Worklife (QNWL)
 - History, Theory and Conceptual Framework
 - Depict countries using the survey
 - Survey results from select countries
- Selecting Evidence-based Human Resources (HR) Strategies
 - Social sub-system
 - Identifying employee needs
 - Collaborating with nursing leadership
- Using Labor Optimization for Nurse Staffing
 - Technical sub-system
 - Logistics science and mathematical modeling
 - Optimize and implement new staffing model
- Questions and Conclusion

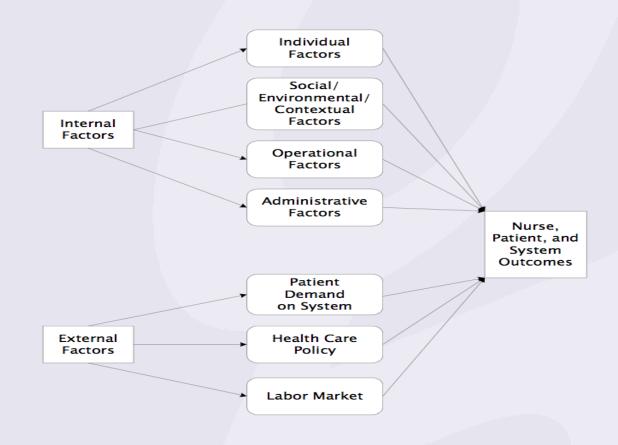
Why Quality of Nursing Worklife

- Job satisfaction is an unsatisfactory construct to assess either jobs themselves or employees' feelings about work. (Taylor & Felton, 1993)
- As much as 30% of job sat is a function of personality. (Arvey, Bouchard, Segal, & Abraham, 1989; Judge, 1993)
- Consistently demonstrated high satisfaction does not impact employee performance or patient Outcomes. (Goodell & Coeling, 1994; Iaffaldano & Muchinsky, 1985; Nadler & Lawler, 1983; Organ, 1988; Taylor & Felton, 1993)

Brief History of QNWL

- Socio-technical Systems Theory (STS)
- Early 1990s Canada discusses nurses' work concerns
- In 2000, Quality of Nursing Worklife Survey©
- Diagnostic survey to improve QNWL and meet business goals
- Worklife improvements collaborative approach between management and staff

Conceptual Framework



Note. From "Quality of Nursing Worklife Issues--A Unifying Framework," by L.O'Brien-Pallas and A. Baumann, 1992, Canadian Journal of Nursing Administration, 5(2), 13. Copyright 1992 by Canadian Journal of Nursing Administration. Reprinted with permission.

Sub-scales

Worklife/Homelife

• Interface between the life experiences of nurses in their place of work and in the home.

Work Design

• Composition of nursing work and describes the actual work nurses do.

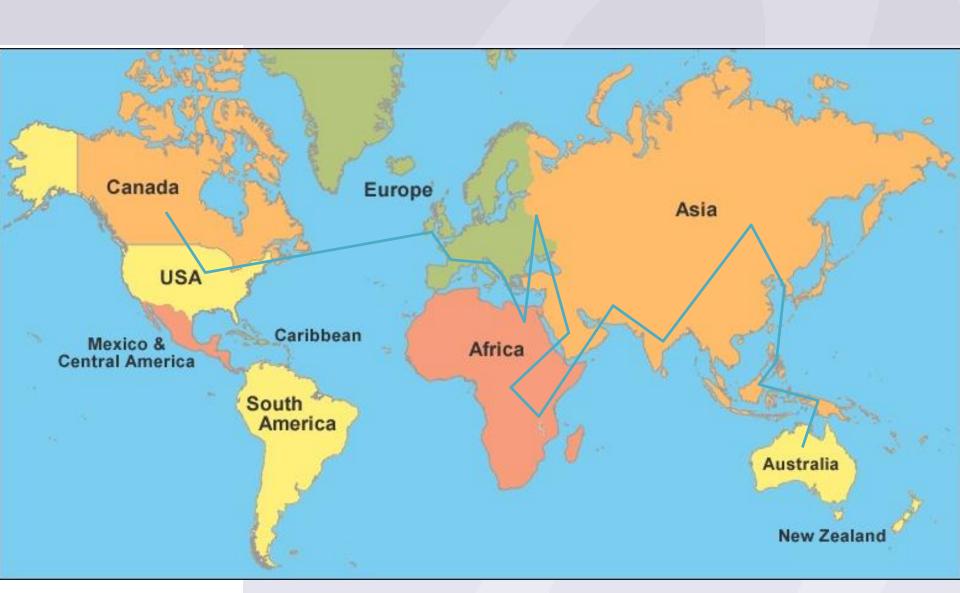
Work Context

• Practice settings, explores the impact of work environment on both nurse and patient systems.

Work World

• The effects of broad societal influences and changes on the practice of nursing.

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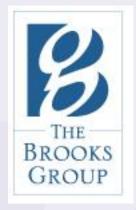
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Results

- Saudi Arabia
 - China
 - Iran
 - Jordan
- Malaysia
- Taiwan
- Thailand

Selecting Evidence-based Strategies to Improve QNWL

Paul T. Skiem, MBA, LCS



Socio-technical Systems Theory (STS)

- Two Sub-systems
 - Technical (Dr. Fitzpatrick)
 - Social
- Comprised of the people & relationships
- Reasons why employees choose organization
 - Attitudes toward
 - Expectations of it
 - Supervisory-subordinate relationships
 - Skill levels of employees
 - Nature of the subgroups

STS Theory: Social Sub-system

- Social sub-system has to meet a number of interrelated organizational challenges
 - Attain organization goals
 - Integrate the activities
 - Recruit, socialize and retain employees
- QNWL Survey can "diagnose" areas for improvement

Identifying Employee Needs

- Work World
 - Labor Supply & Demand
 - Competitive Compensation, Total Comp
- Worklife/Homelife
 - •Work-life balance
- Work Context
 - Learning & Development
 - Improving Communication
- Work Design

HR Collaboration with Nursing Leaders

- Work World
 - Competitive Compensation
 - Total Compensation
 - Workplace safety
- Worklife/Homelife
 - Day care
 - Redesign of PTO program
 - Health & wellness programs

HR Collaboration with Nursing Leaders

- Work Context
 - Improving communication
 - Conflict resolution
 - Inter-professional team "issues"
 - Professional development
- Work Design
 - Technical sub-system (Dr. Fitzpatrick)

Conclusion

Questions

BethBrooks@thebrooksgroupllc.net

PaulSkiem@thebrooksgroupllc.net