

## The Nursing Practice Environment and the Nurses and Patients Outcomes - Magnet Hospitals to Primary Health Care

Ana Maria Alves Póvoa Callado<sup>1\*</sup> and Pedro Ricardo Martins Bernardes Lucas<sup>2</sup>

<sup>1</sup>Head Nurse on Health Centers Amadora, Lisbon and Assistant Professor on School of Nursing of Lisbon, Portugal

<sup>2</sup>Professor on School of Nursing of Lisbon, Portugal

**\*Corresponding Author:** Ana Maria Alves Póvoa Callado, Health Centers Amadora, Lisbon; Community Department of the Lisbon School of Nursing, Lisbon, Portugal.

**Received:** April 18, 2022; **Published:** August 29, 2022

### Abstract

Studies carried out in recent years demonstrate the association between factors related to the context of clinical practice and the results for nurses and customers. Favorable nursing practice environments are essential for professional satisfaction for burnout and nurses turnover, patient safety and nursing care, while taking a key role in the financial viability of health organizations. The work environment can significantly influence nurses' attitudes, his career choices, and the results obtained by patients and by them. In this review we propose to analyze the influence of the nursing practice environment for nurses and customers outcomes and analyzing the importance of the nursing practice environment in the context of primary health care.

**Keywords:** Nursing Practice Environment; Turnover; Burnout; Quality of Nursing Care; Nurse Management; Primary Health Care

### Introduction

The nursing practice environment is defined as a set of characteristics that favor or constrain the professional practice of nurses [1,2].

This concept gained importance in the 70s, in hospitals of United States of America where there was a high scarcity of nurses and increased turnover of nursing professionals. Given the consequences of the lack of these professionals American Nurses Association carried out studies in the organizations that were able to attract and retain nurses, designated Magnet hospitals [1]. These organizations incorporated certain forces or components that raised greater involvement, professional satisfaction and lower turnover rates, greater customer satisfaction and better health results. They also obtained a greater financial return for the health organization [3]. In them, there was a transformational leadership, structural empowerment, an exemplary professional practice, incorporating new knowledge, innovation and improvements and empirical results [1,3]. In the 90s the recognition of these features has launched the concept in a new phase, trying to relate it to quality of care and customers outcomes. Therefore, a credit program for obtaining Magnet status considered the highest distinction that an organization may receive in the scope of the excellence of nursing care in the USA.

Magnet distinction is therefore attributed to health organizations with a high level of nursing care quality, as well as distinguishes organizations with a healthy nursing practice environment and positive outcomes for nurses and patients [4]. Many organizations have understood that the model to improve nurses' work environments, which appears from the Magnet Recognized program, is a useful guide

---

**Citation:** Ana Maria Alves Póvoa Callado and Pedro Ricardo Martins Bernardes Lucas. "The Nursing Practice Environment and the Nurses and Patients Outcomes - Magnet Hospitals to Primary Health Care". *EC Nursing and Healthcare* 4.9 (2022): 120-125.

to proceeding with the challenges of the organizational culture change, based on values, attitudes and beliefs about professional practice and processes through which professional practice is supported in the workplace [3].

Lake [1] identified the five aspects that characterize positive nursing practice environment, being the involvement of nurses in decision-making; the nursing care organization (time to meet the needs of the patients the support and support by the nurses heads; the adequacy of the teams (taking into account the professional skills and equilibrated work schedules) and the resources; and the efficient relationships between physicians and nurses [5-8]. Positive nursing practice environment was then defined as a safe, capacitating and satisfactory workplace for nurses and is considered vital importance for prevention of medical errors, keep the stable teams and retain the best nurses [4].

The Institute of Medicine established the link between patient safety and the nurses' work environment, after publication of the To Err Is Human report in 99's [9]. This organization considered that positive nursing practice environments are essential for nurses' satisfaction and retention, for patient safety and the quality of nursing care provided, while taking a fundamental role in financial feasibility of health organizations [4].

When nursing practice environment is perceived as positive the outcomes found are suggestive of better quality and safety of care [3,5,9,10], lower mortality rates [3,5,10] and less complications [5] for patients, better overall performance [9,11] and increased productivity [11]. In this scenario, there is also a greater professional satisfaction of nurses [2,5-7,9-11], lower turnover intention [5,6,9-11] and increased stability of the nursing teams [6] by decreased turnover [10,11] and lower absenteeism fee [11].

On the other hand, when is perceived as negative, outcomes are negative: low efficiency, professional dissatisfaction, turnover [2,12] and burnout [2,9,13] and for customers, verifying the increase in mortality and other complications [4,5,7,9], longer hospitalization [4,6], more drug's administration related errors [6,9,10], safety compromising [10] and lower patient satisfaction in accordance with incoming care [6].

In view of the evidence, we proposed to deepen the impact of the nursing practice environment for patients and nurses outcomes.

### Methods

We conducted a review through research at EBSCO HOST first through natural terms (Nursing Practice Environment, Turnover, Burn-out, Quality of Nursing Care, Nurse Management, Primary Health Care) and then through descriptors Medical Subject Healing (Mesh) indexed terms, and Booleans "And" and "OR". We have searched for bases Cumulative Index to Nursing and Allied Health Literature (Cinahl Complete), Medical Literature Analysis and Retrieval System Online (Medline Complete), Medicatina, Cochrane Database of Systematic Reviews and Scopus. We put as selection criteria to be articles on study theme with nurses, available in full text, written in English, Spanish or Portuguese.

### Results and Discussion

To facilitate the analysis of the found evidence we present the outcomes divided into subthemes, which we present below.

#### Influence of the nursing practice environment in the quality of nursing care

Several studies have shown that one or more unfavorable attributes in the nursing practice environment are associated with higher mortality rates due to the occurrence of errors, many of them are related to an unhealthy work environment, characterized by communication failures between health professionals, change resistance and lack of effective leadership [6].

Aiken, *et al.* [14] concluded in their studies that in the organizations with adequate nurses, the patients presented a less likelihood of dying at all levels of risk and the costs of the care they received were equal or lower in these organizations than in those who revealed inadequate nurses resources.

Appropriate nurses hospitals have had better results for patients with the same costs or costs smaller than hospitals with worse outcomes, considering that they admitted less 40% of patients in intensive care units and had a shortest time of hospitalization [14].

These results are concluded that associated costs to contracting more nurses are offset by the reduction of intensive treatments, lower time hospitalization, nosocomial infections 30% less [5,14], which translates into security and quality in care [4,7,10,15].

On the other hand the results show that by each additional patient attributed to a nurse increase 6 to 9% in readmissions by pneumonia, heart failure and acute myocardial infarction, increase 8% in readmissions by fracture from the lap of the femur, increase 3% in readmissions after general surgery and increase 11% in readmissions hospitalized children, unnecessarily increasing the cost of care.

It should also be noted that half of the nurses assume that they have not had time to complete high planning and hold anticipatory care to the client [14], decreasing the quality of nursing care. Evidence demonstrates that when nurses' assessment on the standards of professional nursing practice increases, the adequacy of the team and professional relations are evaluated as better [7], concluding that when nurses perceive that nursing care with quality, nursing teams are provided with skills elements and sufficient numbers [6]. These conclusions corroborate the results verified in the studies of Aiken, *et al* [14]. When they refer that in hospitals where nurses have been existed with necessary skills and in adequate number, the rate of pressure ulcers, fall lesions and urinary tract infections are smaller.

### **Influence of the nursing practice environment on turnover**

Turnover directly affects the care ability of the nursing team. While the change of organization can be seen as a professional development opportunity for nurses, turnover can become a problem for organizations if change is driven by unfavorable characteristics of the nursing practice environment [16]. The exit of experienced professionals leads to which nursing teams lose knowledge and competence [17]. Even replacing the element for another one the new element has to learn from experience in order to develop its skills and the clinical judgment that enables them to act towards complex situations and prioritize care [18]. This development process takes time and during this period the quality of nursing care can be compromised. Thus, in addition to the costs related to the selection and integration of the new elements, the team is reduced and loses now how which leads to the reduction of effectiveness and reduction of productivity [17].

### **Influence of nursing practice environment in Burnout**

The nurse's perception not to carry out all necessary care, caused by the high workload or in-wood teams, can give rise to high levels of burnout and dissatisfaction of nurses, also affecting the quality of health care [15].

Burnout is known to be influenced by the environment in which the professional exercises, being particularly related to inadequate organization of work, due to lack of autonomy in clinical practice and support by the heads [13,19], stress and accumulated tension caused by excessive workload, by needs to perform additional administrative tasks, to which the poor relationship with the medical team [20] is added. The evidence shows that when they exercise in unfavorable nursing practice environments nurses tend to present high emotional exhaustion, first phase of burnout [13,21]. In an attempt to overcome their negative consequences nurses can neglect their professional obligations, with negative repercussions on nursing care, in satisfaction of the patient on care received and still in their adherence to treatment. Despite stress and high risk of exhaustion, not all nurses develop Burnout [22]. About this the evidence reinforces that when support from the heads and greater autonomy in the holding of the care, the nurse can recover from the stressful situation, to recover the work capacity and increase its professional satisfaction [13,21,22].

### Influence of nursing practice environment in professional satisfaction

Professional satisfaction can be an important indicator of how nurses feel about their work as well as a predictor of the behavior at work [17]. It is a multidimensional construct where requirements professional autonomy, work relations and organizational conditions [2] are included. Evidence relates professional satisfaction with decrease absenteeism, with better organizational climate [17], increasing productivity and better performance at work [17,23]. It can strengthen the professional commitment of the professional with the organization [2]. On the other hand, dissatisfaction will cause less organizational commitment, greater absenteeism and increase turnover [17]. In order to promote greater satisfaction and improve productivity levels positively contributing to outcomes of organizations and for the quality of nursing care, we find a reference to several strategies such as appropriate nurse-patient ratios, invest in training, promote participation of nurses in decision-making and organizational policies [2].

### Nursing practice environment in primary health care

The positive nursing practice environment has been referred to as the most important influence on nurses' professional satisfaction in the context of primary health care [6,24]. Given the growing demand for nursing care and the greater complexity in the provision of primary health care, caused by high overall aging rate [6], either by the transfer for the community of patient monitoring with chronic disease - homes and schools - monitored by the primary health care teams [11], either by the reduced nurses rate to be exercised in this context [6], are needed motivated and committed professionals in compliance with organizational goals and to provide the necessary care, not compromising organizational performance [11]. In this context it is necessary existing a philosophy and definition of nursing care model, as a set of organizational values and beliefs where advanced nurse care is valued, a condition of a Magnet organizations [8]. However, this is a challenge given the focus on the doctor and the biomedical model. Evidence in primary health care highlights that appropriate labor relations between nurses and physicians [8,12] promote professional respect and the highest independence to make decisions, with improvement of care to the chronic patient. This greater autonomy in nurses allows them to incorporate advanced care practices, making them more efficient and qualitatively positive [8].

### Implications for nursing management

Evidence has shown that management practices can contribute to promoting a favorable work environment [6] and organizational changes that promote better working conditions [12] and better medical-nurse relationship. Support of the leadership were identified as the most important factors to improving care [8,11]. According to the authors, these characteristics combined with the development of nurses' competences and participation in decision-making, promote the incorporation of evidence-based clinical practices, which contribute to the improvement of quality and safety of care [8].

### Conclusion

The nursing practice environment has an influence on patients and nurses outcomes but also in the costs of health organizations.

When there is a positive nursing practice environment nurses can apply all their skills, exercise with professionalism, are empowered and provide high quality and safe nursing care, are valued and there is a recognition of the role of nurses in the patients outcomes, which leads to the highest productivity to the organization and better outcomes for all actors, nurses and patients.

Studies about this subject in primary health care is still limited even internationally but it is clear that also in this context is needed the existence of stable teams, empowered and valued, with high quality standards, with well-defined and targeted goals for teamwork.

In these economically difficult times health organizations should invest in managers nurses capable of promoting positive nursing practice environments, in order to retain the best professionals and keep them committed to provision of high quality care.

## Conflict of Interest

The authors don't have any conflict of interest.

## Bibliography

1. Lake ET. "Development of the practice environment scale of the nursing work index". *Research in Nursing and Health* 25.3 (2002): 176-188.
2. Chen J., et al. "Ambiente de prática de enfermagem e a satisfação dos enfermeiros em contexto hospitalar - uma revisão scoping". *Pensar Enfermagem* 23.2 (2019): 29-42.
3. Anderson VL., et al. "Impact of magnet hospital designation on nursing culture: an integrative review". *Contemporary Nurse* 54.4-5 (2018): 483-510.
4. Wei H., et al. "The state of the science of nurse work environments in the United States: A systematic review". *International Journal of Nursing Sciences* 5.3 (2018): 287-300.
5. Aiken LH., et al. "Patient safety, satisfaction, and quality of hospital care: cross sectional surveys of nurses and patients in 12 countries in Europe and the United States". *British Medical Journal* 344 (2012): e1717.
6. Moreno AP., et al. "Influence of socio-demographic, labour and professional factors on nursing perception concerning practice environment in Primary Health Care". *Atención Primaria* 45.9 (2013): 476-485.
7. Copanitsanou P., et al. "Effects of work environment on patient and nurse outcomes". *British Journal of Nursing* 26.3 (2017): 172-176.
8. Gea-Caballero V., et al. "Essential elements of professional nursing environment in Primary Care and their influence of the quality of care". *Enfermería Clínica* 28.1 (2018): 27-35.
9. Ulrich B., et al. "Critical Care Nurse Work Environments 2018: Findings and Implications". *Critical Care Nurse* 39.2 (2019): 67-84.
10. Poghosyan L., et al. "Optimizing full scope of practice for nurse practitioners in primary care: A proposed conceptual model". *Nursing Outlook* 64.2 (2016): 146-155.
11. Ayamolowo AJ., et al. "Job satisfaction and Work Environment of Primary Health Care Nurses in Ekiti State, Nigeria: an Exploratory Study". *International Journal of Caring Sciences* 6.3 (2013): 531-532.
12. Poghosyan L., et al. "Practice Environments and job satisfaction and turnover intentions of nurse practitioners: Implications for primary care workforce capacity". *Health Care Management Review* 42.2 (2017): 162-171.
13. Nogueira LS., et al. "Burnout and nursing work environment in public health institutions". *Revista Brasileira de Enfermagem* 71.2 (2018): 336-342.
14. Aiken LH., et al. "Hospital Nurse Staffing and Patient Outcomes". *Revista Médica Clínica Las Condes* 29.3 (2018): 322-327.
15. Liu K., et al. "The relationship between hospital work environment and nurse outcomes in Guangdong, China: a nurse questionnaire survey". *Journal of Clinical Nursing* 21.9-10 (2012): 1476-1485.
16. Galletta M., et al. "The Effect of Nurse-Physician Collaboration on Job Satisfaction, Team Commitment, and Turnover Intention in Nurses". *Research in Nursing and Health* 39.5 (2016): 375-385.
17. Hashish EA. "Relationship between ethical work climate and nurses' perception of organizational support, commitment, job satisfaction and turnover intent". *Nursing Ethics* 24.2 (2017): 151-166.

18. Tanner CA. "Thinking Like a Nurse: A research-based Model of Clinical Judgement in Nursing". *Journal of Nursing Education* 45.6 (2006): 204-2011.
19. Aronsson G., et al. "A systematic review including meta-analysis of work environment and burnout". *BMC Public Health* 17.1 (2017): 264.
20. Han SS., et al. "Effects of role stress on nurses' turnover intentions: The mediating effects of organizational commitment and burnout". *Japan Journal of Nursing Science* 12.4 (2015): 287-296.
21. Dall'Ora C., et al. "Burnout in nursing: a theoretical review". *Human Resources for Health* 18.1 (2020): 41.
22. Yu M and Lee H. "Impact of resilience and job involvement on turnover intention of new graduate nurses using structural equation modeling". *Japan Journal of Nursing Science* 15.4 (2018): 351-362.
23. Kim MH and Yi YJ. "Impact of leader-member-exchange and team-member-exchange on nurses' job satisfaction and turnover intention". *International Nursing Review* 66.2 (2019): 242-249.
24. Almalki MJ., et al. "The relationship between quality of work life and turnover intention of primary health care nurses in Saudi Arabia". *BMC Health Services Research* 12 (2012): 314.

**Volume 4 Issue 9 September 2022**

**© All rights reserved by Ana Maria Alves Póvoa Callado and  
Pedro Ricardo Martins Bernardes Lucas.**