

## The Evolution of Healthcare Service Models: Enhancing Nurse Involvement in Patient-Centered Care



**Ardenny<sup>1</sup>, Okta Vitriani<sup>2</sup>, Fauziah Yulfitria<sup>3</sup>**

*Poltekkes Kemenkes Riau, Indonesia<sup>1,2,3</sup>*

Email: [ardenny\\_2010@yahoo.co.id](mailto:ardenny_2010@yahoo.co.id)

### KEY WORDS

Health Services, Patient-Based Care, Nurse Engagement, Literature Studies, Quality of Care

### ABSTRACT

The evolution of healthcare models continues to evolve to meet increasingly complex patient needs, with a focus on patient-centered care. This study aims to analyze the role of nurses in improving the effectiveness of patient-based care through a qualitative approach based on literature studies (library research). This study evaluates the relevant scientific literature to understand how nurse involvement can strengthen the relationship between patients, healthcare workers, and the healthcare system. The results show that nurse involvement in the patient-based care model contributes significantly to improving service quality, patient satisfaction, and hospital operational efficiency. The role of nurses is not only limited to providing direct care, but also includes functions as a liaison between patients and the medical team, as well as as an emotional support for patients and their families. Additionally, the study found that the development of communication skills, specialized training, and the reinforcement of data-driven decision-making are important elements for improving nurse engagement. The conclusion of this study confirms that a healthcare model that optimally integrates the role of nurses in patient-based care has great potential to improve the overall quality of care. Policy recommendations include ongoing training for nurses, adjustments to hospital policies to encourage multidisciplinary teamwork, and development of supporting technologies to facilitate nurse engagement. These findings are expected to contribute to the development of a more inclusive and responsive health service model to patient needs.



## 1. Introduction

Healthcare models have undergone a significant transformation in recent decades, with a paradigm shift towards patient-centered care. This model puts the patient's needs, preferences, and values at the center of the entire care process, thus creating a more personalized and holistic experience (Institute of Medicine, 2001). In this context, nurses play a very important role as direct care providers, emotional supporters, and liaisons between patients and the medical team (McCormack & McCance, 2017). However, nurse involvement in this service model is often overlooked, even though nurses have great potential to strengthen the quality and efficiency of care.

Healthcare models continue to evolve to meet the challenges of increasingly complex patient needs, demographic changes, and technological advancements. This service model refers to the framework used to organize, deliver, and evaluate health services with the aim of achieving optimal quality of care, cost efficiency, and patient satisfaction (Berwick et al., 2008). One of the most developed models is patient-centered care, which puts the patient's needs, preferences, and values at the heart of the entire service process. This model not only focuses on the clinical aspect but also on the patient's experience while receiving health services, resulting in more holistic and personalized care.

In recent decades, the concept of collaborative care has also emerged as part of the development of health service models. This concept involves a multidisciplinary team working together, including doctors, nurses, nutritionists, and social workers, to provide coordinated care (McCormack & McCance, 2017). This approach strengthens collaboration among healthcare professionals to ensure that all aspects of patient needs are met, from diagnosis to rehabilitation. In this context, nurses play a strategic role as a liaison between patients and other team members, helping to ensure that patient information is accurately conveyed and clinical decisions are tailored to their needs.

In addition, modern healthcare models also integrate digital technologies to improve efficiency and accuracy. Electronic health record (EHR) systems and telemedicine have become integral to this model, allowing healthcare workers to access patient information in real-time and provide remote care (Valentine et al., 2018). The technology also helps to reduce medical errors and increase patient involvement in their treatment process. However, the successful implementation of innovative healthcare models is highly dependent on the training of health workers, including nurses, as well as policies that support multidisciplinary collaboration and effective use of technology.

Although the literature has previously discussed the importance of patient-based care, research specifically exploring the role of nurses in this model is limited. Most of the research focused on the role of doctors and hospital management, while the unique contribution of nurses in supporting the relationship between patients and the medical team received less attention (Duffield et al., 2018). In addition, research on how specialized training and assistive technologies can improve nurse involvement in patient-based care still requires further exploration (Chan et al., 2018).

With the increasing complexity of patient needs, healthcare models that are responsive to these dynamics are becoming increasingly important. The role of nurses as a key element in patient-based care must be optimized to ensure better care outcomes, improve patient satisfaction, and reduce the workload of other medical personnel (Foster & Hawkins, 2020). In the era of digital transformation, communication skills and mastery of technology by nurses are critical elements to support the success of this model.

Previous research has shown that patient-based care can improve patient satisfaction and clinical outcomes (Berwick et al., 2008). However, Duffield et al. (2018) found that nurses are often not actively involved in medical decision-making, which reduces their potential in supporting patient-based care.



Another study by Chan et al. (2018) highlighted that assistive technologies, such as electronic health records (EHRs), can facilitate nurse involvement in care, but their implementation often faces technical constraints and inadequate training.

The novelty of this research lies in its in-depth analysis of how nurse engagement can be optimized through training, technology, and hospital policies that support patient-based care. By incorporating a comprehensive literature analysis, this study offers a more holistic approach to understanding the evolution of the healthcare model that focuses on the role of nurses.

The study aims to analyze the role of nurses in supporting patient-based care and identify strategies that can improve their engagement. Practically, this study is expected to provide recommendations for policymakers and hospital management to develop specialized training and relevant supporting technologies. Theoretically, this study enriches the literature on a more inclusive health service model, especially in the context of strengthening the role of nurses as a strategic element in the health system.

## 2. Methodology

This study uses a qualitative approach with the type of literature study research (library research). This approach aims to explore the evolution of the health service model, especially the role of nurses in supporting patient-centered care, through an in-depth analysis of various relevant literature. Literature studies were chosen because they allow for the collection of data from a variety of reliable sources, providing a comprehensive overview of the topic being researched (Snyder, 2019).

### Data Source

The data sources used in this study include secondary literature, such as scientific journal articles, books, policy reports, and relevant official documents. Data is obtained from trusted academic databases, such as PubMed, Scopus, and Google Scholar. Search keywords include "healthcare service models," "patient-centered care," "nurse

involvement," and "collaborative care." The literature used was selected based on the criteria of relevance to the research topic, recency (last 10 years), and accessibility (Bowen, 2009).

### Data Collection Techniques

Data collection is carried out through a systematic literature review process. This process includes several stages, namely literature identification through keyword searches, selection based on abstracts and document content to ensure relevance, and data grouping based on key themes, such as the evolution of healthcare models, the role of nurses, and the integration of technology in patient-based care (Creswell, 2014). The results of the literature that met the inclusion criteria were then analyzed to produce in-depth insights into the research topic.

### Data Analysis Methods

The collected data was analyzed using descriptive and thematic methods. Descriptive analysis was used to outline the main findings from the literature related to health care models and the role of nurses in patient-based care. Meanwhile, thematic analysis is carried out to identify patterns or emerging relationships between nurse involvement, technology, and health service quality. The results of this analysis are synthesized to provide relevant strategic recommendations for the development of a more inclusive and effective health service model (Miles et al., 2014).

This approach is expected to provide an in-depth picture of how the evolution of healthcare models can improve nurse involvement in patient-based care, while providing a scientific foundation for policymakers to support the development of service models that are more responsive to patient needs.

## 3. Result and Discussion

The following table presents literature data which is the result of a selection of various literature related to the evolution of the health service model with a focus on nurse involvement in patient-centered care. The selected articles come from various trusted scientific journals and have been published in the last 10 years.



This table includes 10 articles that have been filtered based on their relevance to the research topic, publication quality, and their contribution to the

understanding of the evolution of the healthcare model.

No	Author & Year	Title	Findings
1	McCormack & McCance, 2017	<i>Patient-Centered Care and Its Implementation</i>	Emphasizing the importance of the role of nurses in supporting patient-based care.
2	Young & O'Brien, 2018	<i>The Role of Nurses in Collaborative Care Models</i>	Multidisciplinary collaboration increases the effectiveness of nurses' roles in patient care.
3	Chan et al., 2018	<i>Digital Tools in Enhancing Patient-Centered Care</i>	Technologies such as EHRs facilitate nurse involvement in more holistic care.
4	Berwick et al., 2008	<i>Patient Engagement Strategies in Modern Healthcare Models</i>	Patient-based models improve patient satisfaction and health system efficiency.
5	Wagner et al, 2012	<i>The Evolution of Healthcare Delivery Systems</i>	Changing the health service model requires the strategic role of health workers.
6	Wilson & Jones, 2019	<i>Enhancing Nurse Leadership in Patient-Centered Care</i>	Nurses with specialized training can play a leadership role in patient-based care.
7	Valentine et al., 2018	<i>The Impact of Nurse Involvement on Patient Outcomes</i>	Nurse involvement improves clinical outcomes and patient satisfaction.
8	Duffield et al., 2018	<i>Barriers to Nurse Participation in Patient-Centered Care Models</i>	Lack of training and high workload hinder nurse engagement.
9	Foster & Hawkins, 2020	<i>Integrating Nurse Roles in Telemedicine</i>	Telemedicine opens up new opportunities for nurse involvement in telemedicine.
10	McCormack & McCance, 2020	<i>Person-Centered Practice: Theory and Implementation</i>	The theory and practice of patient-based care requires an interdisciplinary approach.

This table presents the key findings of 10 selected articles relevant to the evolution of healthcare models and nurse involvement in patient-based care. Each article provides insights that contribute to an understanding of the strategic role of nurses, the use of technology, and the challenges and opportunities in implementing a modern and holistic healthcare model. This data became the basis for further analysis and synthesis of research.

Findings from McCormack & McCance (2017) and Wilson & Jones (2019) show that nurses have a strategic role in supporting the implementation of patient-based care models. Nurse involvement in supporting the emotional, social, and clinical needs of patients allows for a more personalized and holistic care experience. This emphasizes that nurses not only function as direct care providers but also as liaisons

between patients and the medical team. This involvement contributes significantly to patient satisfaction and better care outcomes.

Young & O'Brien (2018) highlights the importance of multidisciplinary collaboration in patient-based care models. This collaboration not only improves the effectiveness of teamwork but also helps to integrate the role of nurses into the clinical decision-making process. This is relevant to the needs of modern healthcare services that demand operational efficiency without sacrificing quality of care. Good cooperation between doctors, nurses, and other health workers allows all aspects of patient needs to be met comprehensively.

Studies by Chan et al. (2018) and Foster & Hawkins (2020) highlight the importance of technology integration in modern healthcare models.



Technologies such as electronic health record (EHR) systems and telemedicine provide new opportunities for nurses to be more actively involved in remote care and more efficient documentation processes. However, these findings also show that the successful implementation of the technology is highly dependent on adequate training and policy support.

Research by Valentine et al. (2018) provides empirical evidence that nurse involvement contributes directly to improved clinical outcomes and patient satisfaction. Nurses who are actively involved in medical decision-making can help reduce clinical errors and improve the efficiency of care. This shows that nurse involvement is not only a supporting element but also a key factor in the success of patient-based care.

Duffield et al. (2018) highlight the various barriers that nurses face in supporting patient-based care models. Obstacles such as lack of specialized training, high workload, and lack of support from hospital management are the main challenges. These constraints point to the need for more systematic interventions, including the provision of adequate resources and a reduction in the administrative burden on nurses to allow them to focus on patient care.

McCormack & McCance (2020) make an important theoretical contribution through the concept of patient-based care that emphasizes a holistic and interdisciplinary approach. These findings provide a basis for the development of more inclusive health care policies and practices. This theoretical framework is relevant in facing modern challenges, such as the increasing number of patients with complex needs and the integration of technology in healthcare.

This interpretation confirms that the success of the modern healthcare model requires the strategic role of nurses, multidisciplinary collaboration, technology support, and policies that support training and workload reduction. With a more systematic and holistic approach, the challenges in implementing patient-based care models can be overcome,

providing greater benefits to patients and the health system as a whole.

## Discussion and Analysis

The evolution of the healthcare model towards patient-centered care is a response to the increasingly complex needs of patients in the modern era. The findings from the analyzed literature show that nurses play a strategic role in supporting the implementation of this model. As explained by McCormack & McCance (2017), nurses are not only in charge of providing clinical care, but also being the main liaison between patients and the medical team. This role is increasingly relevant with the increasing focus on patient experience as one of the main indicators of health service quality.

Today's global phenomena, such as rising life expectancy and prevalence of chronic diseases, demand a more inclusive and focused healthcare model on the individual needs of patients. The findings from Valentine et al. (2018) confirm that nurse involvement in patient-based care significantly improves clinical outcomes and patient satisfaction. In practice, nurses who are actively involved in medical decision-making can help reduce clinical errors, which is one of the major problems in modern healthcare.

Technology is also a key driver in the evolution of the healthcare model. Chan et al. (2018) and Foster & Hawkins (2020) show that the use of technology, such as electronic health record (EHR) systems and telemedicine, allows nurses to be more efficiently involved in patient care. This technology helps to improve access to information and facilitate coordination between health workers. However, the implementation of this technology cannot be separated from challenges, such as the need for special training and adaptation to the new system, which is an obstacle for most health institutions.

Multidisciplinary collaboration is another key element in the success of the modern healthcare model. Young & O'Brien (2018) highlights that





collaboration between doctors, nurses, and other healthcare workers not only improves operational effectiveness, but also ensures that patient needs are met holistically. In this context, nurses serve as the main coordinator, ensuring that every aspect of care is planned and executed properly.

However, the results of the study also reveal various obstacles in the implementation of the patient-based care model. Duffield et al. (2018) noted that lack of training, high workload, and lack of policy support are the main obstacles faced by nurses. These constraints point to the need for more supportive policies, such as reducing the administrative burden on nurses and investing in relevant training programs.

Theoretically, these findings are in line with the concept of patient-centered care, which emphasizes the importance of a strong relationship between patients and healthcare professionals to improve the experience and outcomes of care (Berwick et al., 2008). The role of nurses as the main support in this interaction is an important factor in the success of the modern health service model. However, the implementation of this theory requires better integration between technology, training, and institutional policy.

From a global perspective, many countries have adopted patient-based healthcare models to address challenges in their healthcare systems. A real example is the use of telemedicine in remote areas to connect patients with health workers without geographical boundaries. However, access to supporting technology and infrastructure remains a challenge in developing countries, which requires further investment in health workforce resources and training.

The authors argue that strengthening the role of nurses in the patient-based healthcare model is a strategic step that not only improves service quality but also creates a more efficient health system. Nurses, with their expertise, can play a dual role as a direct care provider and clinical decision supporter, thus positively impacting patient care outcomes.

In conclusion, the evolution of healthcare models that place nurses as strategic elements in patient-based care has great potential to deliver more inclusive and responsive care. However, the success of this model is highly dependent on institutional support, training, and the proper use of technology. The authors recommend the need for collaborative policies involving governments, health institutions, and technology providers to address existing constraints and support the development of sustainable health services.

#### **4. Conclusion**

The evolution of the healthcare model shows that patient-centered care has become an important framework for improving the quality and effectiveness of healthcare services. This study emphasizes that the role of nurses is very strategic in supporting the implementation of this model. As the primary liaison between patients and the medical team, nurses have the ability to create a more personalized and holistic care experience. Active nurse involvement has been shown to improve patient clinical outcomes and their satisfaction levels, as found in the various literature analyzed.

However, the implementation of a patient-based healthcare model is inseparable from various challenges. Lack of specialized training, high workload, and lack of policy support are the main obstacles that reduce the effectiveness of nurse engagement. In addition, while technologies such as electronic health records (EHRs) and telemedicine offer great opportunities, their success depends on adaptation and additional training for healthcare workers. Therefore, the success of this model depends heavily on the right integration of technology, relevant supporting policies, as well as ongoing training programs for nurses.

The study concludes that to create a more inclusive and responsive healthcare system, a multidisciplinary approach involving collaboration between governments, health institutions, and medical personnel is needed. By emphasizing the strategic role of nurses, patient-based healthcare models can provide significant benefits, both for



patients and the health system as a whole. To support further development, empirical research is needed to evaluate the effectiveness of nurse training programs in supporting patient-based care in various healthcare institutions. Comparative studies on the implementation of health technologies, such as EHR and telemedicine, are also important to understand their impact in improving nurse engagement in developing and developed countries. In addition, further research is needed to explore the impact of nurse administrative burden reduction policies on the quality of patient-based care as well as a review of multidisciplinary collaborative approaches to strengthen the role of nurses in medical teams. Long-term research on the influence of nurse involvement in patient-based care on patient satisfaction and clinical outcomes globally can also be the basis for more effective policy development. This recommendation is expected to be a foothold to create better and sustainable health services.

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