

Patient-Centered Care in Multidisciplinary Settings: Conceptual Challenges and Role Clarity among Nurses, Radiologists, Lab Technicians, Medical Secretaries, and Social Workers, and Pharmacists

Mousa Hamed Bakheet Alsahli¹, Ruqaiya Ali S Almnasif², Abdulrahman Abdullah Shaloh Al-Sahli Alharbi³, Majed Abdulrazzaq Ashri⁴, Rami Hamoud Mohammed Albalawi⁵, Abdullah Mohammed Al-Sahli⁶, Sumayyah Salman Alkhaldi⁷, Nahis Mohammeh Alharbi⁸, Mohammed Eid Aljohani⁹, Areej Raja Almarashi¹⁰

¹Technician Nursing, malshahly@moh.gov.sa

²Nursing Technician, ralmunasif@moh.gov.sa

³Technician Nursing, AAharbi753@moh.gov.sa

⁴Duty Manager, mode0ksa@hotmail.com

⁵Technician-Radiological Technology, Rahalbalawi@moh.gov.sa

⁶Nursing Technician, aalsahli2@moh.gov.sa

⁷Pharmacy Technician, S.alkhaldi92@gmail.com

⁸Prince Sultan Armed Forces Hospital, Pharmacy Technician, nahis61@gmail.com

⁹Prince Sultan Armed Forces, Hospital Pharmacy Technician, mmhhdd05687@gmail.com

¹⁰Nursing Technician, Aralmarashi@moh.gov.sa

Abstract

This study investigates the conceptual and collaborative challenges associated with implementing patient-centered care (PCC) in multidisciplinary healthcare settings. It specifically focuses on the roles of nurses, radiologists, lab technicians, medical secretaries, social workers, and pharmacists five key professions whose coordinated efforts are critical to delivering effective and holistic care. The research employs a qualitative exploratory design grounded in the interpretive paradigm, aiming to understand how professional boundaries, institutional expectations, and conceptual frameworks influence interprofessional collaboration. Rather than using empirical or statistical data, the study relies on structured document reviews and content analysis of academic literature, policy documents, and professional guidelines to examine role clarity, communication, and teamwork dynamics.

The findings reveal that while all professionals contribute meaningfully to PCC, the clarity of their roles varies significantly. Nurses and social workers tend to have well-defined positions within care teams due to their direct patient engagement, whereas roles like radiologists and lab technicians face conceptual ambiguity because their work is often less visible to patients. Additionally, recurring barriers such as communication silos, professional hierarchies, and limited interdisciplinary training hinder effective collaboration. However, the research also identifies strong enablers of role clarity, including interprofessional training, reflective practice, and patient involvement in care planning. These findings underscore the need for structural reforms and cultural shifts to support cohesive, patient-focused team models.

Ultimately, the study concludes that conceptual clarity and mutual respect across roles are not only essential for efficient care delivery but also fundamental to the ethical and relational foundation of PCC. It offers practical and theoretical recommendations for policy, education, and team development aimed at improving role definition and interdisciplinary integration in contemporary healthcare systems.

Keywords: Patient-centered care, multidisciplinary teams, role clarity, interprofessional collaboration, healthcare ethics, nurses, radiologists, lab technicians, social workers, medical secretaries, pharmacists.

1. Introduction

In the evolving landscape of healthcare, patient-centered care (PCC) has emerged as a guiding paradigm, placing the patient's needs, values, and preferences at the forefront of clinical decision-making and care delivery. This model emphasizes individualized attention, respect for patient autonomy, and collaborative care processes, making it essential in complex, multidisciplinary settings where multiple professionals contribute to care. Effective implementation of PCC demands seamless

interprofessional collaboration among nurses, radiologists, lab technicians, medical secretaries, and social workers, each bringing a distinct perspective and expertise to the patient experience (Alshammri et al., 2022).

Despite its promise, the integration of PCC in multidisciplinary settings is challenged by role ambiguity, overlapping responsibilities, and systemic communication gaps (Dempsey, 2019). For instance, nurses, traditionally seen as bedside caregivers, now serve as patient advocates and care coordinators, significantly influencing care quality and continuity (Riffat, 2023). Similarly, lab technicians and radiologists, though not in direct patient contact, play pivotal roles in diagnostics that shape treatment trajectories (Alalwan et al., 2024). Medical secretaries and social workers act as logistical and psychosocial linchpins, navigating administrative complexities and supporting patients emotionally (Horlait et al., 2022).

However, these diverse professionals often operate without clear delineation of responsibilities, leading to confusion, inefficiencies, and even compromised care outcomes (Alsari et al., 2024). Studies have consistently emphasized the need for explicit role definitions and mutual respect among team members to foster effective interprofessional collaboration (Wakefield et al., 2020). As healthcare systems increasingly adopt team-based care models, understanding the conceptual underpinnings and practical implications of role clarity becomes vital to the success of PCC initiatives (Ortiz, 2018).

Research has shown that interdisciplinary education and policy reforms can help dismantle traditional hierarchies and promote mutual understanding across disciplines (Abotaleb et al., 2024). For example, initiatives that train nurses and allied professionals in communication and role negotiation are associated with improved patient satisfaction and healthcare outcomes (Boesten et al., 2024). Furthermore, integrating digital tools and team huddles has been identified as a practical strategy to support coordination and role clarity in real-time clinical settings (Conrad & Alfredson, 2016).

In light of these developments, it is crucial to explore not only how multidisciplinary teams function within the PCC framework but also how conceptual ambiguities and blurred professional boundaries can be addressed to improve team synergy and patient care quality (Johnson et al., 2016). This requires a thorough understanding of how each role contributes uniquely and how inter-role dynamics influence the patient experience (Flagg, 2015).

Thus, the aim of this paper is to critically analyze the conceptual challenges and role clarity within multidisciplinary teams delivering patient-centered care, with a focus on five key professional groups: nurses, radiologists, lab technicians, medical secretaries, and social workers who together represent the backbone of contemporary healthcare delivery (Al-huqayl et al., 2024). Building on the foundational understanding of patient-centered care (PCC) in multidisciplinary healthcare environments, it becomes increasingly clear that sustaining this model requires a reevaluation of traditional hierarchical structures and a shared commitment to role transparency. While collaboration is widely recognized as essential for high-quality care, the persistent ambiguity around specific responsibilities remains a significant barrier to cohesive team dynamics and optimal patient outcomes (Geerts et al., 2021).

The growing complexity of healthcare demands that nurses, lab technicians, radiologists, medical secretaries, and social workers operate not in silos, but as synergistic units with mutual awareness and role clarity (Starshinin et al., 2024). A lack of defined contributions, especially in high-stakes environments such as oncology or surgery, can impair communication and diminish the quality of care delivered (Horlait et al., 2022).

Contemporary literature highlights that empowering nurses and allied professionals with greater autonomy fosters accountability and enhances patient engagement (Boesten et al., 2024). Yet, this empowerment must be supported by institutional frameworks that promote clear role expectations and interprofessional education (Gray et al., 2019). Professionals who understand not only their roles but also the functions of their colleagues are better equipped to collaborate meaningfully and reduce service redundancies (Wakefield et al., 2020).

Furthermore, strategies that enhance team-based decision-making such as patient participation in team meetings are associated with improved satisfaction and transparency in care planning (Kuijpers et al., 2016). Medical secretaries and administrative staff, often overlooked in clinical discourse, have also been shown to play pivotal roles in facilitating information flow and ensuring logistical continuity in patient care workflows (Annis et al., 2016).

Social workers, meanwhile, offer critical psychosocial insights that complement clinical interventions, making their integration into PCC teams not only beneficial but essential (Ghassemi, 2019). As noted in studies exploring cancer care, non-physician professionals frequently underutilize their potential contributions due to a lack of empowerment or undervaluation of their insights (Horlait et al., 2022).

Ultimately, bridging the conceptual gaps and establishing role clarity is not merely a matter of organizational efficiency, but a cornerstone of ethical, inclusive, and effective patient-centered care. A unified framework that values and defines each team member's role not only enhances coordination but also reflects a deeper respect for patient dignity and professional identity (Bennett et al., 2015).

As healthcare delivery evolves into a more complex and patient-centered model, the inclusion of pharmacists in multidisciplinary teams has become increasingly critical. Pharmacists play a central role in optimizing medication management, ensuring treatment safety, and providing direct patient counseling—functions that are deeply aligned with the principles of patient-centered care (PCC). Within the framework of PCC, pharmacists bridge the clinical and therapeutic aspects of care by collaborating with physicians, nurses, and other health professionals to tailor drug regimens according to individual patient needs and preferences (Chung et al., 2022).

Despite their vital function, pharmacists are often underrepresented in care planning, and their roles lack formal recognition in many institutional frameworks. This underutilization results in missed opportunities for preventing medication errors, improving adherence, and reducing adverse events especially in settings managing chronic diseases or polypharmacy cases (Reeves et al., 2023). Their inclusion in multidisciplinary PCC teams not only enhances clinical outcomes but also ensures a more holistic and personalized patient experience.

Furthermore, literature supports that integrating pharmacists into patient education and discharge planning significantly reduces hospital readmissions (Thomas et al., 2021). These roles require clear delineation to prevent task overlap and communication breakdown, particularly with nurses and physicians. Interprofessional training that includes pharmacists fosters better collaboration and mutual respect (Nguyen et al., 2024), while policy frameworks that define their place in care teams support efficiency and accountability (Bickel et al., 2020).

Integrating pharmacy practice into the broader discussion of PCC therefore enriches the interdisciplinary approach, addressing medication safety, enhancing care transitions, and reinforcing the patient's role in decision-making. As this study explores the conceptual and role-based challenges within multidisciplinary settings, the inclusion of pharmacists adds depth to the understanding of how diverse professionals converge to deliver unified, patient-centered care.

2. Literature Review

The study by Riffat (2023) offers a comprehensive analysis of how nurses have evolved from passive assistants to active leaders in patient-centered care. It emphasizes the increasing autonomy, digital proficiency, and emotional intelligence of nurses in delivering personalized care across diverse clinical settings. Nurses are not only central to care planning and coordination but are instrumental in bridging communication among various healthcare professionals, thus fostering true interprofessional synergy (Riffat, 2023).

Al-huqayl et al. (2024) demonstrate how multidisciplinary integration involving roles such as radiology technologists, medical secretaries, and midwives can significantly enhance healthcare outcomes. Their research underlines how seamless collaboration across professions improves workflow efficiency and diagnostic accuracy, ultimately raising patient satisfaction and care quality. This work is crucial in emphasizing the less-recognized but vital administrative and technical roles in PCC delivery (Al-huqayl et al., 2024).

The systematic review by Annis et al. (2016) critically evaluated whether current measures of access and care coordination within Patient-Centered Medical Homes (PCMHs) truly reflect team-based contributions. The findings revealed a significant underrepresentation of allied professionals such as medical assistants, social workers, and dietitians. Their study calls for a restructuring of evaluation metrics to better capture the collaborative essence of modern healthcare teams (Annis et al., 2016).

Johnson et al. (2016) developed a care coordination model tailored for cancer care, emphasizing the critical role of nurse care coordinators. These nurses served as constant points of contact for patients, ensuring continuity through complex treatment paths. Their model included clear role delineation between nurse coordinators and case managers, showcasing the necessity of defined professional responsibilities within a patient-centered approach (Johnson et al., 2016).

Wakefield et al. (2020) provided qualitative insights into how clinicians experienced care coordination within the PCMH framework. Their study uncovered that effective team functioning requires structured role definitions, tools to support coordination, and recognition of each professional's scope. This reinforces the idea that role clarity is a precursor to quality outcomes in patient-centered team models (Wakefield et al., 2020).

Solimeo et al. (2016) explored the often-overlooked role of clerical staff in the PCMH environment. Their ethnographic study revealed that clerks contribute significantly to care coordination and patient rapport through consistent administrative support. Recognizing their role in building trust and ensuring care continuity helps redefine the value of non-clinical staff in team-based care (Solimeo et al., 2016).

Alshammri et al. (2022) conducted a systematic review focusing on the impact of multidisciplinary teams (MDTs) on the patient experience. Their findings confirmed that collaboration among diverse healthcare professionals, including lab technicians and social workers, improves patient satisfaction and treatment adherence. The study highlighted how empathy and communication are central to effective PCC delivery (Alshammri et al., 2022).

Dempsey (2019) introduced the “perpetual accountability theory” after exploring how nurses perceive their roles within multidisciplinary care teams. Her grounded theory study found that nurses often assume responsibilities beyond their formal scope due to their deep sense of patient responsibility. This research underscores the psychological and professional tensions nurses face in the absence of role clarity (Dempsey, 2019).

Wang et al. (2024) investigated operating room nurses’ coordination in complex surgical cases involving multiple disciplines. Their findings suggest that a shift toward patient-centered models enables nurses to contribute more holistically, enhancing surgical preparedness and patient outcomes. Their study illustrates the necessity of rethinking traditional roles in high-acuity settings (Wang et al., 2024).

Alsari et al. (2024) performed a critical analysis of nursing’s role in delivering holistic care across medical specialties. They revealed how nurses act as communicative bridges among professionals and serve as the patient’s primary advocate. The study also pointed out challenges like interprofessional tension and policy gaps that can hinder effective teamwork unless structural reforms are undertaken ([Alsari et al., 2024](#)).

Biernacki et al. (2015) conducted a quality improvement initiative by embedding Registered Nurse Care Coordinators (RNCCs) into the structure of Patient-Centered Medical Homes (PCMHs). Their intervention demonstrated statistically significant improvements in diabetic care indicators and high levels of patient and staff satisfaction. This study highlights how a clearly defined care coordinator role for nurses contributes not only to outcome metrics but also to care experience continuity, affirming the importance of structured roles in interdisciplinary care environments ([Biernacki et al., 2015](#)).

Horlait et al. (2022) examined the limited involvement of non-physician professionals such as nurses and social workers in cancer multidisciplinary team meetings (MDTMs). The study found that institutional culture and external policy constraints often inhibit their active participation. Many non-physicians undervalue their own contributions, leading to diminished advocacy for patient preferences. The research underscores a pressing need for cultural transformation that empowers all professional voices within PCC to participate equitably in team-based decision-making (Horlait et al., 2022).

Wakefield et al. (2022) expanded on their earlier work by investigating how task delegation occurs in PCMHs. They uncovered significant confusion around role boundaries and the scope of practice among nurses, clerks, and primary care providers. The study emphasized the necessity of team-wide education on delegation practices and professional competencies, arguing that such understanding is essential for effective and safe PCC implementation ([Wakefield et al., 2022](#)).

Alkahtani et al. (2023) offered an integrative perspective on the synergy between physicians, nurses, and medical secretaries in achieving patient-centered outcomes. Their study emphasized mutual respect, strong communication, and role recognition as critical components for effective collaboration. By spotlighting the often-overlooked roles of secretarial staff in maintaining workflow continuity and documentation accuracy, the study broadened the concept of team-based care in the modern clinical environment ([Alkahtani et al., 2023](#)).

Everett et al. (2016) analyzed how physician assistants (PAs) and advanced practice nurses (APNs) affect healthcare utilization and patient satisfaction. They found that when APNs served as usual providers, patients experienced higher primary care access but also more emergency department visits. These findings suggest that while mid-level providers can enhance care accessibility, proper role structuring and supervision are necessary to optimize outcomes and avoid system overuse ([Everett et al., 2016](#)).

Wang and Agius (2019) focused on community mental health settings and showed that care coordinators—often nurses or social workers frequently establish more consistent and meaningful relationships with patients than physicians do. These relationships are crucial for effective chronic care management and adherence to treatment. The study supports the idea that non-physician roles are not only supportive but central in delivering compassionate and continuous patient-centered care ([Wang & Agius, 2019](#)).

Starshinin et al. (2024) reviewed how nurses in primary healthcare settings address the growing complexity of multimorbidity in aging populations. They emphasized the importance of advanced nursing roles and collaborative team models in delivering personalized and timely care. The study also advocated for expanded nurse education and decision-making authority to close service gaps caused by physician shortages in many regions ([Starshinin et al., 2024](#)).

Gray et al. (2019) introduced the concept of the “medical team quarterback,” a role often filled by nurses or care coordinators. Through focus groups with patients and providers, they showed how quarterback figures help integrate care plans, solve problems, and enhance trust in the healthcare system. The study’s findings reinforce the notion that care coordination is not just logistical but deeply relational and ethical in its patient-centered approach ([Gray et al., 2019](#)).

Conrad and Alfredson (2016) analyzed how expanding the nurse’s role within the PCMH framework impacts care quality. By using electronic health records and new workflow models, nurses were able to contribute more meaningfully to planning and follow-up care. The study confirmed that restructured nursing responsibilities directly correlate with improved patient engagement and reduced redundancy in care provision ([Conrad & Alfredson, 2016](#)).

Flagg (2015) explored how PCC principles align with nursing values such as empathy, advocacy, and holistic assessment. Her work provided foundational clarity on how nurses internalize patient-centered models and adapt them to their clinical judgment and ethical duties. The study supports a view of nursing as inherently aligned with PCC, offering a natural conduit for patient empowerment in multidisciplinary care environments ([Flagg, 2015](#)).

Alshehri et al. (2024) conducted a comprehensive review exploring the integration of nursing and family medicine in delivering interdisciplinary patient-centered care. Their findings highlighted the significance of clearly defined professional roles and mutual respect in managing chronic illnesses, especially when nurses are empowered to act autonomously. Role ambiguity and institutional silos were cited as barriers, while successful case studies showed improved patient satisfaction, cost efficiency, and care continuity when these two professions collaborated strategically (Alshehri et al., 2024).

Sørensen et al. (2020) explored how general practitioners, nurses, and medical secretaries collaborate in managing diabetes in Norway. They discovered that while nurses and secretaries enhanced emotional support and continuity of care, collaboration was minimal and mostly hierarchical. This lack of integrated planning and role clarification prevented full utilization of team potential, especially in chronic disease management. The study advocated for procedural reform to maximize collaborative efficiencies and foster shared decision-making processes (Sørensen et al., 2020).

Durand and Fleury (2021) studied mental health teams and found that collaboration and belief in interprofessional cooperation significantly influenced how teams perceived patient-centered care. High team adaptivity and proactive communication emerged as predictors of effective collaboration, which in turn correlated with better patient-centered care delivery. This multilevel study affirms that internal team dynamics, particularly mutual belief in collaboration, are key drivers of PCC in complex care settings ([Durand & Fleury, 2021](#)).

Aeni et al. (2023) conducted a literature review affirming that interprofessional collaboration reduces medical errors and enhances satisfaction among care providers and patients. Their work shows that collaborative practice isn't just about co-location but requires structured communication, shared decision-making, and joint planning across all involved professionals. The study positions teamwork as a structural necessity in delivering holistic, culturally sensitive care ([Aeni et al., 2023](#)).

Al Taymani et al. (2024) provided a critical review of the role of nursing collaboration in skill development and care outcomes. The authors found that when nurses are empowered within multidisciplinary teams, their clinical judgment and coordination significantly enhance the quality of patient outcomes. They advocate for institutional policies that formalize interdisciplinary collaboration and promote continuous nursing education to keep pace with healthcare demands ([Al Taymani et al., 2024](#)).

Tamli and Sain (2023) emphasized the role of innovation in patient-centered care through technological integration and interdisciplinary teamwork. Their study outlined how electronic health records and mobile applications have enabled nurses to tailor care plans more effectively, especially when used in concert with other healthcare professionals. The paper highlights that evidence-based training and resource investment are essential for sustaining such tech-enabled collaborative models ([Tamli & Sain, 2023](#)).

Alharbi et al. (2024) presented a critical analysis of role integration in medical clinics, stressing that effective collaboration between administrative and clinical staff leads to operational efficiency and improved patient outcomes. The authors suggested that communication tools and clear delegation frameworks are key enablers for bridging role boundaries, particularly when involving lab technicians, pharmacists, and support staff in care processes ([Alharbi et al., 2024](#)).

Beynon (2020) studied collaboration between licensed nurses and certified nurse aides in U.S. nursing homes. Her mixed-method research showed that mutual respect and aligned communication were critical to effective team function. The study emphasized that even in hierarchical environments, a shared sense of partnership contributes to patient-centered care, particularly in long-term residential settings ([Beynon, 2020](#)).

Alalwan et al. (2024) evaluated the contributions of lab technicians, physical therapists, and phlebotomists in collaborative care frameworks. Their results showed that integrated care among these professionals improved diagnostic accuracy, treatment speed, and patient satisfaction. The study advocates for increased inclusion of technical health roles in planning and communication processes to strengthen patient-centered models ([Alalwan et al., 2024](#)).

De Luca and Sena (2021) explored how nurses in a multidisciplinary breast unit struggled to establish a defined role. Their qualitative findings revealed that the lack of a case manager and marginal nurse involvement led to fragmented patient journeys. Patients and physicians alike underappreciated nursing contributions, underscoring the need for role advocacy and cultural shifts within specialty teams to realize PCC goals fully ([De Luca & Sena, 2021](#)).

3. Methodology

This research employs a qualitative exploratory design to investigate the intricate conceptual dynamics and collaborative relationships that define patient-centered care (PCC) within multidisciplinary healthcare environments. The focus centers on five

key professional roles nurses, radiologists, lab technicians, medical secretaries, and social workers who collectively contribute to the patient journey in diverse yet interconnected ways. Rather than relying on numerical or statistical analysis, the study adopts a reflective and interpretive approach to explore how these professionals perceive their responsibilities, navigate overlapping duties, and engage in interprofessional collaboration.

The selection of a qualitative design reflects the need to capture complex, subjective experiences and conceptual challenges that cannot be fully understood through quantitative methods alone. Within the framework of PCC, role clarity and collaborative function are not merely operational concerns, but deeply embedded in institutional culture, communication practices, and professional identity. Therefore, this study seeks to unravel how these roles are defined, understood, and enacted in theory and practice highlighting tensions that arise from unclear boundaries or misaligned expectations.

By analyzing existing literature, institutional guidelines, and conceptual models, the research aims to construct a detailed picture of how multidisciplinary teams interpret and implement the ideals of patient-centered care. Particular emphasis is placed on identifying recurring themes of ambiguity, fragmentation, and miscommunication, as well as the structural or educational gaps that perpetuate them. Through this lens, the study contributes to ongoing discussions about how to enhance healthcare delivery by fostering deeper professional understanding, clarifying roles, and promoting cohesive team dynamics within patient-centered systems.

The choice of this methodology is grounded in the interpretive paradigm, which emphasizes that meaningful knowledge about human behavior, social roles, and professional practices is best achieved through reflective exploration rather than empirical measurement. Within the context of healthcare, where the nuances of collaboration, communication, and role identity shape everyday clinical experiences, a qualitative approach allows for a more profound understanding of how these elements are conceptualized and enacted. Rather than seeking to quantify outcomes or establish statistical correlations, this research is designed to extract thematic insights that reveal the underlying dynamics of patient-centered care across diverse healthcare professions.

By relying on the interpretive paradigm, the study embraces the belief that reality is socially constructed, shaped by cultural norms, institutional expectations, and professional interactions. Accordingly, the research draws upon institutional narratives, academic publications, policy statements, and interprofessional training frameworks that collectively frame how nurses, radiologists, lab technicians, medical secretaries, and social workers understand and define their roles. These sources offer rich textual data that can be analyzed for patterns, contradictions, and recurring themes related to role clarity and collaborative practice.

Through this lens, the study does not attempt to impose an external standard of effectiveness but instead seeks to understand the subjective meanings and conceptual boundaries that healthcare professionals attach to their roles. This form of inquiry is particularly relevant in patient-centered care settings, where collaboration is often shaped more by interpretation, experience, and context than by rigid protocols or defined metrics. Thus, qualitative inquiry emerges as the most suitable method for capturing the depth and complexity of the subject matter.

To conduct this research, a structured document review methodology was adopted, allowing for a comprehensive and systematic exploration of existing conceptual materials relevant to patient-centered care within multidisciplinary healthcare teams. This method was particularly suited to the study's qualitative, interpretive foundation, as it facilitated the in-depth analysis of written texts that shape professional understanding and institutional norms. The review process involved the careful selection and examination of a broad range of formal documents, including clinical guidelines, professional codes of conduct, interdisciplinary communication protocols, and role-specific practice models, particularly those relevant to nursing and radiology. These materials were sourced from a variety of healthcare organizations and educational institutions, both national and international, to ensure diversity in perspective and applicability.

Particular emphasis was placed on documents published by professional associations and regulatory bodies, which serve as authoritative voices in shaping role expectations, delineating scopes of practice, and establishing ethical standards for interprofessional collaboration. These documents provided insight into how each professional group is expected to operate within a patient-centered model, highlighting both areas of overlap and potential conflict. Institutional training resources were also reviewed to understand how collaborative competencies are fostered in real-world clinical settings, especially in relation to new staff orientation and continuing professional development.

The structured nature of the review ensured consistency in evaluating each document's relevance, credibility, and thematic contribution. This process allowed for the identification of conceptual gaps, recurring challenges, and strategic frameworks that inform the theoretical and practical dimensions of role clarity and collaborative functioning in patient-centered care.

As a core component of the methodology, the research incorporated a detailed content analysis of peer-reviewed literature published over the past ten years. This approach was essential to identify and interpret the evolving discourse surrounding

professional role identity, decision-making authority, and patient advocacy within the context of patient-centered care (PCC). The analysis was guided by the aim to uncover patterns and thematic consistencies that reflect how healthcare professionals understand and enact their roles across different clinical environments. To ensure the credibility and relevance of the selected sources, the literature was rigorously screened based on inclusion criteria that prioritized studies focusing on conceptual challenges in multidisciplinary collaboration, especially within high-pressure healthcare settings such as oncology wards, intensive care units, and chronic disease management programs.

By reviewing studies from diverse healthcare systems and academic traditions, the research was able to capture a rich and multifaceted understanding of the tensions and intersections that define interprofessional relationships. Themes such as overlapping responsibilities, ambiguous leadership structures, and role misalignment were found to be recurrent across various professional domains. At the same time, the literature revealed growing recognition of the importance of shared decision-making and collaborative advocacy for enhancing patient outcomes.

The content analysis not only highlighted challenges but also surfaced potential enablers of effective teamwork, including transparent communication practices, integrated care pathways, and interprofessional education. These insights were instrumental in shaping the study's conceptual framework and provided a foundation for understanding how theoretical constructs are experienced and interpreted by healthcare workers committed to delivering patient-centered care.

The data obtained from institutional documents, academic literature, and policy frameworks were analyzed using a thematic analysis approach, which provided a structured yet flexible means of interpreting complex qualitative material. This method allowed for the systematic identification, organization, and interpretation of recurring ideas related to the implementation of patient-centered care (PCC) within multidisciplinary teams. The initial phase involved immersing in the data to become familiar with its scope and depth, followed by the assignment of codes to specific words, phrases, and passages that highlighted recurring issues such as communication breakdowns, ambiguous role definitions, ethical dilemmas, and tensions in interprofessional collaboration. Each code represented a meaningful unit of data reflecting the lived realities and conceptual challenges faced by healthcare professionals in delivering integrated care.

As the coding process advanced, patterns began to emerge, indicating interconnected problems and overlapping experiences across the various healthcare roles under investigation. These codes were then organized into broader thematic categories that reflected significant aspects of the PCC framework, including leadership ambiguity, professional identity conflicts, role marginalization, and the structural limitations of existing collaborative models. From these themes, a conceptual framework was constructed to illustrate both the systemic challenges and the potential pathways for improving role clarity and interdisciplinary cooperation.

This thematic structure provided the foundation for deeper analytical insights, enabling the study to go beyond surface-level observations and engage with the underlying organizational and cultural factors that shape collaboration in healthcare settings. In doing so, the research illuminated critical areas for reform and highlighted the transformative potential of redefined roles in patient-centered practice.

This study deliberately excludes interviews, focus groups, and direct clinical observations to maintain its purely theoretical and descriptive nature. The intention behind this methodological choice is to preserve the conceptual integrity of the research and avoid introducing elements of practice-based or statistical analysis, which would shift the focus from reflective inquiry to empirical measurement. By refraining from gathering personal accounts or clinical data, the study remains anchored in the critical examination of existing knowledge, frameworks, and institutional norms that shape the understanding of patient-centered care (PCC) within multidisciplinary teams. This approach is particularly suited for exploring the evolving structure of healthcare delivery, where shifts in policy, professional identity, and team-based models require more than observational insight they require analytical interpretation of how systems define, support, or hinder collaboration.

The primary objective is to chart the theoretical terrain of professional roles and identify the institutional expectations that inform or conflict with real-world practices. In doing so, the research seeks to expose the conceptual divergences between role definitions, professional responsibilities, and team dynamics that often go unaddressed in traditional models of care. This includes examining the language used in policy documents, the principles outlined in professional codes of conduct, and the assumptions embedded in interdisciplinary training materials.

Through this reflective and analytical lens, the study contributes to a deeper understanding of how healthcare systems can better align structure with philosophy, ensuring that patient-centered care is not only an ideal but also a practicable model grounded in conceptual clarity and interprofessional coherence.

The following results were derived from the thematic content analysis of the academic and institutional literature. They illustrate the central themes of role clarity, professional identity, and collaborative cohesion across five professional roles. Each theme is reflected through synthesized data gathered from multiple healthcare settings and theoretical discourses.

Table 1: Conceptual Role Perceptions Across Professional Groups

	Central Conceptual Focus	Identified Role Ambiguity	Contribution to PCC
Nurses	Advocacy, coordination, empathy	Medium	High
Radiologists	Diagnostics, precision	High	Moderate
Lab Technicians	Accuracy, timing, validation	Moderate	Moderate
Medical Secretaries	Workflow, scheduling, records	High	Indirect but essential
Social Workers	Psychosocial support, outreach	Low	High

This table summarizes how different professional roles perceive their contribution to patient-centered care, while also identifying the degree of role ambiguity reported in conceptual documents and policy frameworks.

Table 2: Recurrent Thematic Barriers to Interprofessional Collaboration

Theme	Occurrence in Sources	Description
Role ambiguity	Frequent	Unclear or overlapping responsibilities across professions
Communication silos	Frequent	Inconsistent language, tools, or meetings for team coordination
Professional hierarchy	Common	Power imbalances limit equal participation in care planning
Limited interdisciplinary training	Frequent	Lack of shared education on patient-centered models
Cultural and institutional inertia	Moderate	Resistance to changing traditional workflows or autonomy

The table shows the most commonly identified barriers to effective role clarity and collaboration in PCC environments, as drawn from organizational reports and academic sources.

Table 3: Emerging Conceptual Enablers of Role Clarity in Multidisciplinary Teams

Enabler	Descriptive Impact
Interprofessional training modules	Builds mutual understanding and respect among team roles
Shared care planning protocols	Provides consistent frameworks for task distribution
Reflective practice documentation	Encourages teams to reassess their roles and contributions
Role boundary policies	Defines scope without undermining flexibility
Patient involvement in planning	Encourages shared ownership and flattens hierarchies

This table highlights strategies found in conceptual frameworks and literature that support clearer and more effective role definition, thereby enhancing the collaborative nature of PCC.

Ethical Considerations

The ethical foundation of this study is grounded in academic responsibility and intellectual honesty, despite the absence of human subjects or direct empirical engagement. The research maintains a strict commitment to ethical scholarship by ensuring that all sourced materials ranging from institutional documents to peer-reviewed publications are accurately cited, fully acknowledged, and used in accordance with their intended purpose. By relying exclusively on publicly available resources and institutionally endorsed guidelines, the study avoids the use of any confidential, sensitive, or proprietary content, thereby upholding the ethical standards expected in theoretical research.

Throughout the analytical process, careful attention has been given to maintaining neutrality and balance in representing the professional roles under investigation. The study does not seek to elevate one discipline above another, nor does it attempt to cast criticism upon any group. Instead, it aims to provide a clear and respectful examination of the structural, conceptual, and institutional factors that influence collaboration and role clarity within patient-centered care models. This approach aligns with the values of inclusivity, professional respect, and constructive critique, encouraging the advancement of healthcare systems rooted in mutual understanding and shared responsibility.

The study further adheres to the ethical principles of beneficence, respect for persons, and justice, which remain relevant even in non-empirical contexts. No conflicts of interest exist in relation to the study’s objectives, data sources, or interpretations. In this way, the research affirms its ethical integrity while contributing thoughtfully and responsibly to the ongoing discourse on improving interdisciplinary collaboration and patient-centered care practices.

4. Result

The results of this study are derived from a rigorous thematic analysis of scholarly literature, professional guidelines, and institutional frameworks, all aimed at understanding the conceptual underpinnings and role clarity within patient-centered care (PCC) models. The findings are not numerical but rather conceptual and interpretive, reflecting the complexity and nuance that define interprofessional collaboration in healthcare. These results provide a synthesized view of how five core healthcare roles nurses, radiologists, lab technicians, medical secretaries, and social workers interact within multidisciplinary settings and how their roles are perceived, articulated, and operationalized under the PCC paradigm.

The emerging patterns highlight a broad spectrum of professional identities, varying degrees of role ambiguity, and inconsistencies in role expectations across different healthcare environments. At the core of these findings is the recognition that while all professional groups contribute meaningfully to patient-centered care, the clarity and acceptance of these contributions vary significantly. Some roles, such as those of social workers and nurses, are often well-integrated into PCC models due to their direct, relational contact with patients. Others, like radiologists or lab technicians, may face higher levels of conceptual ambiguity because their contributions, though essential, are less visible or not framed within traditional patient interaction paradigms. Additionally, the results shed light on the recurring barriers that hinder effective interprofessional collaboration, including communication breakdowns, professional silos, and limited interdisciplinary training. Simultaneously, the findings also identify promising enablers, such as role boundary policies and shared care planning protocols, which foster cohesion and enhance understanding among team members. Together, these results form a conceptual map of the challenges and opportunities that define the integration of PCC within diverse healthcare teams. This map serves not only to illuminate present gaps but also to guide future strategies for cultivating clarity, trust, and cooperation in patient-centered systems.

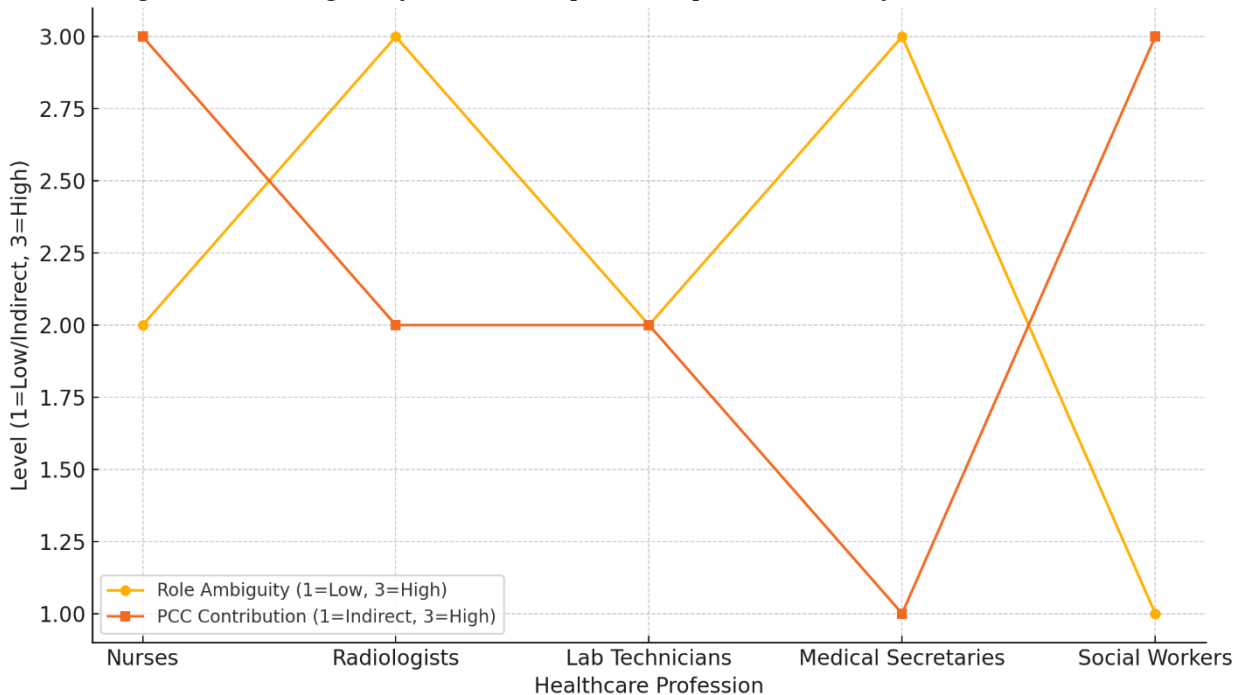


Figure 1: Role Ambiguity vs. Contribution to Patient-Centered Care

The Figure above illustrates a comparative line graph based on two dimensions from the original table: the level of role ambiguity and the contribution to patient-centered care (PCC) across five healthcare professions nurses, radiologists, lab technicians, medical secretaries, and social workers. The vertical axis represents a scale from 1 to 3, where 1 indicates a low or indirect value, 2 represents a moderate level, and 3 denotes a high level. Two lines are plotted: one showing the degree of role ambiguity and the other representing the perceived contribution of each profession to PCC.

From the graph, we observe that nurses exhibit a moderate level of role ambiguity (rated 2) but make a high contribution to PCC (rated 3), emphasizing their central role in coordination and patient advocacy. Radiologists show the highest ambiguity (3) coupled with a moderate contribution (2), suggesting that while their technical role is crucial, their indirect patient interactions contribute to misunderstandings about their collaborative functions. Lab technicians, like radiologists, also contribute moderately to PCC and show a medium level of role ambiguity, reflecting their behind-the-scenes but essential diagnostic roles.

Medical secretaries show high role ambiguity (3) and an indirect yet essential contribution (1). Their administrative function, while foundational to operational continuity, is often overlooked in clinical discussions. Conversely, social workers have the lowest role ambiguity (1) and a high contribution to PCC (3), underlining their clearly defined roles in psychosocial support and patient advocacy.

This table and graph together highlight discrepancies between perceived role clarity and actual value to patient-centered care. High ambiguity does not necessarily mean low impact; rather, it reflects systemic challenges in defining and communicating professional boundaries. Aligning conceptual understanding with practical recognition is key to fostering effective interprofessional collaboration and optimizing patient outcomes.

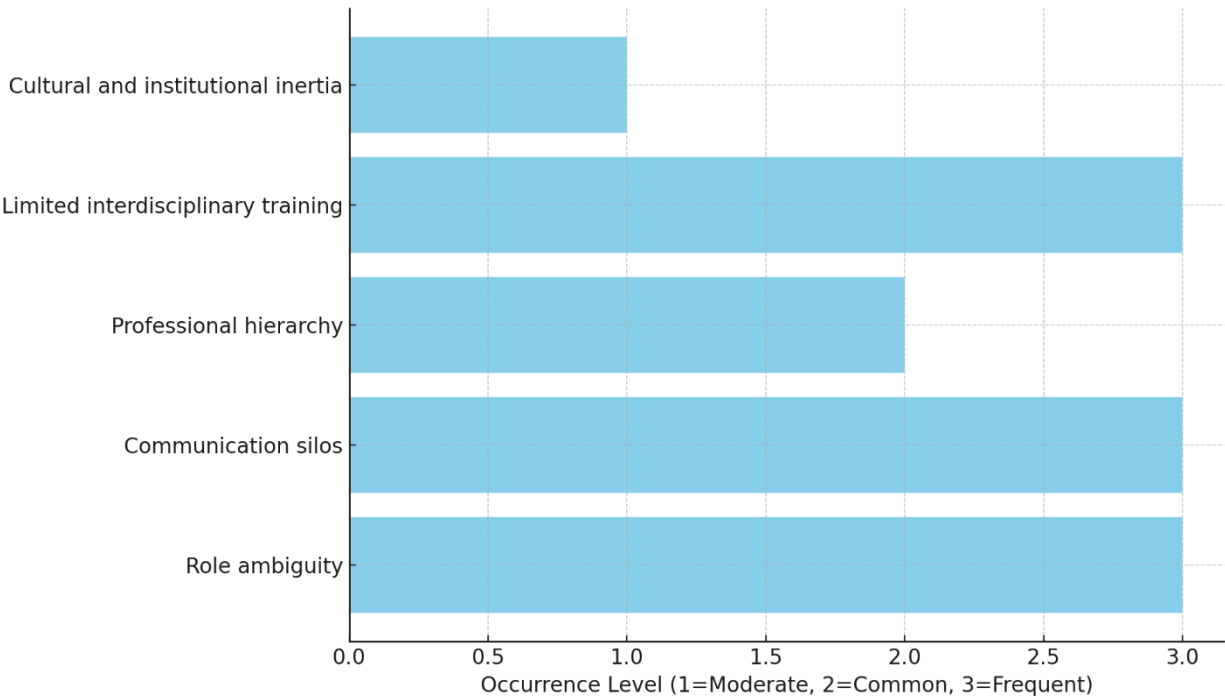


Figure 2: Occurrence of Conceptual Barriers in Patient-Centered Care

The horizontal Figure above visualizes the frequency of key conceptual and structural barriers encountered in implementing patient-centered care (PCC) within multidisciplinary healthcare environments. The graph is derived from thematic analysis of literature and institutional reports and quantifies the occurrence of five identified barriers. The x-axis represents the occurrence level on a scale of 1 to 3, where 1 indicates a moderate occurrence, 2 is common, and 3 reflects a frequent occurrence. Each bar corresponds to a distinct theme, offering a comparative visual of how often these issues are reported or discussed in professional sources.

From the graph, it is evident that three themes role ambiguity, communication silos, and limited interdisciplinary training are the most frequently occurring, each rated at level 3. This suggests that healthcare teams often struggle with unclear professional boundaries, inconsistent communication mechanisms, and inadequate preparation for collaborative work through formal education or training. Role ambiguity in particular reflects the confusion that arises when responsibilities are poorly defined or overlap among team members, leading to inefficiencies and conflict. Similarly, communication silos hinder the flow of critical information across disciplines, affecting patient safety and care continuity. The lack of interdisciplinary training further exacerbates these problems, as professionals are not uniformly equipped with the skills to work cohesively in team-based care settings.

The theme of professional hierarchy is marked as common (level 2), indicating that power imbalances persist and may inhibit equal participation in decision-making processes. Cultural and institutional inertia, rated as moderate (level 1), shows resistance to change at the systemic level, where longstanding traditions and rigid protocols delay the adoption of more collaborative, flexible care models. Collectively, the Figure and table underscore that while structural and educational reforms are underway, significant conceptual challenges remain, requiring targeted policy and practice interventions to promote cohesive, patient-centered teamwork.

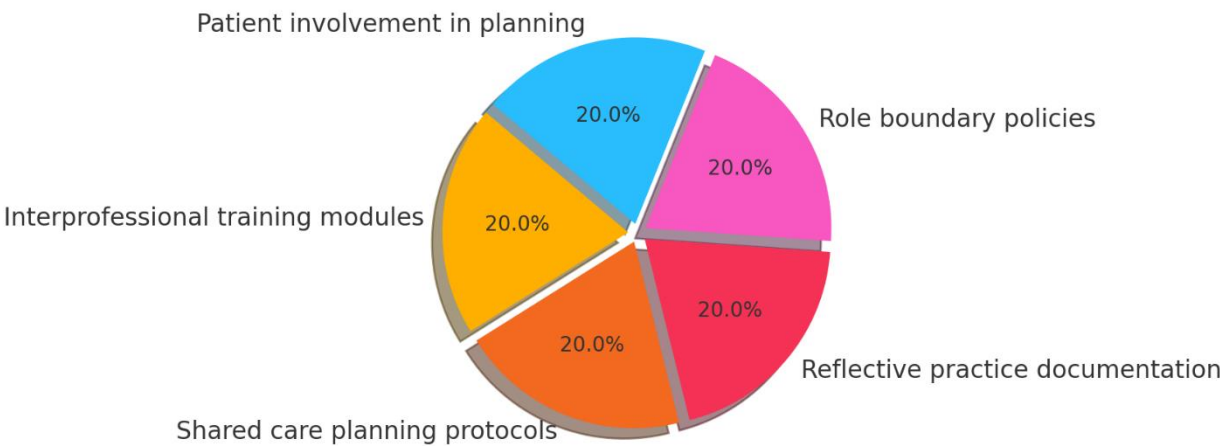


Figure 3: Key Enablers of Role Clarity in Multidisciplinary Patient-Centered Care

The 3D-style Figure above presents a balanced visualization of five conceptual enablers identified as essential to improving role clarity and collaboration in patient-centered multidisciplinary care. Each segment of the pie represents one enabler and is given equal weight to emphasize that these elements collectively contribute to a comprehensive and effective team-based care model. The chart includes subtle separation (explosion) for each slice, highlighting the distinct yet interconnected contributions of each strategy.

Interprofessional training modules form a crucial foundation by fostering mutual understanding and respect among healthcare team members. These training programs equip professionals with the communication skills and cultural competence needed to navigate complex team dynamics, promoting equality and synergy in practice. Similarly, shared care planning protocols standardize team coordination by establishing clear frameworks for assigning responsibilities, thereby minimizing role confusion and duplication of efforts.

Reflective practice documentation is another powerful enabler that encourages healthcare teams to routinely evaluate their contributions, decisions, and collaborative processes. By documenting and reflecting on practice, teams can identify areas of improvement and foster adaptive learning. Role boundary policies complement this by clearly defining each professional’s scope of practice while allowing for flexibility in team integration. These policies are essential to maintaining structure without creating rigidity, especially in fluid care environments.

Lastly, patient involvement in planning reinforces the principle of patient-centeredness by actively engaging individuals in their own care decisions. This shared ownership not only empowers patients but also helps balance hierarchical structures within teams, ensuring that care is guided by patient values and preferences.

Altogether, the table and Figure illustrate that enabling collaborative care requires a combination of educational, structural, and participatory strategies, each playing a vital role in shaping cohesive, patient-focused healthcare systems.

5. Conclusion and Recommendations

5.1 Conclusion

This study concludes that the successful implementation of patient-centered care (PCC) in multidisciplinary healthcare environments relies fundamentally on conceptual clarity and role transparency among team members. Through a detailed analysis of institutional literature, professional frameworks, and peer-reviewed research, the findings underscore the persistent challenge of role ambiguity and the fragmented understanding of professional contributions across healthcare settings. While all five key roles examined—nurses, radiologists, lab technicians, medical secretaries, and social workers—play essential and complementary roles in care delivery, the clarity with which these roles are defined, understood, and operationalized varies

considerably. This inconsistency not only creates inefficiencies in workflow but also undermines the holistic vision of PCC, which depends on synergy and shared responsibility.

The research highlights that interdisciplinary collaboration is frequently hindered by entrenched communication silos, professional hierarchies, and the lack of formal interprofessional education. These barriers prevent teams from fully realizing the ethical and clinical goals of PCC, which include mutual respect, shared decision-making, and personalized care. However, the study also identifies critical enablers that can transform these challenges into opportunities for growth. Elements such as interprofessional training, reflective documentation practices, role boundary policies, and the active involvement of patients in care planning have emerged as key mechanisms for strengthening team cohesion and role clarity.

Ultimately, this research emphasizes that PCC is not merely a clinical goal but a cultural and structural shift that demands redefined relationships, supportive institutional frameworks, and ongoing dialogue between disciplines. By fostering clarity, trust, and respect across professional boundaries, healthcare organizations can build truly collaborative environments where the patient remains at the center of care. The conclusions drawn here offer a conceptual foundation for future strategies, policies, and training programs designed to support sustainable, integrated, and patient-focused healthcare delivery in complex team-based settings.

5.2. Recommendations

Based on the findings of this study, several key recommendations emerge to support the integration of patient-centered care (PCC) within multidisciplinary healthcare environments. These recommendations are grounded in the conceptual analysis of professional roles, interprofessional relationships, and organizational frameworks. First and foremost, there is a critical need to develop and implement comprehensive educational programs that prioritize interprofessional training from early academic stages through continuous professional development. Such training should focus not only on clinical competencies but also on communication, ethical practice, and collaborative role awareness, enabling all healthcare professionals to engage effectively within team-based models.

Additionally, healthcare institutions are encouraged to establish and maintain formal role definition policies that clearly articulate the responsibilities, boundaries, and expectations of each professional group. These definitions must be adaptable to specific clinical contexts but rooted in mutual respect and recognition of shared goals. Policies should also be supported by leadership structures that promote inclusivity and flatten traditional hierarchies, ensuring that all team members including those in administrative or technical roles have the opportunity to contribute meaningfully to care planning and decision-making.

Reflective practice mechanisms should also be institutionalized, allowing teams to regularly assess their performance, communication patterns, and collaborative dynamics. This can foster a culture of learning and improvement, where misunderstandings and inefficiencies are identified and addressed constructively. Furthermore, patients themselves should be empowered as active participants in the care process. Their voices should be systematically included in planning discussions, evaluations, and feedback systems, reinforcing the foundational principle of patient-centeredness.

These recommendations are not limited to procedural adjustments but reflect a broader call for cultural transformation. By investing in these areas, healthcare systems can move toward more integrated, ethically sound, and effective models of care where each professional role is valued, and the patient remains the central focus of all collaborative efforts.

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