

CONVERGENCE OF CARE: A UNIFIED APPROACH TO HOSPITAL MANAGEMENT, NURSING, PHARMACY AND HEALTH MANAGEMENT

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Abstract

The healthcare sector is undergoing a significant transformation, driven by technological advancements, evolving patient expectations, and the need for improved outcomes across all care settings. Traditional siloed healthcare delivery models are proving inadequate in addressing the increasing complexity and demands for personalized care. This study explores the concept of convergent care, a unified approach that integrates hospital management, nursing, pharmacy operations, and health management systems to deliver optimal patient outcomes. The theoretical foundation of convergent care is rooted in systems thinking and complexity science, emphasizing multidisciplinary collaboration, shared mental models, and flexibility in roles. Emerging technologies, such as artificial intelligence, pharmacointelligence, electronic health records, and telehealth, are highlighted as key enablers of this transformation. Effective cross-disciplinary collaboration is identified as the cornerstone of convergent care, requiring shared understanding, structured communication, and integrated training programs. The study also examines the operational and economic benefits of convergent care, including improved quality, reduced costs, and enhanced patient satisfaction. Implementation strategies, such as pilot programs, comprehensive training, and robust performance measurement systems, are discussed as critical for successful adoption. Future directions emphasize the role of advanced technologies, population health management, and regulatory evolution in shaping convergent care models. By fostering collaboration, leveraging technology, and focusing on patient-centered care, convergent care offers a transformative framework for healthcare delivery, enabling organizations to adapt to changing needs and achieve superior outcomes.

INTRODUCTION

The contemporary healthcare landscape is experiencing an unprecedented transformation driven by technological advancements, evolving patient expectations, and the imperative for improved outcomes across all care settings. As healthcare systems worldwide grapple with increasing complexity, resource constraints, and demands for personalized care, the traditional siloed approach to healthcare delivery is proving inadequate. This paradigm shift necessitates a fundamental reimagining of how hospitals, nursing services, pharmacy operations, and health management systems can work synergistically to deliver optimal patient outcomes.



The concept of convergent care represents a revolutionary approach that transcends traditional departmental boundaries, fostering collaborative frameworks that leverage the unique expertise of each discipline while creating seamless, integrated care experiences. Wei (2021) introduced the evidence-informed Convergent Care Theory, emphasizing the critical importance of multidisciplinary collaboration in achieving optimal health outcomes. This theoretical foundation provides a robust framework for understanding how different healthcare domains can unite their efforts to create value that exceeds the sum of their individual contributions.

The urgency for this unified approach is further amplified by the digital transformation sweeping across healthcare sectors. From artificial intelligence-driven pharmacy practices to sophisticated nursing informatics systems, technology is reshaping how care is delivered, monitored, and optimized (Almeman, 2024; Hatem, 2024). These technological advances, when properly integrated across disciplines, offer unprecedented opportunities for enhancing care quality, reducing costs, and improving patient satisfaction.

This study examines the convergence of care across hospital systems, nursing practice, pharmacy operations, and health management, exploring how these traditionally separate domains can be unified to create more effective, efficient, and patient-centered healthcare delivery models. Through an analysis of current evidence and emerging trends, we will explore the theoretical foundations, practical implementations, and future implications of this convergent approach to healthcare.

Theoretical Foundation of Convergent Care

The theoretical underpinning of convergent care is rooted in systems thinking and complexity science, which recognize healthcare as an interconnected ecosystem where changes in one component can significantly impact the entire system. Wei (2022) developed the evidence-informed Convergent Care Theory based on extensive research and synthesis of existing literature, identifying key principles that guide effective collaborative care delivery.

The Convergent Care Theory posits that optimal health outcomes are achieved when healthcare professionals from different disciplines work collaboratively, sharing knowledge, resources, and responsibilities in a coordinated manner. This theory challenges the traditional biomedical model that often compartmentalizes care into discrete specialty areas, instead advocating for a holistic approach that recognizes the interconnected nature of health and illness.

Central to this theoretical framework is the concept of shared mental models, where team members develop a common understanding of patient needs, treatment goals, and care processes. This shared understanding facilitates better communication, reduces medical errors, and ensures that all team members are aligned in their efforts to achieve optimal patient outcomes. The theory also emphasizes the importance of role flexibility, where healthcare professionals are willing to adapt their roles and responsibilities based on patient needs and team dynamics.

Karthi et al. (2025) further support this theoretical foundation through their cross-disciplinary review of nursing, pharmacy, and medical science contributions. Their research demonstrates that advances in clinical practices are most effectively achieved when different disciplines collaborate and share their unique perspectives and expertise. This collaborative approach not only improves patient outcomes but also enhances professional satisfaction and reduces burnout among healthcare workers.

The theoretical framework also incorporates principles from complexity science, recognizing that healthcare systems are complex adaptive systems characterized by non-linear relationships, emergent properties, and dynamic interactions. Teo et al. (2023) emphasize the importance of applying systems and complexity thinking to health system transformation, arguing that traditional linear approaches to change management are insufficient for addressing the complexities inherent in modern healthcare systems.

Digital Transformation and Technology Integration

The digital transformation of healthcare represents one of the most significant drivers of convergent care, creating new opportunities for integration and collaboration across different healthcare disciplines. This transformation is particularly evident in pharmacy practice, where artificial intelligence and data analytics are revolutionizing medication management and patient care delivery.

Hatem (2024) introduces the concept of "pharmacointelligence," which represents the intelligent use of information and technology to optimize medication-related processes and enhance decision-making across the pharmaceutical field. This paradigm shift embraces a comprehensive approach that emphasizes the synergy between human expertise and computational power, enabling pharmacists to provide more personalized and effective care.

The integration of artificial intelligence algorithms, clinical decision support systems, and pharmacy informatics creates a unified platform for medication management that extends beyond traditional pharmacy boundaries. These technologies enable real-time monitoring of patient responses, predictive analytics for adverse drug events, and personalized medication therapy management tailored to individual patient characteristics. When integrated with nursing and hospital systems, these capabilities create a comprehensive care ecosystem that enhances safety and effectiveness across all care settings.



Almeman (2024) further explores the digital transformation in pharmacy, highlighting the emergence of online platforms and the paradigm shift toward cosmeceuticals and personalized medicine. This transformation is not limited to pharmacy practice but extends to all healthcare disciplines, creating opportunities for convergent care delivery through shared digital platforms and integrated information systems.

The convergence of digital technologies across healthcare disciplines enables the creation of comprehensive patient dashboards that provide real-time access to patient data from multiple sources. These integrated systems allow nurses to monitor patient responses to medications in real-time, enable pharmacists to adjust therapy based on nursing observations, and provide hospital administrators with comprehensive data for quality improvement initiatives.

Electronic health records (EHRs) serve as the foundation for this digital convergence, providing a centralized repository for patient information that can be accessed and updated by all members of the healthcare team. However, the true value of EHRs is realized when they are integrated with specialized systems such as pharmacy information systems, nursing documentation systems, and clinical decision support tools.

The implementation of telehealth and remote monitoring technologies further enhances the convergent care model by extending care beyond traditional hospital boundaries. These technologies enable continuous monitoring of patient health status, early detection of potential complications, and timely interventions that can prevent hospital readmissions and improve long-term outcomes.

Cross-Disciplinary Collaboration in Healthcare

Effective cross-disciplinary collaboration represents the cornerstone of convergent care, requiring fundamental changes in how healthcare professionals are trained, how teams are structured, and how care processes are designed. This collaboration goes beyond simple communication between disciplines to create truly integrated care teams that leverage the unique expertise of each profession.

Fox and Felkey (2014) highlight that convergence creates opportunities across healthcare systems, emphasizing the potential for improved outcomes when different healthcare disciplines work together effectively. This convergence is particularly important in complex care situations where patients have multiple comorbidities and require interventions from multiple specialists.

The development of effective cross-disciplinary collaboration requires several key components. First, there must be a shared understanding of each discipline's role, capabilities, and limitations. Nurses bring expertise in patient assessment, care coordination, and patient education. Pharmacists contribute specialized knowledge of medications, drug interactions, and therapeutic optimization. Hospital administrators provide oversight of resource allocation, quality metrics, and system-wide coordination. Communication protocols and structures are essential for effective collaboration. This includes regular interdisciplinary rounds, standardized communication tools such as SBAR (Situation, Background, Assessment, Recommendation), and shared documentation systems that enable real-time information sharing. Technology plays a crucial role in facilitating this communication, providing platforms for secure messaging, video conferencing, and collaborative documentation.

Training and education programs must also evolve to support cross-disciplinary collaboration. Healthcare professionals need to develop skills in team-based care, conflict resolution, and shared decision-making. Simulation-based training programs that involve multiple disciplines working together can help develop these collaborative skills in a safe environment.

The measurement and evaluation of collaborative care requires new metrics that capture the effectiveness of team-based interventions. Traditional quality metrics often focus on individual discipline outcomes, but convergent care requires metrics that assess the effectiveness of the entire care team. This includes measures such as care coordination, communication effectiveness, and patient satisfaction with team-based care.

Leadership plays a critical role in fostering cross-disciplinary collaboration. Healthcare leaders must create organizational cultures that value collaboration, provide resources for team-based care, and remove barriers that prevent effective teamwork. This includes addressing issues such as professional hierarchies, competing priorities, and resource constraints that can impede collaborative efforts.

Quality Management and Operational Excellence

Quality management in convergent care requires a comprehensive approach that considers the entire care continuum rather than focusing on individual departmental outcomes. This integrated approach to quality management creates opportunities for identifying and addressing system-wide issues that might be missed when departments operate in isolation.

Reis et al. (2023) conducted a scoping review of quality management tools applied to drug dispensing in hospital pharmacy, identifying key strategies for improving medication safety and operational efficiency. These quality management principles can be extended across all healthcare disciplines to create comprehensive quality improvement programs that address the entire patient care experience.

The implementation of quality management systems in convergent care requires standardized processes that span multiple disciplines. This includes the development of standardized care protocols that involve



multiple healthcare professionals, quality metrics that measure team-based outcomes, and continuous improvement processes that engage all members of the healthcare team.

Lean management principles can be effectively applied to convergent care models, focusing on eliminating waste and improving efficiency across all care processes. This includes reducing duplication of services, streamlining communication processes, and optimizing resource utilization across departments. When applied collaboratively, lean principles can identify opportunities for improvement that would not be apparent when departments operate independently.

Risk management in convergent care requires a systematic approach to identifying and mitigating risks that span multiple disciplines. This includes medication errors that involve both pharmacy and nursing, communication failures that impact care coordination, and system-level issues that affect multiple departments. Integrated risk management systems can provide early warning indicators for potential problems and enable proactive interventions to prevent adverse events.

Patient safety initiatives in convergent care focus on creating systems that support safe care delivery across all disciplines. This includes the implementation of safety protocols that involve multiple healthcare professionals, such as medication reconciliation processes that involve both pharmacists and nurses, and handoff protocols that ensure continuity of care across different care settings.

Performance measurement in convergent care requires balanced scorecards that capture outcomes across all disciplines involved in patient care. This includes clinical outcomes, patient satisfaction, staff satisfaction, and operational efficiency metrics. These comprehensive performance measures enable healthcare organizations to assess the effectiveness of their convergent care initiatives and identify areas for improvement.

Economic Implications and Value Creation

The economic implications of convergent care are significant, with the potential to create substantial value through improved efficiency, reduced costs, and better patient outcomes. However, realizing these economic benefits requires careful planning and implementation to ensure that the costs of transformation are offset by the value created.

Kwak et al. (2019) conducted a systematic review of the economic impact of pharmacist-participated medication management for elderly patients in nursing homes, demonstrating significant cost savings and improved outcomes when pharmacists are integrated into care teams. This research provides evidence for the economic value of convergent care models that integrate pharmacy services with nursing and medical care.

The value proposition of convergent care is multifaceted, including direct cost savings through improved efficiency, indirect savings through reduced medical errors and complications, and revenue enhancement through improved patient satisfaction and outcomes. Direct cost savings can be achieved through reduced duplication of services, streamlined processes, and optimized resource utilization. For example, integrated medication management systems can reduce the time required for medication administration while improving accuracy and safety.

Indirect cost savings are often more significant than direct savings, particularly in terms of reduced medical errors, hospital readmissions, and complications. When healthcare professionals work collaboratively, they can identify potential problems earlier and implement preventive interventions that reduce the likelihood of costly complications. This is particularly important in medication management, where errors can result in significant patient harm and associated costs.

Ma et al. (2024) explore the promises and challenges toward mass customization of healthcare services, highlighting the potential for creating personalized care delivery models that improve both outcomes and efficiency. Mass customization in healthcare involves developing flexible care delivery systems that can be adapted to meet individual patient needs while maintaining operational efficiency.

The implementation of convergent care models requires significant upfront investment in technology, training, and process redesign. However, these investments can generate substantial returns through improved efficiency and outcomes. Healthcare organizations must develop comprehensive business cases that quantify both the costs and benefits of convergent care initiatives, including both short-term and long-term financial implications.

Return on investment (ROI) calculations for convergent care initiatives must consider both quantifiable and intangible benefits. Quantifiable benefits include reduced length of stay, decreased medication errors, and improved patient throughput. Intangible benefits include improved staff satisfaction, enhanced reputation, and better patient experience, which can have long-term financial implications for healthcare organizations.

Patient-Centered Approaches and Personalization

Patient-centered care represents a fundamental principle of convergent care, ensuring that all healthcare activities are aligned with patient needs, preferences, and values. This approach requires a shift from provider-centered care models to truly patient-centered approaches that engage patients as active participants in their care.



Reading and Merrill (2018) examined the converging and diverging needs between patients and providers who are collecting and using patient-generated health data, highlighting the importance of aligning patient and provider perspectives in data collection and utilization. This research demonstrates the complexity of achieving true patient-centered care and the need for collaborative approaches that consider both patient and provider perspectives.

Personalization in convergent care involves tailoring care delivery to meet individual patient needs, preferences, and characteristics. This includes personalized medication therapy based on genetic factors, customized nursing care plans that consider patient preferences and cultural factors, and individualized discharge planning that addresses patient-specific barriers to recovery.

The integration of patient-generated health data into convergent care models creates new opportunities for personalization and patient engagement. Wearable devices, mobile health applications, and home monitoring systems can provide continuous data streams that enable healthcare teams to monitor patient progress and adjust care plans in real-time. However, the effective use of this data requires collaborative approaches that involve all members of the healthcare team.

Shared decision-making represents a key component of patient-centered convergent care, involving patients as active participants in care planning and decision-making processes. This requires healthcare teams to work collaboratively to present treatment options, explain risks and benefits, and support patients in making informed decisions about their care.

Patient experience in convergent care is enhanced through coordinated care delivery that minimizes fragmentation and ensures continuity of care. When healthcare professionals work collaboratively, patients experience seamless care transitions, reduced redundancy in assessments and procedures, and improved communication about their care plan and progress.

Care coordination in patient-centered convergent care involves designated care coordinators who work across disciplines to ensure that all aspects of patient care are properly integrated and aligned. These coordinators serve as the primary point of contact for patients and families, helping to navigate complex healthcare systems and ensuring that all care team members are aware of patient needs and preferences.

Implementation Strategies and System Transformation

The successful implementation of convergent care models requires comprehensive transformation strategies that address organizational culture, technology infrastructure, workflow processes, and performance measurement systems. This transformation cannot be achieved through incremental changes but requires fundamental redesign of how healthcare organizations operate.

Teo et al. (2023) present a Health System Transformation Playbook that utilizes an integrated design, systems, and complexity thinking approach to health system transformation. This playbook provides a systematic methodology for implementing large-scale changes in healthcare systems, emphasizing the importance of stakeholder engagement, iterative design processes, and continuous learning and adaptation.

The implementation strategy must begin with a comprehensive assessment of current state capabilities and readiness for change. This includes evaluating organizational culture, technology infrastructure, staff capabilities, and financial resources. Organizations must also identify key stakeholders and champions who will support the transformation process and help overcome resistance to change.

Change management in convergent care transformation requires sophisticated approaches that address both technical and adaptive challenges. Technical challenges involve implementing new technologies, redesigning workflows, and developing new competencies. Adaptive challenges involve changing organizational culture, addressing professional silos, and developing new ways of working together.

Pilot implementations can provide valuable learning opportunities while minimizing risks associated with large-scale transformation. These pilots should be designed to test key assumptions about convergent care models, identify implementation challenges, and generate evidence for broader organizational adoption. Successful pilot programs can serve as models for system-wide implementation. Training and development programs are essential for building the capabilities required for convergent care. This includes technical training on new technologies and systems, as well as soft skills training on collaboration, communication, and team-based care. Training programs should be designed to involve multiple disciplines working together, reinforcing the collaborative principles of convergent care.

Communication strategies must be developed to keep all stakeholders informed about transformation progress, address concerns and resistance, and celebrate successes. Effective communication involves multiple channels and formats, including formal presentations, informal discussions, newsletters, and social media platforms.

Monitoring and evaluation systems must be established to track implementation progress and measure the impact of convergent care initiatives. This includes both process measures that track implementation activities and outcome measures that assess the effectiveness of convergent care models. Regular evaluation enables continuous improvement and adaptation of implementation strategies.



FUTURE DIRECTIONS AND CHALLENGES

The future of convergent care will be shaped by several emerging trends and challenges that healthcare organizations must be prepared to address. These include advancing technologies, changing patient expectations, evolving regulatory requirements, and increasing focus on value-based care models.

Artificial intelligence and machine learning technologies will continue to advance, creating new opportunities for convergent care delivery. These technologies can enable predictive analytics that identify patients at risk for complications, personalized treatment recommendations based on large datasets, and automated care coordination that reduces administrative burden on healthcare professionals. The Internet of Things (IoT) and connected health devices will create new sources of patient data that can be integrated into convergent care models. These devices can provide continuous monitoring of patient health status, early warning indicators for potential problems, and real-time feedback on treatment effectiveness. However, the integration of these technologies requires robust data management and security systems.

Genomics and precision medicine will create new opportunities for personalized care delivery that requires collaboration across multiple disciplines. Pharmacogenomics testing can guide medication selection and dosing, while genetic risk assessments can inform preventive care strategies. The effective use of genomic information requires collaboration between physicians, pharmacists, nurses, and genetic counselors.

Population health management will become increasingly important as healthcare organizations take on greater financial risk for patient outcomes. This requires convergent care models that extend beyond individual patient encounters to address community health needs and social determinants of health. Public health professionals, social workers, and community organizations will become important partners in convergent care teams.

Regulatory challenges will continue to evolve as convergent care models challenge traditional boundaries between healthcare disciplines. Professional scope of practice regulations, reimbursement policies, and quality standards may need to be updated to support innovative care delivery models. Healthcare organizations must work with regulatory bodies to ensure that convergent care initiatives comply with current requirements while advocating for policy changes that support innovation.

Workforce challenges will require new approaches to healthcare education and training. Future healthcare professionals must be prepared to work in team-based care models and must develop skills in collaboration, communication, and systems thinking. Academic programs may need to incorporate interprofessional education and simulation-based training to prepare students for convergent care environments.

Data privacy and security concerns will become increasingly important as convergent care models require sharing of patient information across multiple systems and organizations. Healthcare organizations must implement robust cybersecurity measures and ensure compliance with data protection regulations while enabling the information sharing required for effective care coordination.

Sustainability challenges require long-term planning and commitment to continuous improvement. Convergent care models must be designed to adapt to changing circumstances and evolving needs. This requires organizational cultures that support innovation and continuous learning, as well as financial models that support ongoing investment in technology and training.

CONCLUSION

The convergence of care across hospital systems, nursing practice, pharmacy operations, and health management represents a fundamental transformation in healthcare delivery that promises to improve outcomes, enhance efficiency, and create more satisfying experiences for both patients and providers. This unified approach transcends traditional departmental boundaries to create integrated care ecosystems that leverage the unique expertise of each discipline while maximizing their collective impact.

The theoretical foundation provided by Wei's Convergent Care Theory establishes the scientific basis for this transformation, while emerging technologies such as pharmacointelligence and digital health platforms provide the tools necessary for implementation. The evidence demonstrates that convergent care models can create significant value through improved quality, reduced costs, and enhanced patient satisfaction.

However, the successful implementation of convergent care requires comprehensive transformation strategies that address organizational culture, technology infrastructure, workforce development, and performance measurement systems. Healthcare organizations must be prepared to make significant investments in technology and training while managing the complex change processes required for system-wide transformation.



The future of healthcare will be increasingly defined by the ability of organizations to create convergent care models that adapt to changing needs and leverage emerging technologies. Those organizations that successfully implement these models will be better positioned to thrive in an increasingly complex and competitive healthcare environment.

As we move forward, continued research and evaluation will be essential for refining convergent care models and identifying best practices for implementation. Healthcare organizations, academic institutions, and policy makers must work collaboratively to support the development and adoption of convergent care approaches that improve outcomes for all stakeholders.

The convergence of care represents not just an operational improvement but a fundamental reimagining of healthcare delivery that places collaboration, integration, and patient-centered care at the center of all activities. By embracing this unified approach, healthcare organizations can create systems that are more effective, efficient, and responsive to the needs of the communities they serve.

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