

Making Multidisciplinary Team-Based Care (MTBC) a Success in Primary Care: A Scoping Review

Zhanming Liang ¹, Jasmine Montgomery ¹, Cate Dingelstad ², Alison Koschel ², Michelle Redford ²

¹College of Business, Law and Governance, James Cook University, Townsville, QLD, Australia; ²Hunter New England and Central Coast Primary Health Network, Newcastle, NSW, Australia

Correspondence: Zhanming Liang, College of Business, Law and Governance, Building 27 First Floor, JCU Townsville Campus Douglas, Townsville, QLD, 4870, Australia, Email Zhanming.liang@jcu.edu.au

Abstract: Patient-centred care is the foundation for safe and high-quality care that enhances patient health outcomes, with multidisciplinary team-based care (MTBC) being a key enabling factor. MTBC is an integrated approach in care provision involving health professionals with different skillsets working in collaboration. Shared goals, clarity of roles, mutual trust, effective communication, and the evaluation of team functions are important for MTBC success. No reviews were identified on the system or cross-organisational approaches that support MTBC in primary care settings. A scoping review was conducted between October and December 2024 to identify international innovations in operationalising MTBC in primary care and the factors that impact its success. The databases searched were CINAHL, ProQuest Central, PubMed, Scopus, and Web of Science, in October 2024. The search terms were informed by two central concepts: MTBC (concept 1) and primary care (concept 2). Concepts of design (concept 3) and factors (concept 4) were added to refine the scope of the search. Following the Arksey and O'Malley framework, the scoping review included 58 articles on data extraction, and confirmed 14 key success factors and 14 barriers that could affect the implementation and adoption of MTBC. The strengths of MTBC in the primary care setting are summarised by six themes: patient-centred benefits, teamwork and collaboration, decision-making and clinical care, communication and coordination, improved access and performance management, and supportive infrastructure. This review further confirms six core benefits and 11 core components of the MTBC model, providing important guidance for MTBC development. A multidisciplinary team-based care model was designed to deliver comprehensive patient-centred care by integrating expertise from various disciplines. By integrating the key elements identified in this review into a specific primary care context, successful implementation of an adaptable MTBC model may lead to improved service delivery and outcomes in primary care.

Keywords: interprofessional, integrated care, patient-centered, multidisciplinary team-based care, interdisciplinary care

Introduction

Primary care is key to a resilient healthcare system that provides continuation of non-hospital care, supports chronic disease management, and is responsive to crises.¹ It optimises health outcomes and directly affects the sustainability of the health system to meet the growing and more complex healthcare needs of the population.² The organization and funding of primary care are vastly different between countries. It can be funded as part of public hospital services such as in China, publicly funded but privately delivered in the United Kingdom, publicly funded but subsidised by out-of-pocket from care recipients as in Canada, mixed with public and private provision as in Australia, and primarily privately funded as in the US.^{3,4} The complexity of funding arrangements and difficulties in coordinating multilevel service providers have been attributed to a fragmented system that makes it difficult for consumers to navigate and access.³ Regardless of how primary care is organised, it is believed that inflexible fee-for-service models, limited scope of practice, and lack of team support make the implementation of a patient-centred approach in the primary care setting challenging.^{3,4}

Furthermore, the changing healthcare needs of the population and common challenges facing primary care provision have necessitated the adoption of new primary care models that enable integration, collaboration, and patient-centredness.^{3,5,6}

Patient-centred care (PCC) is the foundation of safe and high-quality care that enhances patient health outcomes.⁷ Guided by Picker's principles of patient-centred care (PCC), the PCC approach demonstrates healthcare providers' commitment to respecting and responding to the preferences, needs, and values of their patients and consumers,^{8,9} in the process of providing coordinated, continued, and integrated care.¹⁰ Multidisciplinary teams with the required skill mix and ability to collaborate across disciplines is an enabling factor. In primary care, the provision of chronic and preventive care can be negatively affected by rigid funding and time constraints.^{3,6} As part of a multidisciplinary care team, chronic and preventative care can be delegated across the team, improving patient access to holistic care.¹¹ Evidence further suggests that well-organised multidisciplinary teams increase patient satisfaction and reduce staff burnout,^{12,13} and hospital readmissions.^{14,15}

Multidisciplinary team-based care (MTBC) is an integrated approach to providing care. A variety of health professionals may be included as part of a multidisciplinary team, and the discipline varies depending on the patient's health needs. In primary care, multidisciplinary teams may include general practitioners, nurses, allied and community health disciplines, and indigenous health workers and work closely with stakeholders such as hospital management staff who work together in the decision-making process.¹⁶ In general practice, practitioners are often at the core of a multidisciplinary team working in collaboration with a variety of healthcare professionals. By utilising the skills and experience of health professionals from different disciplines, multidisciplinary teams apply more knowledge and experience than disciplines operating in isolation to determine the most appropriate care for their patients.^{16–18} This is particularly beneficial for addressing the needs of patients with complex or chronic diseases.¹⁹ In non-hospital settings, MTBC can improve transitional care for patients transitioning from hospitals to the community,²⁰ integrate primary and secondary tertiary care for people with complex chronic diseases,²¹ and be used as part of a holistic approach to meet the health promotion and prevention needs of community members.¹⁹

A systematic review of the literature on integrated primary care conducted by Mitchell et al²¹ and Mulvale et al²² synthesised the key success elements of multidisciplinary team approaches in primary care. 1) Interdisciplinary teamwork with the right skill mix; 2) communication and information exchange; 3) use of shared care guidelines or pathways; 4) training and education, access, and acceptability; 5) team vision and shared goals; 6) formal quality processes; 7) information systems; and 8) professional feelings as part of the team.^{21,22} Mulvale et al further categorised the key elements into the macro (governance), meso (information systems and organizational culture), micro, and individual levels. The micro level includes team structures, social processes, formal processes, and team attitudes, whereas factors at the individual level refer to beliefs in interprofessional care and flexibility.²²

Many factors may diminish the success of implementation and adoption of a multidisciplinary team approach. Commonly mentioned factors^{23–28} include:

- 1) Inadequate communication within the team;
- 2) Inadequate patient data, missing medical records owing to delays in diagnostic tests, and insufficient coordination across different disciplines.
- 3) Lack of technical and administrative support;
- 4) Lack of long term funding;
- 5) Lack of motivation and involvement of team members;
- 6) Staff shortages and staff absences from multidisciplinary team meetings when many patient cases are scheduled for discussion, and
- 7) Team members' lack of understanding of how an integrated team works differently, roles, and responsibilities.

Therefore, adequate resources and dedicated time, adoption of technology to facilitate timely communication and sharing of patient data and documents, effective team leadership, and patient involvement are enabling factors.²⁹

International experience in the formulation and implementation of MTBC can provide useful guidance in different healthcare contexts. A quick desktop search only identified published systematic or scoping reviews focusing on specific care such as cancer care,²⁹ care pathways,²⁶ geriatric medicine,³⁰ and integration of primary and secondary care.²¹ No reviews were identified on system or cross organization approaches that support multidisciplinary team-based care in primary care settings and factors influencing its adoption and implementation success. Hence, a scoping review was conducted between October and December 2024 to identify international innovations in operationalising MTBC in primary care and the factors that impact its success. This study focused on the following research questions:

- 1) What are the approaches, key strategies, and innovations that support MTBC implementation and adoption in primary care, with specific attention given to general practice (including funding models)?
- 2) What are the key enabling factors for MTBC success?
- 3) What are the common barriers to MTBC and associating strategies in addressing such barriers?

Materials and Methods

This scoping review followed the five-step framework of Arksey and O'Malley (2005)³¹ and was conducted in accordance with PRISMA guidelines³² to ensure transparency and consistency in reporting.

Search Strategy

A comprehensive search was conducted using the following databases: CINAHL, ProQuest Central, PubMed, Scopus, and Web of Science. The search terms were based on two central concepts: (1) multidisciplinary team-based care (MTBC) and (2) primary care. Before conducting the search, keywords under four different concepts were determined. The initial design of the search strategies was to use keywords under concepts 1 (multidisciplinary or interdisciplinary), 2 (primary care), 3 (model, design, or framework), or 4 (success factor, enablers, or obstacles). However, this search generated a large number of studies (>24,000). Quick scanning of some titles confirmed that most papers were irrelevant to answering the research questions. Therefore, we implemented a revised search strategy. First, keywords under concept 1 (Interdisciplinary OR Multidisciplinary) were used to conduct a broad search of the following five databases: Scopus, PubMed, CINAHL, ProQuest Central, and Web of Science. Keywords under concepts 2 (General Practice OR General Practitioner, OR Primary Health OR Primary Care OR Physician), 3 (Model OR Framework OR Design), and 4 (success factor OR enablers OR obstacles) were used to search the identified papers using the following strategies: 1) concept 2 + concept 3 and 2) concept 2 + concept 4. Additional citations were identified in the review papers found in the database search.

The search was conducted in October 2024 to identify the most recent and relevant studies published between 2010 and 2024. After full-text review of the articles (study selection) has been completed, a complimentary search of grey literature was conducted via ChatGPT and Google Search Engine using search words of “government policy on multidisciplinary team”, “commissioned reports on multidisciplinary team”, “expand search on google scale” to identify relevant commissioned reports or position papers.

No ethical approval was required to complete the scoping review.

Inclusion and Exclusion Criteria

Studies were included in the review if they were peer-reviewed, written in English, and focused on primary care or general practice using a multidisciplinary team-based model. Articles that did not meet the inclusion criteria or were not published in English were excluded from data extraction.

Study Selection and Screening Process

The Concept 1 keyword search generated 24155 potentially relevant papers from five databases. After the removal of 9638 duplicates, 14517 papers went through further keyword searches under concepts 2 and 3 or concepts 2 and 4. This resulted in 3666 non-review papers and 17 review papers for the title screening. The title, abstract, and full-text screening of the 17 review papers confirmed that six papers may be relevant to the topic. Screening of the references was performed on six review papers, identifying 27 potentially relevant papers. In total 3687 (3666+17) papers went to the title

screening stage performed by ZL, resulting in 188 papers which were uploaded to Covidence.com - systematic review software (32) for abstract screening performed by JM and EG (colleagues of ZL) individually and independently. ZL reviewed 17 papers that received differing decisions made by JM and EG, and made a final decision regarding inclusion or exclusion from the full-text review. The full-text review of 188 articles performed by ZL resulted in the inclusion of 55 articles for JM to perform data extraction. A review of the documents did not reveal any supplementary information to be added to the existing review. A PRISMA flow diagram summarising the screening process and its outcomes is shown in [Figure 1](#). A gray literature search using ChatGPT and Google identified six relevant documents.

Data Extraction

Qualtrics software was used to extract data from the studies³³ included the following characteristics: author(s), year of publication, country of study, geographical location, focus of the study, research methods, study population, sample size, and response rates. The following information relevant to the research questions was extracted:

- 1) Types and core components of multidisciplinary models;
- 2) Funding models supporting a multidisciplinary approach;
- 3) Success factors and barriers for MTBC.

The data were exported from Qualtrics to a Microsoft Excel spreadsheet and imported into NVivo 20 for further analysis and synthesis.

Data Synthesis

The data analysis involved a descriptive summary of the included studies, focusing on key variables, such as core components, success factors, barriers, and strengths of the interdisciplinary models. A deductive approach using Braun and Clarke's (2006)³⁴ thematic analysis was applied to identify key themes by grouping similar concepts and examining the patterns in the data. A comparative analysis was also conducted to explore differences in findings across various study designs, contexts, and populations. The results were synthesised to identify commonalities and discrepancies in the literature, addressing gaps and barriers which guided the development of a flexible MTBC model applicable to primary care settings. To ensure the accuracy and reliability of the analysis process, a codebook with descriptive meanings was generated and discussed between authors, allowing for the clarification and refinement of codes and enhancing the depth of analysis to ensure that the identified themes accurately represented the data.

Results

Data were extracted from the 55 identified papers, as detailed in [Appendix 1](#). Additional information such as the focus of the paper, country of publication, study design, and core content coverage are included in [Appendix 1](#). These studies were published in 21 countries. Countries in which these papers were published were the US (n = 11), Canada (n = 8), and Australia (n = 7). The publication years span from 2010 to 2024, with the following distribution: 2020–2024 (n = 19), 2015–2019 (n = 23), and 2010–2014 (n = 13). The majority of the papers focused on the primary care sector and general practice (n = 44).

Success Factors and Barriers

Collectively, eighty-nine factors that contributed to the success and/or implementation of MTBC were extracted from the 27 identified papers (see [Figure 1](#), PRISMA diagram).^{11,21,35–59} Based on the themes created in some of the papers and the similarity of the factors, 14 key success factors are listed in [Figure 2](#).

In contrast, 17 barriers to the introduction and/or implementation of MTBC were extracted from the 42 identified papers (see [Figure 1](#), PRISMA diagram). Some of the barriers are similar to success factors but from a negative perspective. After comparing the similarity between barriers and removing barriers that were similar to success factors, 17 barriers were finalised, as shown in [Figure 2](#).^{4,21,36,37,41–43,45,47,49,50,55,60–72}

Goal misalignment presents significant barriers to effective collaboration in healthcare, as conflicting individual and team goals, legislative requirements, and patient care objectives often arise.^{36,41,60–62,68,70} However, interprofessional

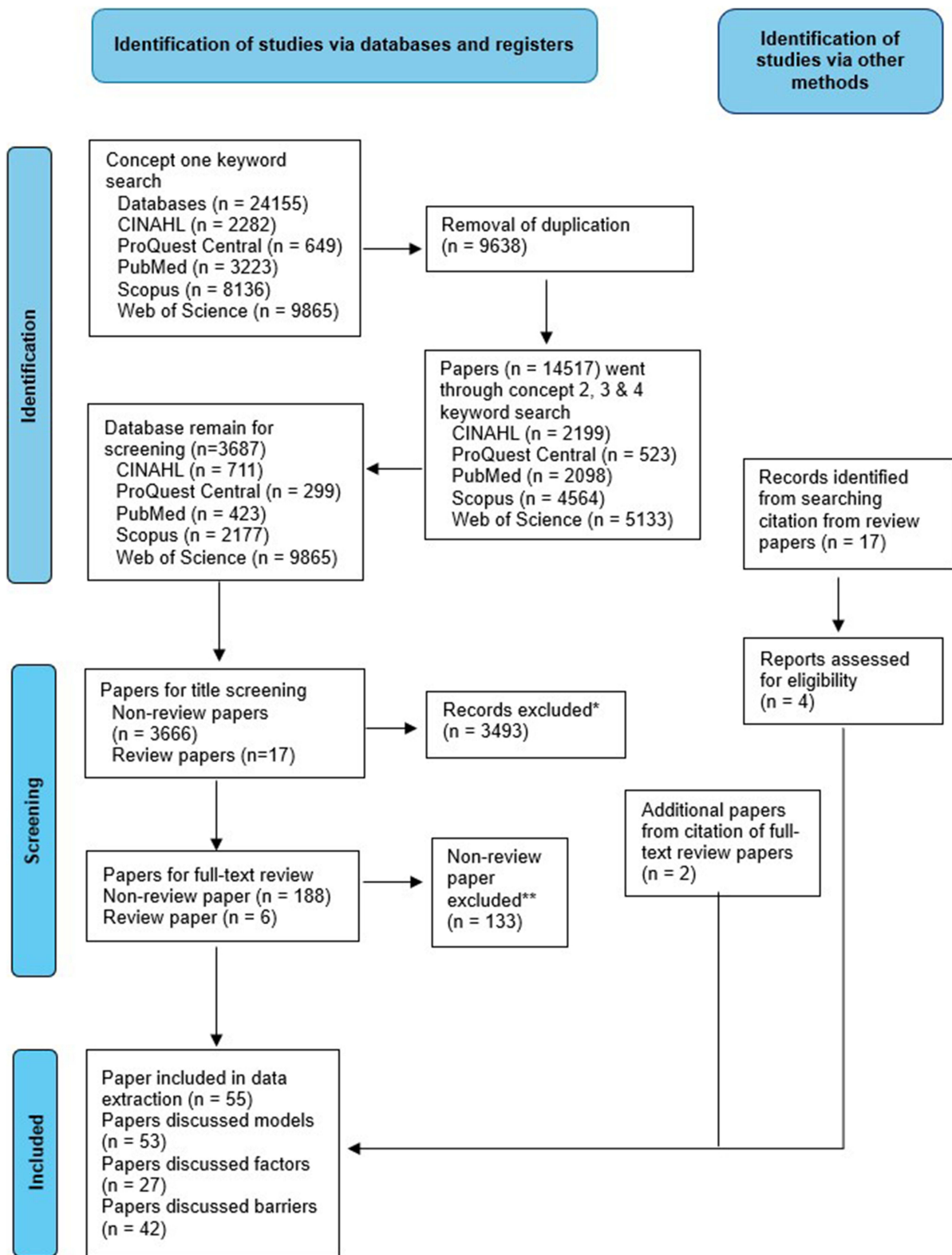


Figure 1 PRISMA Flow Diagram. *Main reasons for exclusion: Focus on hospital settings. **Main reasons for exclusion: Focus on benefits (not models).

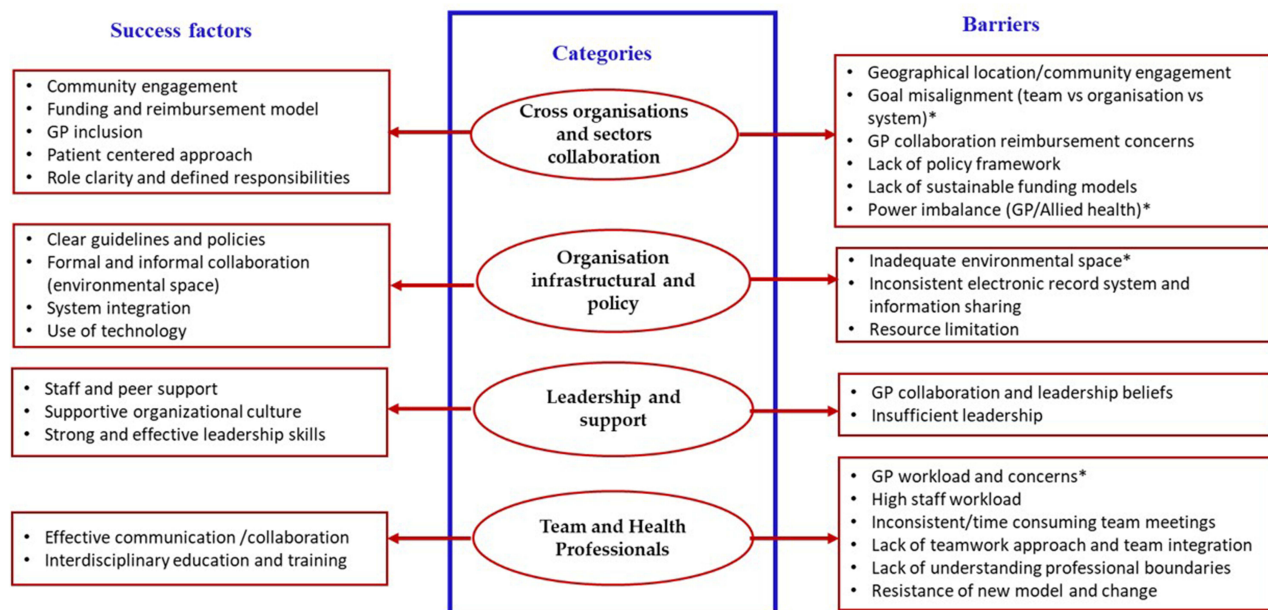


Figure 2 Influencing factors for MTBC. *Goal misalignment presents significant barriers to effective collaboration in healthcare, as conflicting individual and team goals, legislative requirements, and patient care objectives often arise. *Power imbalances rooted in traditional hierarchical models between GPs and allied health professionals complicate collaboration, creating obstacles to achieving shared goals and delivering optimal care.

education plays a crucial role in overcoming these challenges by training healthcare professionals together, which enhances teamwork and improves healthcare delivery.^{4,42,43,55,63,65–67}

The environmental context, including working conditions and available resources, also plays a pivotal role in supporting collaboration.^{42,43,63} Adequate resources and regular team meetings are essential for fostering effective communication and coordinated care.^{4,42,43,55,63,65–67}

General Practitioners (GPs) face numerous challenges, including heavy workloads, leadership responsibilities, burnout, time constraints, and limited community networks, which can undermine their ability to collaborate effectively.^{21,59–62,71} Trust in staff and shared perspectives on collaboration can strengthen GP leadership and their effectiveness in team-based settings.^{21,37,45,47,49,50,55,62,64,68,72,73} Addressing GP recruitment and retention can empower GPs and ensure sustainability in the primary care sector.^{40,47,50,55,62,64,71,72,74}

Power imbalances rooted in traditional hierarchical models between GPs and allied health professionals complicate collaboration, creating obstacles to achieving shared goals and delivering optimal care.^{21,42,47,62,64,67,68,72}

By further comparing the factors and barriers, four categories emerged to collectively accommodate the factors that influenced the success of MTBC, as illustrated in [Figure 2](#).

Core Components of a MTBC Model

A multidisciplinary team-based care model was designed to deliver comprehensive patient-centred care by integrating expertise from various disciplines. Typically, teams regularly plan for patient care. Based on the 24 identified papers that discussed elements of various MTBC models (see [Figure 1](#) PRISMA diagram)^{4,11,21,36,39,41,43,45,47,50,54,55,58,59,64,72–80} eleven key components are illustrated in [Figure 3](#) with brief explanations provided below.

- 1) Collaborative communication strategies – Implementation of collaborative communication strategies such as regular interdisciplinary team meetings that enable integration, transparent, and timely communication among team members.
- 2) Collaborative team development and cohesion - Investment in collaborative team building initiatives to foster trust, mutual respect, and a cohesive, high-functioning team culture.

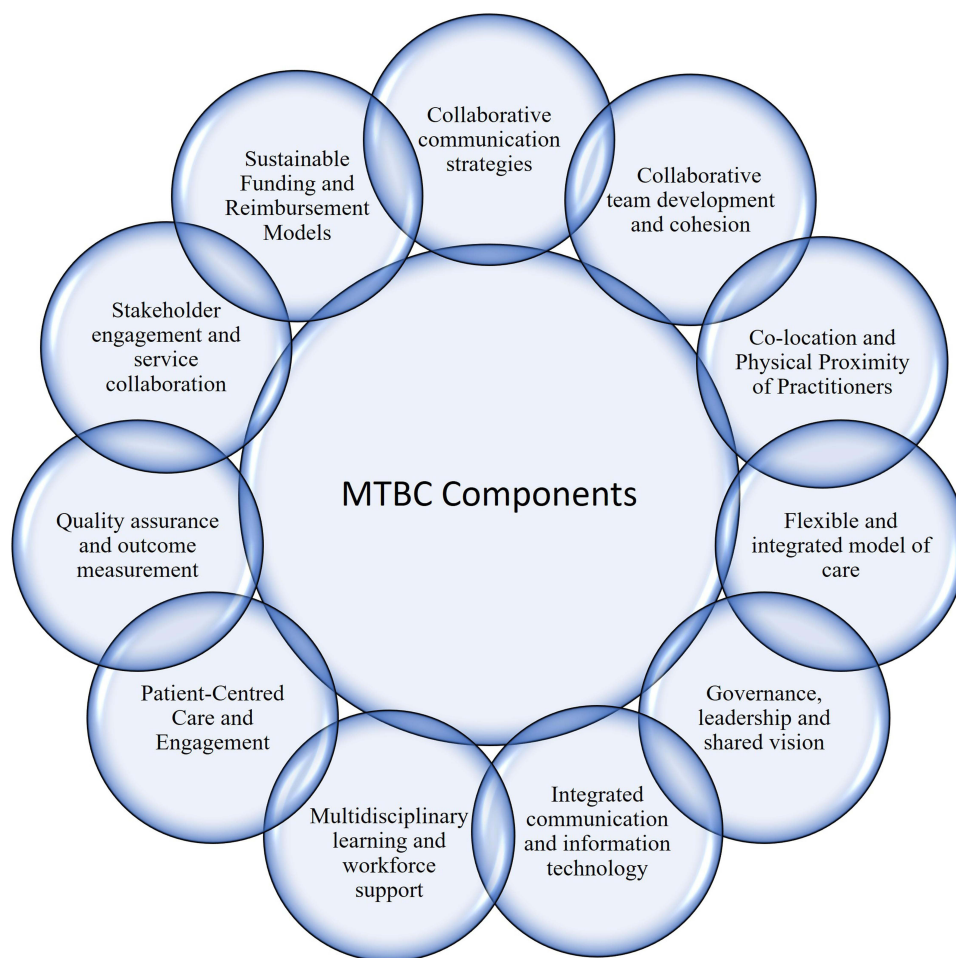


Figure 3 MTBC core components.

- 3) Co-location and Physical Proximity of Practitioners – Facilitation of more effective and immediate collaboration and coordination of care by considering the physical or environmental location of healthcare professionals.
- 4) Flexible and integrated model of care – Adoption of adaptable care models that are responsive to different social, policy, and community contexts, taking local needs into consideration and allowing for the engagement of practitioners and other healthcare providers and professionals.
- 5) Governance, leadership and shared vision – Establishment of a clear governance structure, shared goals, vision and decision-making, effective leadership, and developing a sense of belonging among staff.
- 6) Integrated communication and information technology – Utilisation of integrated information technologies and digital referral systems to ensure seamless access to patient records and data by team members.
- 7) Multidisciplinary learning and workforce support - Provision of interdisciplinary training opportunities, staff development, and support resources to foster effective collaborative practice across professional boundaries.
- 8) Patient-Centred Care and Engagement – Active involvement of patients in care planning and delivery, ensuring that care is tailored and responsive to individual circumstances.
- 9) Quality assurance and outcome measurement – developing quality indicators, metrics, and measures for outcomes, processes, and disease registries for follow-up and monitoring.
- 10) Sustainable Funding and Reimbursement Models – Developing sustainable financial structures that support team operations and patient care.
- 11) Stakeholder engagement and service collaboration – Strengthening stakeholder partnerships and collaborative working relationships across services.

To build collaborative teams, the following details should be considered:^{4,21,37,42,43,45,47,49,55,62–67,72,73}

- a. A culture of mutual respect and trust.
- b. Clear team structure and composition.
- c. Collaboration and working relationships between services.
- d. Fostering a sense of belonging within the team.
- e. Setting and respecting professional boundaries.
- f. Relaxation of traditional medical hierarchy models.
- g. Well defined roles and responsibilities for team members.

For a patient-centred approach and engagement, the following actions are also required:^{11,21,35–37,41,43,46–48,50,53,54,61,63,73,75,77,79}

- a. Active patient involvement.
- b. Coordination of care.
- c. Empowerment of patients in treatment.
- d. Cross-cultural sensitivity and tailored care approaches.
- e. Professional support in patient self-management.
- f. Case management to enhance patient support.
- g. Protect patient confidentiality.
- h. Enable information sharing.

Benefits of MTBC

A total of 37 papers discussed the strengths of MTBC papers discussed the strengths of multidisciplinary care.^{4,11,21,29,35–38,40–51,53–55,58–64,69,73,75–77,81,82} These benefits can be categorized in six domains as outlined in Figure 4.

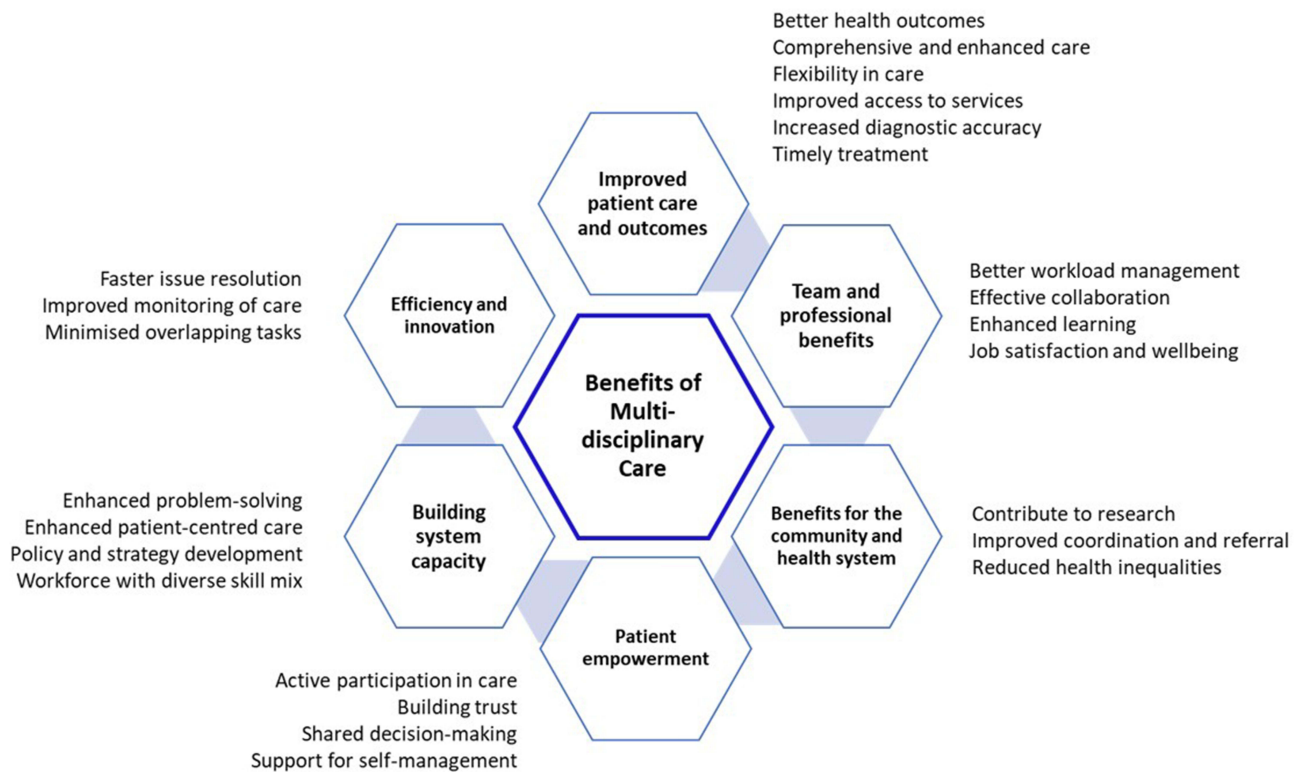


Figure 4 Benefits of multidisciplinary care.

Discussion

Through a systematic process, this study synthesised research evidence from the past 15 years, the current review highlighting the growing importance of applying multidisciplinary team concepts in the delivery of care and services in primary care settings. Previous systematic reviews confirmed that MTBC could improve patient health outcomes^{17,74} and service efficiency,¹⁵ better chronic disease management,¹³ and enhance continuity of care during the transition between primary and secondary tertiary settings.^{21,35,83} The current review identified additional benefits beyond patient and service provision. Specifically, MTBC can strengthen health service capacity to better meet the needs of patients and customers by enabling improved resource sharing and exchange of expertise.^{36–38,60,61,75,84} Moreover, an MTBC approach fosters innovation by reducing task duplication, facilitating faster problem solving, and improving monitoring of care.^{36,39,81}

Improving Skills and Capability in Better Patient Care

By encouraging collaboration among professionals with diverse skills from different primary and social care organisations, patient care can be designed and delivered in a more holistic manner which is facilitated by the timely and effective sharing of patient data.^{40,76,81,85} This improved timely access to patient data throughout the care process by different professional teams is said to indirectly advance research focusing on patient cohorts or population groups.^{11,41,42,60,81} However, the seamless sharing of data across disciplines can only be achieved with consistent electronic patient / health records and a functional and adaptable data management system supported by robust information technology.^{29,38,43,44} Furthermore, team members must have the skills to interpret unfamiliar forms of data or use the data to guide decision making and design patient care plans. Therefore, investing in developing these skills at the organisational and system levels is essential for health professionals to thrive in this new collaborative model.^{29,43,44} This commitment, in turn, helps reduce resistance to change while fostering greater acceptance and compliance among the staff.^{37,39,44,45,62,75,77}

Funding and Reimbursement

Healthcare organisations operate in a financially constrained environment, which limits their capacity to innovate and support new models of care, owing to rigid funding mechanisms that lack long-term sustainability.⁴⁴ The current review consistently highlights the need for dedicated funding and new funding models that support infrastructure development, team operations, patient care, and compensation for the time required by health professionals working within multidisciplinary teams.^{11,39,46,63,76,78} A comprehensive reimbursement model should compensate allied health professionals, general practitioners and other key primary health care professionals for a range of services, ensuring accessibility to care and covering administrative costs, such as digital technology and team collaboration.^{36,42,47} To maximise the efficiency of a new care model, additional funding is needed for new positions that lead or support smooth coordination and functioning of multidisciplinary teams, with a focus on addressing complex needs of patients rather than simply managing individual care episodes.^{47,64} Research has shown that flexible models are more responsive than rigid, fee-for-service structures.^{44,65} More research into what constitutes a sustainable funding and reimbursement model that supports MTBC across different healthcare systems, along with an understanding of commonalities and differences, would be valuable in guiding the development of MTBC.

Developing Mutual Understanding, Trust and Respect

Multidisciplinary teams foster “on the job” learning for their members, maximising support and skill development. This approach not only improves staff job satisfaction and well-being, but also enables better workload management by increasing efficiency.^{60,62,64} In a rapidly changing healthcare environment where the complexity of patient care and rising expectations are common challenges, upskilling and developing a diverse skill mix among health professionals is crucial for the sustainability of healthcare organisations and systems to meet the needs of the population.⁷⁵ A well-organised and collaborative multidisciplinary team provides a valuable platform for learning across different disciplines and skill sets.^{29,48–52,66,76,79,81,86} However, concerns about power imbalance, such as doctors assuming a more dominant role in decision-making compared to allied health professionals and others^{29,36,51,52,61,82,85} and the lack of trust between health professionals from different disciplines and service providers were also noted.^{38,64,67,68,76} Therefore, fostering cross-cultural learning and cultivating a collaborative and accepting culture across primary care, community and social care is essential.

The development of mutual understanding, respect, and trust among healthcare professionals is essential for effective collaboration and the quality of care provided.^{53–55,75} These qualities are cultivated through strong leadership, a supportive environment that encourages both ad hoc and routine communication, and a culture that promotes participatory action, shared decision-making, and collective goal-setting with a focus on patient-centred care.^{36,41,47,56,64} Trust within a team enhances willingness to share relevant information and engage in collaborative decision-making. It also fosters psychological safety by allowing individuals to express their opinions, offer suggestions, and challenge ideas without fear of judgment. This created an environment in which all the team members felt empowered and valued.^{43,77} Such openness and support are critical for effective problem solving and decision-making, ultimately leading to improved patient outcomes.^{57,58}

Governance, Leadership, Team Structure and Role Clarity

The structural components of interdisciplinary collaboration are crucial to the overall effectiveness of the MTBC approach. Key factors such as governance, leadership, team structure, and role clarity are instrumental in shaping the functionality of the team and the efficiency with which patient care is provided.^{43,59,62} A well-defined governance framework offers essential guidance for decision-making, accountability, and the distribution of responsibilities within the team.³⁶ This structure ensures that each team member is aware of who is responsible for specific decisions, the processes through which decisions are made, and a clear care plan,^{36,79} thereby reducing the likelihood of confusion and conflict. Investing in leadership capacity that enables MTBC is crucial for enhancing team cohesion, improving patient outcomes, and supporting the integration of care across settings.^{11,38,46,51} “Equally significant is the precise definition of roles within the team, as healthcare professionals often come from diverse educational backgrounds, each bringing distinct professional language, expertise, and approaches to care. These differences can create uncertainty regarding roles and boundaries, which may lead to role overlap, miscommunication, and diminished team effectiveness, ultimately compromising the collaborative process.^{43,63,69–71,73,79} This clarity enhances both individual and collective performance, ensuring that the team functions cohesively and optimally in delivering patient-centred care.⁸⁰

Proposing a MTBC Enabling Model

Based on an understanding of the key factors that influence the success of multidisciplinary team-based care, a model for enabling MTBC is proposed, as shown in Figure 5. This model uses a patient-centred approach as the guiding principle in

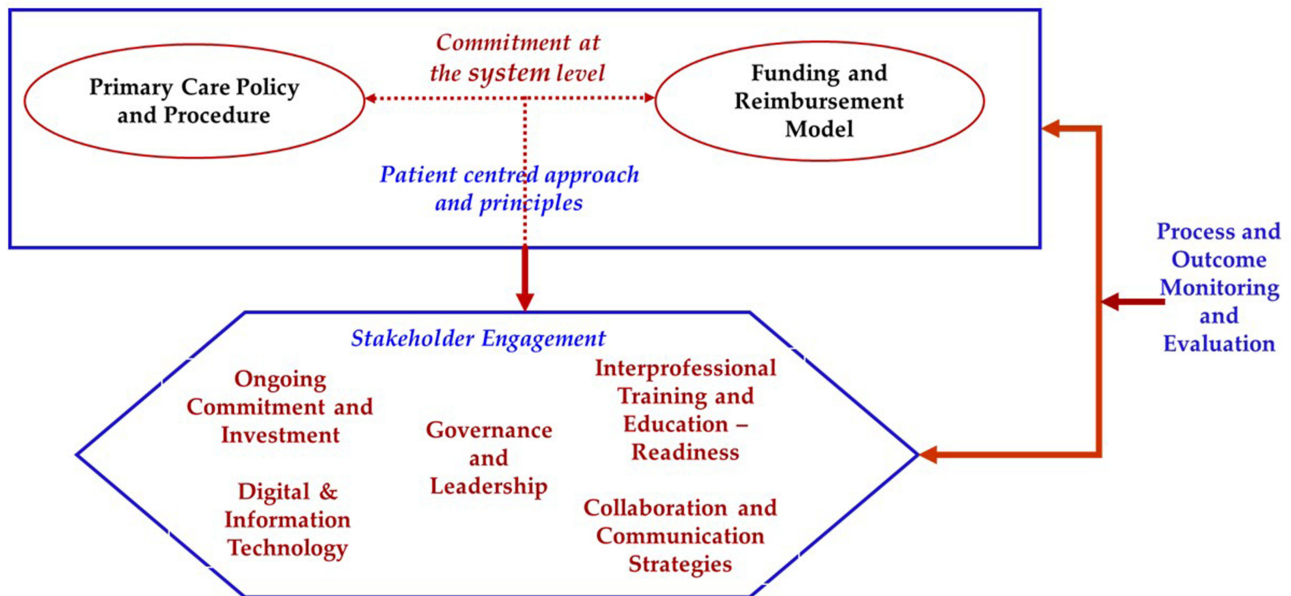


Figure 5 A proposed MTBC enabling model.

the design and funding of multidisciplinary primary care teams at the system level, with stakeholder engagement as the key strategy to enable effective MTBC across organisations within primary care, community, and social care settings. The proposed model emphasises the integration of key factors such as communication, collaboration, leadership and governance, patient-centred care, flexibility, and the development of a sustainable funding model with flexible reimbursement options. These components are critical for maintaining the longevity of the model and supporting the key success factors and elements of the MTBC.

Effective communication plays a central role, emphasising the importance of clear and thorough information exchange between team members within a patient-centred approach. A consistent information technology system is essential for effective communication in a multidisciplinary model. Shared patient records and a digital referral system allow timely, coordinated care, while integrated information systems support regular interdisciplinary meetings and transparent decision making.^{1,21} Leadership and governance are fundamental to the model's success, with a clear governance framework that aligns shared goals and fosters a supportive participatory environment. Successful leadership encourages mutual respect and trust, breaks down traditional hierarchical structures, and promotes collaboration and team cohesion.^{12,58,72}

The model must also be flexible and adaptable to respond to local needs and policy changes, while ensuring care coordination across providers. Continuous professional development and multidisciplinary learning equipment teams to deliver high-quality services.⁷⁵ Effective stakeholder engagement strengthens service integration, reduces isolation, and fosters mutual reliance between team members and services.^{15,37} To ensure the effectiveness of the model, it should be guided by clear metrics and quality control measures, including disease registries for follow-up and patient monitoring, to ensure ongoing adaptability, efficiency, and sustainability. By integrating all key elements into a specific primary care context, the successful implementation of an adaptable MTBC model may lead to improved service delivery and outcomes in primary care.

Implications

The scoping review identified successful approaches and barriers to MTBC implementation in primary care contexts. The key factors that affect the MTBC model are applicable across sectors and organisations. MTBC can improve patient care and outcomes by fostering collaboration between general practitioners and diverse professionals, thus benefiting both patients and healthcare providers. The proposed MTBC-enabling model empowers patients, enhances the system capacity and efficiency, and drives innovation, ultimately contributing to stronger health systems and better community health. This study will inform further work on identifying the factors limiting the adoption of MTBC in general practice and the development of a sustainable and scalable model or models of MTBC aligned with relevant strategies and funding imperatives.

Limitations

Although the scoping review used a rigorous and transparent approach, systematically reviewing relevant studies and offering a critical evaluation and analysis of the results, it did not assess the quality of the articles. In addition, the scoping review potentially excluded relevant articles that were not published in English and those potentially missing valuable cultural perspectives. Overall, this review was useful in identifying the existing knowledge of multidisciplinary based team models in the primary care context which may not be applicable in hospital and acute settings.

Conclusion

This scoping review identified approaches and innovations in operationalising multidisciplinary team-based care (MTBC) in primary care settings, and the factors impacting MTBC success. An MTBC approach to the provision of primary care services is likely to affect access and equity for communities across all regions (remote, rural, regional, and metropolitan). The community's need for primary care services is growing, the number of general practitioners is decreasing, particularly in rural and regional areas, and the hospital capacity is under pressure. By changing the skills mix in the primary care setting, the MTBC approach has proven effective in improving care processes, patient experience,

service outcomes, team collaboration, and staff job satisfaction, thus enabling better preventive care and chronic disease management.

Data Sharing Statement

Data are available upon reasonable request to the corresponding author.

Ethical Approval

Ethical approval was not required for this study.

Patient and Public Involvement

Patients and the public were not involved in this research in any way.

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Disclosure

The authors report no conflicts of interest in this work.

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