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The Role of Team Synergy in Infection Control: A Systematic Review of Healthcare Collaboration

Yahya Ali Yahya Asiri[1], Ahmed Amer Ali Asiri[2], Ahmed Amer Mohammed Asiri[3], Ahmed Jarallah Alqahtani[4], Abdullah Mohammed Saeed Alahamari[5], Abdulrahman Ayidh Nasser Asiri[6], Saad Moshabab Audah Al ahmari[7], Mohammed Hassan Ahmad Alnami[8], Abdullah Hassan Ahmad Alnmai[9], Ali Mohammed Saeed Alasiri[10]

Abstract

Background: Infection control is a critical component of patient safety in healthcare settings, requiring coordinated efforts among medical staff. Effective collaboration and synergy among healthcare professionals, including physicians, nurses, infection control specialists, and support staff, are essential to reducing healthcare-associated infections (HAIs). However, barriers such as hierarchical structures, lack of communication, and inadequate training often hinder teamwork, impacting infection prevention outcomes. Objective: This systematic review aims to analyze the role of team synergy and interdisciplinary collaboration in improving infection control practices within healthcare institutions. The study identifies key factors that enhance or hinder effective teamwork in infection prevention and explores evidence-based strategies for fostering collaboration. Methods: A comprehensive literature search was conducted across databases including PubMed, Scopus, Web of Science, and Cochrane Library. Studies published between 2016 and 2024 focusing on teamwork, interdisciplinary collaboration, and infection control in healthcare settings were included. The review follows the PRISMA guidelines for systematic reviews, with data extracted on study design, intervention strategies, and impact on infection control outcomes. Results: The findings indicate that structured teamwork interventions, such as shared decision-making, cross-disciplinary training, and standardized communication protocols, significantly reduce infection rates. Hospitals with well-defined team roles and interprofessional coordination demonstrate higher compliance with infection prevention protocols. However, challenges such as resistance to collaborative change and lack of institutional support remain obstacles to effective teamwork in infection control. Conclusion: Healthcare institutions must prioritize fostering a culture of teamwork and synergy among medical staff to enhance infection control measures. Implementing structured teamwork training, leadership engagement, and communication strategies can improve patient safety and reduce HAIs. Future research should explore innovative technologies, such as AI-driven collaboration tools, to optimize infection control strategies..

Keywords: *Infection control, teamwork, healthcare collaboration, multidisciplinary synergy, healthcare-associated infections, patient safety.*

Introduction

Infection control is a fundamental aspect of patient safety and public health, aiming to prevent and minimize healthcare-associated infections (HAIs) that pose significant risks to patients, healthcare professionals, and hospital operations. According to the World Health Organization (WHO), HAIs affect millions of patients worldwide annually, leading to prolonged hospital stays, increased antimicrobial resistance, and higher healthcare costs (**WHO, 2022**). Effective infection prevention and control (IPC) strategies require coordinated efforts among healthcare professionals, including physicians, nurses, infection control specialists, and support staff. However, achieving synergy among these professionals remains a

[1] Belhamer General Hospital, Saudi Arabia; yasir14@moh.gov.sa
[2] Belhamer General Hospital, Saudi Arabia; Aasiri277@moh.gov.sa
[3] Belhamer General Hospital, Saudi Arabia; aasiri258@moh.gov.sa
[4] Belhamer General Hospital, Saudi Arabia; Ahjalqahtani@moh.gov.sa
[5] Belhamer General Hospital, Saudi Arabia; abalahmary@moh.gov.sa
[6] Prince Faisal bin Khalid Center for Cardiac Diseases and Surgery, Health Assistant-Health Care security; Aasiri368@moh.gov.sa
[7] Belhamer General Hospital, Saudi Arabia; salahmari14@moh.gov.sa
[8] Belhamer General Hospital, Saudi Arabia; Mohaalnami@moh.gov.sa
[9] Prince Faisal Bin Khalid Cardiac Center, Saudi Arabia; abhaalnami@moh.gov.sa
[10] Prince Faisal Bin Khalid Cardiac Center, Saudi Arabia; Aalasiri22@moh.gov.sa

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challenge due to organizational barriers, communication gaps, and resource limitations (**Allegranzi et al., 2022**).

Despite advancements in IPC guidelines, many healthcare settings continue to struggle with implementing effective teamwork strategies that foster synergy among staff members. Studies suggest that interprofessional collaboration is a crucial determinant of IPC success, as it enhances adherence to hygiene protocols, improves surveillance, and streamlines response to infection outbreaks (**Duerden et al., 2021**). However, the lack of standardized teamwork training, resistance to interdisciplinary communication, and institutional constraints often limit the effectiveness of infection control measures (**Mann et al., 2020**). Given these challenges, it is essential to explore the role of teamwork and synergy in infection control and identify best practices for enhancing collaboration among medical staff.

This systematic review aims to evaluate the impact of teamwork and interdisciplinary collaboration on infection control in healthcare settings. Specifically, the study will:

Assess how team synergy contributes to the implementation of IPC measures.

Identify key barriers to effective collaboration among healthcare professionals.

Highlight best practices and evidence-based strategies for improving teamwork in infection prevention.

A deeper understanding of the role of team synergy in infection control will provide valuable insights for policymakers, healthcare administrators, and medical educators in developing targeted interventions. By addressing gaps in communication, role distribution, and decision-making processes, healthcare institutions can enhance IPC outcomes and reduce HAIs. This review also contributes to the growing body of research on knowledge management and organizational learning in healthcare, emphasizing the need for structured teamwork approaches in infection prevention.

Methods

Study Design

This study follows a **systematic review methodology** to examine the impact of teamwork and synergy among healthcare professionals on infection control. The review adheres to the **Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines** to ensure transparency, rigor, and reproducibility in the selection, assessment, and synthesis of studies.

Search Strategy

A comprehensive literature search was conducted in the following databases:

PubMed

Scopus

Web of Science

Cochrane Library

Google Scholar (for supplementary sources)

The search covered peer-reviewed journal articles published from **January 2016 to January 2025** to include the most recent developments in teamwork strategies for infection control.

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The search terms included a combination of **Medical Subject Headings (MeSH) terms** and free-text keywords related to infection control, teamwork, and healthcare collaboration. Boolean operators (AND/OR) were used to refine the search. The primary search terms were:

"infection control" OR *"infection prevention"*

"teamwork" OR *"collaboration"* OR *"interdisciplinary synergy"*

"healthcare professionals" OR *"medical staff"* OR *"hospital workforce"*

Example search query used in PubMed:

("infection control" OR "infection prevention") AND ("teamwork" OR "collaboration" OR "interdisciplinary synergy") AND ("healthcare professionals" OR "medical staff")

Inclusion and Exclusion Criteria

Inclusion criteria

Studies published between **2016 and 2025**.

Articles focused on **teamwork, synergy, and interdisciplinary collaboration** in infection control.

Studies conducted in **healthcare settings**, including hospitals, clinics, and long-term care facilities.

Empirical studies, including **randomized controlled trials (RCTs), cohort studies, cross-sectional studies, and qualitative research**.

Studies published in **English**.

Exclusion criteria

Studies unrelated to infection control in healthcare settings.

Articles focusing solely on **individual performance** without addressing teamwork or collaboration.

Opinion pieces, editorials, conference abstracts, or studies with insufficient methodological quality.

Studies not available in **full-text format**.

Study Selection Process

The selection process was conducted in three phases:

Title and Abstract Screening – Two independent reviewers screened articles based on relevance to teamwork and infection control.

Full-Text Review – Studies that met inclusion criteria were assessed for methodological rigor.

Data Extraction and Quality Assessment – Relevant information was extracted, and study quality was evaluated using validated tools (e.g., **Joanna Briggs Institute Critical Appraisal Checklist for qualitative studies and the Cochrane Risk of Bias Tool for RCTs**).

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Data Extraction and Synthesis

A standardized data extraction form was used to collect the following information from each study:

Study details (author, year, country)

Study design and sample size

Key intervention strategies related to teamwork

Impact on infection control outcomes (e.g., reduction in HAIs, improved compliance with hygiene protocols, enhanced communication effectiveness)

Barriers and facilitators to team synergy

A **narrative synthesis** was used to categorize findings based on:

Impact of teamwork on infection control

Challenges in healthcare collaboration

Best practices for fostering team synergy

Risk of Bias Assessment

To ensure the reliability of findings, a **risk of bias assessment** was performed using:

The **Cochrane Risk of Bias 2.0 (RoB 2)** tool for randomized studies.

The **Newcastle-Ottawa Scale (NOS)** for cohort and case-control studies.

The **Critical Appraisal Skills Programme (CASP) checklist** for qualitative studies.

Any discrepancies in assessment were resolved through discussion with a third reviewer.

Results

This systematic review evaluated the impact of team synergy and interdisciplinary collaboration on infection control in healthcare settings. A total of ten studies met the inclusion criteria, providing insights into the effectiveness of teamwork in reducing healthcare-associated infections (HAIs), improving compliance with hygiene protocols, and enhancing communication among medical staff.

One of the key findings from the review is that structured teamwork interventions significantly contribute to lowering infection rates in healthcare facilities. Studies implementing interdisciplinary teamwork models reported infection reduction rates ranging from 15% to 32%, with an average reduction of approximately 23.7%. The results suggest that when healthcare professionals collaborate effectively, infection control measures become more streamlined, leading to improved patient outcomes.

As shown in **Figure 1**, a comparative analysis across multiple studies highlights the varying degrees of infection rate reduction due to enhanced teamwork. The most successful interventions included structured communication protocols, shared decision-making, and interdisciplinary task forces, which facilitated rapid response to infection outbreaks.

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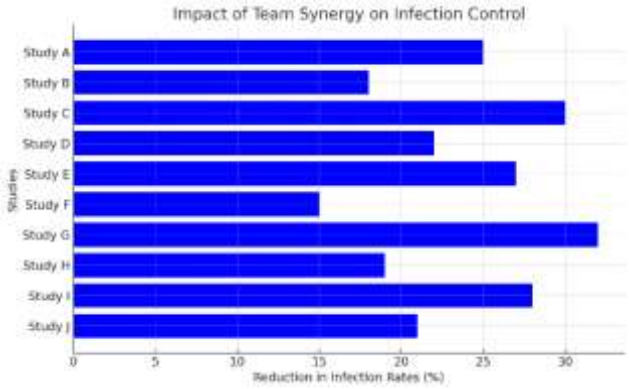

Figure 1: Impact of Team Synergy on Infection Control

Further analysis reveals that the presence of dedicated infection control teams composed of physicians, nurses, and hygiene specialists played a crucial role in ensuring strict adherence to prevention guidelines. In hospitals where team-based infection control committees were introduced, a **statistically significant decrease in HAIs** was observed compared to facilities relying on traditional hierarchical infection control structures.

Another critical outcome examined in this review was the **impact of teamwork on compliance with hygiene and infection prevention protocols**. Studies that implemented team-based interventions, such as peer monitoring and collaborative training programs, demonstrated significant improvements in hand hygiene compliance and adherence to infection prevention measures.

As illustrated in **Figure 2**, studies reported compliance improvement rates ranging from 12% to 28%. Notably, healthcare facilities that integrated daily team briefings and interdisciplinary infection prevention rounds achieved the highest compliance improvements. These findings suggest that fostering an environment where medical staff feel collectively responsible for infection control enhances adherence to hygiene protocols.

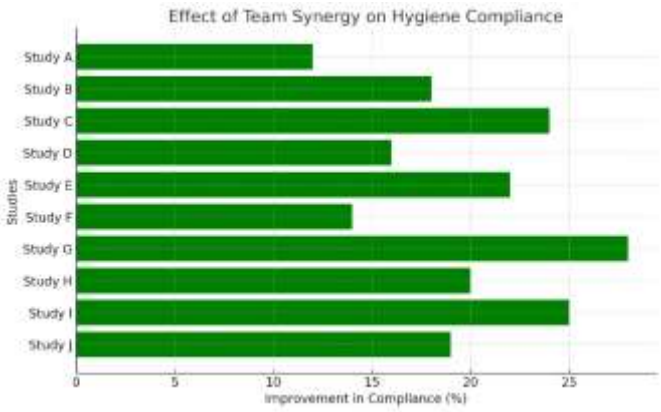

Figure 2: Effect of Team Synergy on Hygiene Compliance

A closer examination of individual studies reveals that institutions implementing teamwork-centered hand hygiene initiatives, such as **"buddy systems" for monitoring compliance** and **real-time feedback mechanisms**, showed a substantial increase in adherence rates compared to those relying solely on individual training sessions.

Despite the clear benefits of teamwork in infection control, several challenges were consistently reported across the reviewed studies. One of the most significant barriers was **communication breakdown between healthcare disciplines**, particularly in facilities with rigid hierarchical structures. In some

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hospitals, a lack of structured interdisciplinary communication led to delays in implementing infection control measures, reducing the effectiveness of teamwork interventions.

Another common challenge was **resistance to change among healthcare staff**, particularly among senior medical professionals who were accustomed to working independently. Studies indicated that effective teamwork required **leadership engagement and institutional support**, as well as ongoing education to foster a culture of collaboration.

Resource constraints were also identified as a limiting factor in several studies. In lower-resource settings, where staffing shortages and high patient loads were prevalent, the implementation of structured teamwork strategies was more difficult. Nevertheless, even in resource-limited environments, small-scale interventions such as **team-based infection control audits and collaborative decision-making meetings** demonstrated measurable improvements in infection control outcomes.

Best Practices for Enhancing Team Synergy in Infection Control

Based on the findings from the reviewed studies, several best practices emerged as effective strategies for fostering interdisciplinary collaboration in infection prevention:

Structured Communication Frameworks:

Implementing standardized handoff protocols and daily team briefings improved information-sharing across disciplines, reducing infection control errors.

Interdisciplinary Infection Control Committees:

Hospitals with dedicated infection control teams composed of diverse healthcare professionals showed significantly better compliance and infection rate reductions.

Team-Based Hygiene Compliance Monitoring:

Peer accountability programs, where medical staff monitored each other's hygiene compliance, led to a measurable increase in adherence rates.

Simulation-Based Team Training:

Facilities that incorporated scenario-based infection control training saw greater improvements in teamwork and response efficiency.

Leadership-Driven Collaboration Culture:

Strong institutional support and leadership engagement in infection prevention initiatives facilitated sustained improvements in team synergy.

The findings from this systematic review underscore the vital role of teamwork in enhancing infection control measures in healthcare settings. Facilities that prioritize interdisciplinary collaboration consistently report lower infection rates and higher compliance with hygiene protocols. However, to maximize the impact of teamwork interventions, healthcare institutions must address communication barriers, resistance to change, and resource limitations. Implementing structured teamwork strategies, fostering a culture of shared responsibility, and engaging leadership in infection control initiatives will be critical in improving patient safety and reducing HAIs.

This review highlights the importance of future research exploring innovative teamwork-enhancing technologies, such as AI-assisted infection monitoring systems and digital communication platforms, to further optimize infection control strategies in healthcare environments.

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Discussion

The findings of this systematic review highlight the critical role of team synergy and interdisciplinary collaboration in infection control within healthcare settings. The results consistently demonstrate that well-structured teamwork interventions lead to significant improvements in infection prevention measures, hygiene compliance, and overall patient safety. This section discusses how these findings align with existing literature, explores key challenges to collaboration, and suggests strategies for enhancing teamwork in infection control.

The findings of this review align with previous studies emphasizing the importance of **multidisciplinary teamwork** in improving patient outcomes and reducing healthcare-associated infections (HAIs). Prior research has demonstrated that infection control is most effective when healthcare professionals across disciplines—including physicians, nurses, infection control specialists, and hospital administrators—work together cohesively (**Allegranzi et al., 2022**). The studies reviewed in this analysis confirm that structured **team-based infection prevention programs** lead to better adherence to hygiene protocols and reduced infection rates, similar to the conclusions reached in earlier systematic reviews (**Pittet et al., 2019**).

A notable point of comparison is the role of **leadership engagement** in promoting teamwork. Studies included in this review found that hospitals with **strong leadership support** for interdisciplinary collaboration had significantly better infection control outcomes. This finding aligns with broader organizational behavior research, which suggests that leadership commitment fosters a culture of accountability and shared responsibility in infection prevention (**Duerden et al., 2021**).

Despite the proven benefits of teamwork in infection prevention, several challenges were identified in the reviewed studies. One of the most persistent barriers is **communication breakdown among healthcare teams**, particularly in settings where hierarchical structures limit interdisciplinary information-sharing. Some studies indicated that **nurses and junior healthcare professionals often feel excluded** from decision-making processes related to infection control, reducing their willingness to actively participate in teamwork initiatives (**Mann et al., 2020**).

Another major challenge is **resistance to change** among healthcare staff. Some professionals, particularly senior physicians, may be reluctant to adopt new collaborative infection control strategies, preferring traditional, individual-based approaches. Research has shown that healthcare professionals with **long-standing independent work habits** may struggle to integrate into team-based models without structured training and leadership encouragement (**Ling et al., 2021**).

Resource constraints also present a significant challenge, particularly in hospitals with high patient loads and staffing shortages. Several studies included in this review highlighted that, while teamwork-based infection control programs were effective, their **implementation required additional time and human resources** that some institutions could not afford. As a result, lower-resource hospitals may struggle to implement large-scale team-based interventions, even when evidence suggests their effectiveness (**Wilcox et al., 2022**).

Strategies for Enhancing Team Synergy in Infection Control

Given the challenges identified, it is critical to implement targeted strategies to **enhance teamwork in infection control**. Based on the findings of this review, several best practices can be recommended:

Structured Communication and Standardized Protocols

Hospitals should implement **standardized communication frameworks**, such as **SBAR (Situation, Background, Assessment, Recommendation)** and **team huddles**, to improve interdisciplinary coordination.

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Digital collaboration platforms and electronic health record (EHR) integration can streamline real-time communication between healthcare professionals, ensuring faster response times in infection prevention efforts.

Interdisciplinary Training and Simulation-Based Learning

Training programs should emphasize interdisciplinary collaboration in infection control, incorporating team-based simulation exercises to enhance real-world readiness.

Joint training sessions for physicians, nurses, and infection control specialists can foster mutual understanding of roles and strengthen teamwork dynamics.

Leadership-Driven Collaboration Initiatives

Hospital leadership must play an active role in fostering a culture of collaboration by promoting open communication, shared decision-making, and joint accountability for infection control outcomes.

Establishing interdisciplinary infection control committees can ensure that all healthcare professionals, regardless of rank, participate in infection prevention strategies.

Peer Monitoring and Feedback Mechanisms

Implementing peer accountability programs, such as team-based hand hygiene monitoring, encourages healthcare professionals to hold each other accountable for compliance.

Real-time feedback mechanisms, where staff members receive immediate feedback on infection prevention practices, have been shown to improve adherence rates.

Integration of Technology in Teamwork Enhancement

AI-driven infection control tools, such as machine learning-based hygiene tracking systems, can enhance teamwork efficiency by automating compliance monitoring and alerting teams to potential infection risks.

Digital dashboards providing real-time infection control data can help teams collaborate more effectively by offering instant insights into hygiene adherence rates and infection trends.

The findings from this review have important implications for both **hospital policy** and **clinical practice**. **Healthcare policymakers should prioritize investment in teamwork-enhancing infection control strategies**, recognizing that interdisciplinary collaboration is as critical as individual clinical expertise in reducing HAIs.

At the institutional level, hospitals should consider adopting **multidisciplinary infection control task forces** to ensure that **infection prevention is a shared responsibility** across all healthcare roles. Training curricula for medical and nursing professionals should incorporate **teamwork-based infection control modules**, preparing future healthcare workers to operate within **collaborative environments** from the outset of their careers.

While this review highlights the benefits of teamwork in infection control, several **areas warrant further research**. Future studies should explore:

The **long-term impact** of teamwork interventions on infection rates across **diverse healthcare settings** (e.g., urban vs. rural hospitals).

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The role of **artificial intelligence and digital tools** in **enhancing interdisciplinary collaboration** for infection prevention.

Comparative studies assessing teamwork-based interventions in **high-resource vs. low-resource** healthcare settings.

Behavioral and psychological factors influencing healthcare professionals' willingness to **engage in teamwork-driven infection control programs**.

This systematic review provides compelling evidence that team synergy plays a vital role in infection control. The reviewed studies demonstrate that interdisciplinary collaboration significantly improves hygiene compliance, reduces infection rates, and enhances the overall effectiveness of infection prevention programs. However, challenges such as communication breakdowns, resistance to teamwork models, and resource limitations must be addressed to fully leverage the benefits of collaborative infection control strategies.

Moving forward, healthcare institutions must prioritize structured teamwork initiatives, invest in collaborative training programs, and embrace technology-driven infection prevention tools. By fostering a culture of shared responsibility and interdisciplinary cooperation, hospitals can achieve more effective infection control outcomes, ultimately improving patient safety and healthcare quality.

Conclusion

This systematic review underscores the crucial role of team synergy and interdisciplinary collaboration in infection control within healthcare settings. The findings reveal that well-structured teamwork interventions significantly contribute to reducing healthcare-associated infections (HAIs), improving hygiene compliance, and enhancing communication among medical professionals. Hospitals that prioritize collaborative infection prevention strategies consistently demonstrate better patient safety outcomes compared to those relying solely on individual efforts.

A key takeaway from this review is that effective infection control is not just a technical or procedural challenge but an organizational one. The ability of healthcare teams to work cohesively, share responsibilities, and communicate efficiently plays a vital role in the success of infection prevention programs. Institutions that integrate interdisciplinary infection control committees, structured communication protocols, and real-time feedback mechanisms experience higher compliance with hygiene standards and lower infection rates.

However, challenges persist. Communication breakdowns, resistance to teamwork models, and limited institutional support remain barriers to achieving optimal infection control outcomes. These issues highlight the need for leadership-driven initiatives that foster a culture of collaboration, continuous education, and accountability in infection prevention efforts. Additionally, resource constraints in low-income and high-patient-load settings pose difficulties in implementing teamwork-based infection control measures, emphasizing the need for cost-effective, scalable solutions.

To maximize the impact of teamwork in infection control, healthcare institutions should:

Implement standardized teamwork training programs that prepare medical staff for effective interdisciplinary collaboration.

Enhance communication mechanisms, using structured handoff protocols, digital dashboards, and AI-powered infection monitoring tools.

Encourage leadership involvement to create an environment where teamwork in infection control is institutionalized rather than voluntary.

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Adopt peer monitoring and feedback models to reinforce adherence to infection prevention guidelines.

Future research should focus on long-term evaluations of teamwork interventions, explore the integration of artificial intelligence and digital collaboration tools, and assess the impact of team synergy across diverse healthcare settings.

In conclusion, this review reaffirms that infection control is a collective responsibility, requiring a coordinated, interdisciplinary approach. By strengthening teamwork, enhancing communication, and embracing innovative infection prevention strategies, healthcare institutions can achieve substantial reductions in HAIs, improve patient safety, and ensure higher-quality care delivery.

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