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### **Abstract:**

Accurate diagnosis and optimal patient safety are fundamental goals of healthcare. While individual teams play crucial roles, effective collaboration across disciplines is imperative. This paper examines the roles and challenges of key clinical teams Laboratory, Anesthesia, Radiology, Nursing, Health Assistant, and Pharmacy. It identifies strategies to strengthen interdisciplinary collaboration and analyzes their impact on diagnostic accuracy, patient safety, and quality of care. This review examines strategies shown to enhance collaboration between key teams like Laboratory, Radiology, Nursing, Anesthesia, Health Assistants and Pharmacy. It also analyzes peer-reviewed studies evaluating the impact of targeted interprofessional collaboration approaches on team dynamics and identifies qualitative methods to explore underlying contextual factors.

A literature search was conducted in PubMed, CINAHL, and Web of Science databases using keywords like "interdisciplinary collaboration", "diagnostic accuracy", "patient safety", "clinical teams". Relevant articles published between 2015-2022 were reviewed for each clinical team's

functions, collaboration barriers, and improvement strategies. Credible reports from WHO, Joint Commission and professional bodies supplemented the findings.

The Laboratory team plays a vital role in disease diagnosis and treatment monitoring through clinical tests and analyses. However, lack of timely communication between Laboratory and clinical teams can delay diagnoses or treatment plans. The Anesthesia team ensures patient safety and comfort during medical/surgical procedures through monitoring, airway management and administration of anesthesia.

The Nursing team is central to continuous monitoring, medication administration and health education of patients. However, nurse understaffing and ineffective shift-to-shift handoffs challenge the delivery of safe, quality care. Health Assistants play a supportive role through basic patient assessments, sample collection and ward duties.

In summary, This review highlights the crucial, yet interdependent roles of key clinical teams in healthcare delivery. Strategies like multidisciplinary rounds, shared documentation systems and structured communication protocols can strengthen teamwork dynamics and information flow. Ultimately, interdisciplinary collaboration is fundamental to enhancing quality and safety in healthcare.

To conclude, diagnostic challenges today span multiple specialties and demand a unified, well-orchestrated response from Laboratory, Radiology, Anesthesia, Nursing and other groups. The paper's overarching message is clear - by coming together through targeted collaboration strategies, our collective efforts hold immense promise to advance diagnostic accuracy, patient safety and healthcare quality overall. Moving forward in a spirit of partnership will undoubtedly serve our patients and professions

### 1.Introduction:

Accurate diagnosis and optimal patient safety are fundamental goals of healthcare. While individual teams play crucial roles, effective collaboration across disciplines is imperative. This paper examines the roles and challenges of key clinical teams - Laboratory, Anesthesia, Radiology, Nursing, Health Assistant, and Pharmacy. It identifies strategies to strengthen interdisciplinary collaboration and analyzes their impact on diagnostic accuracy, patient safety, and quality of care.

### 2.Literature review:

Effective collaboration among clinical teams is imperative for delivering safe, high-quality healthcare. This review examines strategies shown to enhance collaboration between key teams like Laboratory, Radiology, Nursing, Anesthesia, Health Assistants and Pharmacy. It also analyzes peer-reviewed studies evaluating the impact of targeted interprofessional collaboration approaches on team dynamics and identifies qualitative methods to explore underlying contextual factors. Finally, potential implementation challenges are discussed.

## Some additional strategies that can be employed to enhance collaboration among clinical teams include:

Interdisciplinary training programs: Joint training opportunities where teams learn about each other's roles and workflows can foster relationships and appreciation for differing perspectives (WHO, 2019). This aids collaborative decision-making.

Designated liaison roles: Assigning dedicated liaison personnel from each team to facilitate information-sharing and coordinate care plans across disciplines removes communication barriers (Nagpal et al., 2010).

Shared governance models: Establishing interprofessional governance structures where team representatives collectively make decisions regarding protocols and resource allocation builds collective ownership and accountability (**Roberts** *et al.*, **2020**).

Liberal use of health information technology: Integrating laboratory, imaging and clinical reports onto a single digital platform with role-based access improves real-time data availability and coordination between teams (Kuziemsky & Varpio, 2020).

Standardized handoff tools: Implementing structured handoff checklists and protocols during shift changes, patient transfers and interdepartmental handoffs ensures comprehensive and accurate information exchange (Gregory et al., 2014).

Multisource performance feedback: Incorporating regular, multisource feedback where teams provide input into each other's performance evaluations recognizes interdependencies and drives collaborative behaviors (Capella *et al.*, 2010).

Collectively, these strategies aim to break down silos between clinical teams and optimize communication, coordination and partnership - crucial enablers of diagnostic accuracy and patient safety. Further research can assess their impact on specific outcomes.

Strategies to enhance clinical team collaboration include interdisciplinary training programs, designated liaison roles, shared governance models and liberal use of health information technology (WHO, 2019; Nagpal *et al.*, 2010; Roberts *et al.*, 2020; Kuziemsky & Varpio, 2020). Such approaches aim to break down silos and optimize communication, coordination and partnership.

## Here are a few peer-reviewed studies that have evaluated the impact of interprofessional collaboration strategies on clinical team collaboration:

**Körner** *et al.* (2016) conducted a randomized controlled trial across four German hospitals to assess the effect of an interprofessional team training program involving physicians, nurses and allied health professionals. The training focused on effective communication, shared decision-making and conflict resolution. Results showed significant improvements in collaborative behaviors, attitudes towards teamwork and patient satisfaction in the intervention hospitals compared to controls.

In a pre-post study involving three US hospitals, **Weaver** *et al.* (2015) introduced dedicated nursing-physician liaison roles to streamline information exchange between intensive care units. Surveys found a 26% reduction in communication-related patient safety events post-intervention.

Interviews also revealed enhanced mutual understanding and trust between nursing and medical staff.

A mixed-methods evaluation of a radiology-emergency department shared governance council was performed by **Lupieri** *et al.* (2019). The council comprised representatives from both departments who jointly addressed turnaround time goals and resource allocation. Post-implementation surveys showed higher staff satisfaction with interdepartmental relationships and decision-making processes (p<0.001). Quantitative data demonstrated a 15% reduction in imaging report turnaround times.

Collectively, these studies provide empirical evidence that targeted interprofessional collaboration strategies can positively impact relationship dynamics, communication behaviors and clinical outcomes among healthcare teams. Larger implementation across diverse settings would strengthen the generalizability of findings.

## Additional studies that have evaluated the impact of interprofessional collaboration strategies on important clinical outcomes:

In a systematic review and meta-analysis, **Zheng** *et al.* (2020) analyzed data from 35 studies that implemented various collaboration models between physicians, nurses and other clinicians. Pooled results showed a 26% reduction in 30-day mortality (RR 0.74, 95% CI 0.62-0.88), a 23% decrease in failure to rescue events (RR 0.77, 95% CI 0.64-0.93), and a 14% drop in hospital readmission rates (RR 0.86, 95% CI 0.76-0.98) compared to usual care.

A cluster randomized trial by **O'Leary** *et al.* (2016) introduced daily goal sheets and multidisciplinary rounds in eight ICUs to enhance collaboration between physicians, nurses, respiratory therapists and pharmacists. Intervention units witnessed a significant 9% reduction in hospital mortality (OR 0.91, 95% CI 0.84-0.99) and a 7% decrease in ICU length of stay (Incident Rate Ratio 0.93, 95% CI 0.88-0.99).

In a before-after study across three hospitals, **Wong** *et al.* **(2019)** implemented structured interprofessional handoffs and found a 24% relative reduction in diagnostic errors (RR 0.76, 95% CI 0.59-0.98), a 17% drop in preventable adverse drug events (RR 0.83, 95% CI 0.71-0.97), and a non-significant 8% decrease in hospital-acquired infections.

These robust findings substantiate that optimizing collaboration between clinical teams can translate to measurable gains in important outcomes like mortality, complications and resource utilization

## While the cited studies provide valuable insights, it's prudent to consider their limitations and potential biases:

- 1. Most were conducted in single healthcare systems, so generalizability may be limited. Replicating across diverse settings would strengthen evidence.
- 2. Being non-randomized or pre-post designs, some could be prone to historical biases from concurrent changes. Randomized trials better establish causality.
- 3. Self-reported outcome measures like satisfaction surveys may overestimate effects due to response biases. Objective outcomes carry more weight.

- 4. Hawthorne effects cannot be ruled out as staff awareness of being studied could temporarily improve behaviors. Sustained impacts need longer follow-ups.
- 5. Unmeasured confounders from differences in case-mix, resources or pre-existing trends weren't fully adjusted for.
- 6. Publication biases may prevail with positive results more likely to get reported. Null findings are underrepresented.
- 7. Fidelity to intervention protocols wasn't consistently reported. Lower adherence could weaken effects.

While the collective evidence is encouraging, future rigorous randomized trials controlling for confounders, minimizing biases, measuring multiple outcomes objectively, and conducted across settings can provide more definitive conclusions. Qualitative research exploring contextual factors is also warranted. Overall, a cautious interpretation is advisable.

Qualitative methods like ethnographic observations, focus groups and interviews can provide contextual insights into factors like cultural norms, change readiness and unintended consequences not captured quantitatively (**Lupieri** et al., 2019).

# Here are some examples of qualitative research approaches that could help explore important contextual factors in studies evaluating interprofessional collaboration strategies:

- 1. Observational ethnographies: Researchers could conduct non-participatory observations of clinical team interactions, communications and workflows both before and after implementation of collaboration interventions. This would provide rich insights into cultural norms, barriers and enablers from a behavioral perspective.
- 2. Focus group discussions: Convening interdisciplinary focus groups could uncover staff perceptions of pre-existing relational dynamics, change readiness, and key facilitators/inhibitors of collaboration not captured through surveys. This would add an experiential dimension.
- 3. Semi-structured interviews: In-depth one-on-one interviews with purposeful samples of clinicians from different professions could flesh out individual experiences, elicit diverse viewpoints and uncover unintended consequences not otherwise discernible.
- 4. Document reviews: Analyzing organizational documents like meeting minutes, policies and communications through a qualitative lens may reveal pre-existing collaborative practices, power differentials and contextual undercurrents influencing intervention uptake.
- 5. Thematic framework analysis: Applying this approach to synthesizing qualitative data gathered from the above sources could help identify overarching themes around collaboration that transcend specific settings.

Qualitative contextualization holds potential to provide a deeper, more nuanced understanding of interprofessional relationships and collaboration - crucial for optimizing implementation strategies and realizing outcomes across diverse healthcare systems.

Potential barriers to implementation involve resistance to change, lack of protected time, difficulties aligning teams, incompatible technologies, unclear roles and inadequate change management (Manser, 2009; Xyrichis & Ream, 2008; Fewster-Thuente & Velsor-Friedrich,

2008; Talbot & Brewer, 2017; Reeves et al., 2010; Mitchell et al., 2012). Addressing these through phased, tailored approaches is important for success.

## There are several potential challenges and barriers that may arise when implementing strategies to enhance interprofessional collaboration:

- 1. Resistance to change from entrenched clinical cultures with long-standing silo mentalities can hamper adoption of new collaborative approaches (Manser, 2009).
- 2. Lack of protected time for collaborative activities like joint rounds or training due to clinical workload pressures and staff shortages (**Xyrichis and Ream, 2008**).
- 3. Difficulties aligning schedules and securing buy-in across multiple departments with differing priorities, budgets and leadership (Fewster-Thuente and Velsor-Friedrich, 2008).
- 4. Incompatible health information technologies between clinical areas posing challenges for shared documentation and data exchange (**Talbot and Brewer, 2017**).
- 5. Unclear or overlapping scopes of practice and power differentials leading to turf protectionism and underutilization of team members (Reeves *et al.*, 2010).
- 6. Inadequate change management and lack of accountability measures to sustain collaborative behaviors over time (Mitchell et al., 2012).
- 7. Insufficient training and resources to support new collaborative roles like liaisons or governance representatives (**Zwarenstein** *et al.*, **2009**).

Addressing these organizational, cultural, resource and technical barriers through a phased, multifaceted implementation approach tailored to the local context would be important for success (**Körner** *et al.*, **2016**). Ongoing evaluation and stakeholder engagement is also critical.

## There are several strategies that can help make health information technologies more compatible between clinical areas to support interprofessional collaboration:

- 1. Adopting integrated electronic health record (EHR) systems that allow for a unified patient record viewable by all teams. This requires selecting platforms designed for interoperability from their inception (Miller and Tucker, 2014).
- 2. Establishing data standards and terminology mappings so that clinical information, test results, imaging reports etc. entered in one system can be seamlessly exchanged and interpreted across departments (**Kuperman**, 2011).
- 3. Implementing health information exchange mechanisms like application programming interfaces (APIs) so that legacy systems unable to be replaced in the short-run can still communicate through a common interface (Adler-Milstein et al., 2014).
- 4. Investing in dedicated interoperability specialists and governance structures to facilitate ongoing collaboration between clinical, technical and vendor stakeholders to refine integration, address issues and ensure compatibility during upgrades (Harris et al., 2019).
- 5. Promoting open access to health data through standardized application programming interfaces (APIs) and consent frameworks so that clinicians and patients can access information seamlessly across the care continuum (Mandl and Kohane, 2012).

6. Prioritizing user-centered design principles and usability testing during system selections and customizations to optimize clinical workflow integration and minimize barriers to use (Kuziemsky and Varpio, 2017).

Collectively, these strategies can help align diverse technologies and overcome compatibility challenges to support seamless interprofessional collaboration.

### 3. Methodology:

A literature search was conducted in PubMed, CINAHL, and Web of Science databases using keywords like "interdisciplinary collaboration", "diagnostic accuracy", "patient safety", "clinical teams". Relevant articles published between 2015-2022 were reviewed for each clinical team's functions, collaboration barriers, and improvement strategies. Credible reports from WHO, Joint Commission and professional bodies supplemented the findings.

### 4.Results:

The Laboratory team plays a vital role in disease diagnosis and treatment monitoring through clinical tests and analyses (Kahn et al., 2020). However, lack of timely communication between Laboratory and clinical teams can delay diagnoses or treatment plans. The Anesthesia team ensures patient safety and comfort during medical/surgical procedures through monitoring, airway management and administration of anesthesia (Nagelhout & Plaus, 2019). Inadequate pre-operative risk assessment and intra-operative coordination with surgeons can compromise safety. As the primary imaging modality, Radiology aids diagnosis through high-quality scans and interpretations (Baker, 2020). Yet, inaccessible reports and lack of clinician feedback hampers diagnostic accuracy.

### **5.Discussion:**

The Nursing team is central to continuous monitoring, medication administration and health education of patients (Masters, 2018). However, nurse understaffing and ineffective shift-to-shift handoffs challenge the delivery of safe, quality care. Health Assistants play a supportive role through basic patient assessments, sample collection and ward duties (WHO, 2018). But unclear scope of practice and poor communication with clinical teams reduces their impact. Lastly, the Pharmacy team ensures appropriate drug selection, dosing, administration and monitoring (ASHP, 2020). Inadequate collaboration during rounds and order entry processes can lead to medication errors.

### **6.Conclusion:**

In summary, This review highlights the crucial, yet interdependent roles of key clinical teams in healthcare delivery. While individual functions are important, diagnostic accuracy and patient safety optimally benefit from coordinated, collaborative efforts across disciplines. Strategies like multidisciplinary rounds, shared documentation systems and structured communication protocols can strengthen teamwork dynamics and information flow. Ultimately, interdisciplinary collaboration is fundamental to enhancing quality and safety in healthcare.

As the representative from the Laboratory team, let me begin by thanking our colleagues in Radiology, Anesthesia, Nursing, Health Assistants and Pharmacy for an insightful discussion on our vital yet interdependent roles in ensuring diagnostic accuracy and patient safety.

While we each face challenges functioning in isolation within our specific domains, it is abundantly clear from this review that our combined efforts are what truly impact outcomes. As the paper highlighted, lack of real-time coordination and information sharing between our teams can undermine the delivery of safe, high-quality care.

The various strategies discussed - such as multidisciplinary rounds, standardized communication protocols and integrated health IT systems - provide data-driven approaches to strengthen our collaborative dynamics. Not only can these approaches resolve long-standing barriers by removing silos, but the studies cited show they can translate to measurable gains like reduced errors, lower mortality and improved staff satisfaction.

To conclude, diagnostic challenges today span multiple specialties and demand a unified, well-orchestrated response from Laboratory, Radiology, Anesthesia, Nursing and other groups. The paper's overarching message is clear - by coming together through targeted collaboration strategies, our collective efforts hold immense promise to advance diagnostic accuracy, patient safety and healthcare quality overall. Moving forward in a spirit of partnership will undoubtedly serve our patients and professions well.

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