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PATIENT NAVIGATORS FACILITATING ACCESS TO PRIMARY CARE: A SCOPING REVIEW.

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Abstract

Introduction: The evolving landscape of healthcare emphasizes the importance of involving health workers and patients in the planning and development of healthcare services. This approach has been linked to improved healthcare outcomes, increased satisfaction, and more efficient service delivery. The aim of this systematic review was to examine the impact of such involvement on the quality and efficacy of healthcare services.

Methods: A comprehensive search strategy was employed across multiple databases including PubMed, Scopus, Web of Science, and the Cochrane Library, focusing on interventional studies and clinical trials published in English from 2007 to 2 022. Inclusion criteria were set to select studies that involved health workers and/or patients in healthcare planning and development, with clear outcomes related to effectiveness, efficiency, patient satisfaction, or worker satisfaction. Studies were excluded if they were non-interventional, lacked relevant outcomes, or fell outside the publication timeframe. The selection process involved screening titles and abstracts, followed by a full-text review, with disagreements resolved through discussion or third- party adjudication.

Results: Eleven studies met the inclusion criteria, demonstrating a range of interventions from participatory workshops to digital feedback platforms. Key findings include a 25% increase in patient satisfaction (risk ratio [RR] 1.25), a 15% reduction in unnecessary diagnostic procedures (RR 0.85), a 20% improvement in adherence to clinical guidelines (RR 1.20), and a 25% decrease in hospital readmission rates for chronic disease patients (RR 0.75).

Conclusions: The review provides compelling evidence that involving health workers and patients in the planning and development of healthcare services leads to significant improvements in patient satisfaction, healthcare efficiency, and clin ical outcomes. These findings underscore the value of

participatory healthcare practices, suggesting that healthcare providers should integrate these approaches to enhance the quality and effectiveness of care delivery.

Keywords: Patient Involvement, Health Worker Engagement, Healthcare Planning, Participatory Healthcare.

Introduction

In the evolving landscape of healthcare, the inclusion of health workers and patients in the planning and development of healthcare services has gained significant attention. Research indicates that when healthcare professionals are actively involved in decision-making processes, the quality of care improves, with one study showing a 15% increase in patient satisfaction rates [1]. Moreover, patient involvement has been linked to enhanced healthcare outcomes, with a systematic review highlighting a 20% reduction in hospital readmission rates when patients actively participate in their care planning [2]. This collaborative approach not only fosters a more patient-centeredhealthcare system but also contributes to the efficiency and effectiveness of healthcare delivery. The concept of participatory healthcare, where patients and health workers collaborate closely, is rooted in the belief that those who are directly impacted by healthcare services should have a voice in how they are designed and implemented. This philosophy is supported by evidence that such collaboration can lead to a 25% improvement in the management of chronic diseases, as patients bring valuable insights into their conditions and treatment preferences [3]. Furthermore, health workers, includingnurses and physicians, report a 30% increase in job satisfaction when they are engaged in the development of the services they provide, suggesting that this approach has benefits for healthcare professionals as well [4].

Despite the recognizedbenefits, the implementation of participatory healthcare practices remains inconsistent. Barriers such as time constraints, lack of resources, and institutional resistance can impede the involvement of health workers and patients, with studies showing that only 40% of healthcare institutions have formal mechanisms for including patient feedback in service development [5]. Additionally, while 60% of health workers express a desire to participate more actively in planning and development processes, only half feel that their contributions are valued by their organizations [6]. To address these challenges, it is essential to develop strategies that facilitate greater involvement of both patients and health workers in healthcare planning. Research suggests that the implementation of digital platforms for feedback and collaboration can significantly enhance participation rates, with a 35% increase in patient and health worker engagement reported after the introduction of such tools [7]. Moreover, training programs aimed at improving communication skills and collaborative practices among healthcare professionals have been shown to increase the effectiveness of participatory approaches by 45% [8].

The aim of this systematic review was to examine the extent to which involving health workers and patients in the planningand development of healthcare impacts the quality and efficacy of healthcare services. Given the compelling evidence that such involvement can lead to improved healthcare outcomes, increased patient and health worker satisfaction, and more efficient service delivery, it is crucial to identify effective strategies for overcoming barriers to participation. By synthesizing findings from the medical literature, this review seeks to provide a comprehensive understanding of the benefits and challenges associated with participatory healthcare practices [9, 10].

Methods

The methodology for this systematic review was meticulously designed to ensure a comprehensive analysis of interventional studies involving health workers and patients in the planning and development of healthcare services. The initial step involved a detailed search strategy to identify relevant literature published within the last years, from 2007 to 2022. The search terms used included combinations of keywords such as "patient involvement," "health worker engagement," "healthcare

planning," "service development," and "interventional studies." These terms were individually and collectively used in various configurations to maximize the coverage of the literaturesearch. Several electronic databases were searched to collect pertinent studies, including PubMed, Scopus, Web of Science, and the Cochrane Library. Each database was thoroughly searched using the defined keywords andtheir synonyms to ensurethe retrieval of all relevant studies. The search was restricted to articles published in English, considering the timeframe from January 2007 to December 2022, to focus on the most recent evidence regarding the involvement of health workers and patients in healthcare planning and development.

The inclusion criteria were strictly defined to ensure the selection of appropriate studies for the review. Only interventional studies that directly involved health workers and/or patients in the planning and development of healthcare services were considered. These studies needed to provide clear outcomes related to the effectiveness, efficiency, patient satisfaction, or worker satisfaction as a result of the intervention. The review was limited to peer-reviewed articles to ensure the quality and reliability of the included studies. Exclusion criteria were also established to narrow down the selection of studies. Articles were excluded if they were not interventional studies, such as reviews, opinion pieces, theoretical papers, or case reports. Studies that did not focus on the direct involvement of health workers and patients in the planning and development processes were also excluded. Additionally, studies outside the specified publication timeframe, not written in English, or lacking clear outcomes related to the review's objectives were omitted from further analysis. The study selection process followed a structured approach. Initially, two reviewers independently screened the titles and abstracts of identified records for eligibility based on the inclusion and exclusion criteria. This preliminary screening resulted in a subset of articles, which were then subjected to a full-text review for a more detailed evaluation. Disagreements between reviewers at anystage of the selection process were resolved through discussion or consultation with a third reviewer, ensuring a consensus was reached on the inclusion of studies. Finally, data extraction and quality assessment of the included studies were conducted using standardized forms and criteria. Information regarding study design, participant characteristics, intervention details, outcomes measured, and key findings were extracted. The quality of each study was assessed using a suitable appraisal tool, focusing on the methodological rigor and the risk of bias. This systematic and detailed methodology ensured the reliability and validity of the findings presented in the review, providing a robust foundation for the conclusions drawn regarding the involvement of health workers and patients in healthcare planning and development..

Results and discussion

The systematic review identified and included a total of 11 interventional studies and clinical trials that met the inclusion criteria, focusing on the involvement of health workers and patients in the planning and development of healthcare services. The sample sizes across these studies varied significantly, ranging from as few as 30 participants in smaller, more focused interventions to over 2,000 participants in larger-scale trials, reflecting the diverse contexts and settings in which these studies were conducted. The types of interventions implemented across the included studies were varied, encompassing a wide range of strategies aimed at enhancing patient and health worker involvement. Some studies focused on the implementation of participatory workshops and training sessions for health workers to improve communication and collaborative skills [11], while others developed digital platforms to facilitate patient feedback directly into service development processes [12]. Additionally, several studies tested the effectiveness of structured patient involvement programs in treatment planning, demonstrating innovative approaches to integrating patient perspectives into clinical care [13].

The effectiveness of these interventions was measured using various outcomes, including patient satisfaction, healthcare efficiency, and the quality of care. One study reported a significant increase in patient satisfaction, with a risk ratio (RR) of 1.25 (95% CI:
1.10 to 1.42), indicating that patients involved in the planning of their care were 25% more likely to

report higher satisfaction levels [14]. Another study focusing on healthcare efficiency found that interventions involving both health workers and patients in service development led to a 15% reduction in unnecessary diagnostic procedures, with a risk ratio of 0.85 (95% CI: 0.75 to 0.97) [15]. Comparing the results of the included studies revealed some common themes. For instance, interventions that employed direct, face-to- face engagement strategies, such as workshops and meetings, tended to report higher improvements in patient and health worker satisfaction than those utilizing indirect methods like digital feedback platforms [16]. However, digital platforms were noted for their scalability and ease of integration into existing healthcare systems, highlighting a trade-off between the depth of engagement and the ease of implementation [17].

The clinical trials included in the review provided robust evidence of the positive impact of patient and health worker involvement on clinical outcomes. One trial reported a significant reduction in hospital readmission rates for chronic diseasepatients involved in their care planning, with a risk ratio of 0.75 (95% CI: 0.65 to 0.86), showcasing the potential for participatory healthcare practices to improve long- term health outcomes [18]. Another study highlighted the role of health worker involvement in enhancing adherence to clinical guidelines, demonstrating a 20% improvement in adherence rates following the intervention, with a risk ratio of 1.20 (95% CI: 1.08 to 1.33) [19]. In summary, the included studies collectively demonstrate the effectiveness of interventions aimed at involving health workers and patients in the planningand development of healthcare services. Despite the variations in intervention design and outcome measures, the overall trend indicates that participatory approaches lead to improvements in patient satisfaction, healthcare efficiency, and adherence to clinical guidelines. These findings underscore the value of including diverse perspectives in healthcare planninganddevelopment to enhancethe quality and effectiveness of care provided. The discussion of the findings from the systematic review highlights the significant impact of involving health workers and patients in the planning and development of healthcare services, as evidenced by the interventional studies and clinical trials included in the review. When comparingthe riskdifferences observed in these studies to those reported in the medical literature for related interventions, several key insights emerge. The interventions analyzed in this review showed a consistent positive effect on patient satisfaction, healthcare efficiency, and clinical outcomes. For instance, the increase in patient satisfaction (risk ratio [RR] of 1.25) and the reduction in unnecessary diagnostic procedures (RR of 0.85) align with findings from the broader literature. Studies focusing on similar participatory approaches report comparable improvements in patient satisfaction and efficiency, with risk ratios ranging from 1.10 to 1.30 for patient satisfaction and 0.80 to 0.90 for reductions in unnecessary procedures [12,13].

These similarities underscore the effectiveness of participatory interventions across different healthcare contexts. However, when comparing the effectiveness of different intervention designs, the review revealed that direct engagement strategies such as workshops and face-to-face meetings tend to produce more pronounced improvements than digital feedback mechanisms. This observation contrasts with some findings in the literature, where digital interventions have shown significant potential for enhancing patient engagement and satisfaction, particularly in large- scale or resource-limited settings [14,15]. This discrepancy may reflect the varying contexts and patient populations studied, suggesting that the most effective engagement strategy may depend on specific healthcare settings and objectives. The reduction in hospital readmission rates for chronic disease patients (RR of 0.75) observed in one of the included studies offers a compelling case for the efficacy of participatory healthcare practices. This finding is notably consistent with literature reports, where similar interventions have been associated with a 10- 25% decrease in readmission rates for such patients [16,17]. These results highlight the potential of patient involvement in care planning to improve long-term health outcomes and reduce healthcare costs. Additionally, the improvement in adherence to clinical guidelines (RR of 1.20) reportedin the review is in line with findings from other studies that have implemented health worker engagement strategies [18,19]. This consistency reinforces the argument that involving healthcare professionals in service development can lead to

better compliance with evidence-based practices, ltimatelyenhancingpatie nt care quality. Despite the positive outcomes associated with participatory interventions, the review also identifies challenges, such as the need for tailored approaches to suit different healthcare environments and patient groups. The literature suggests that while participatory approaches are broadly effective, their implementation must be carefully planned to address barriers such as time constraints, resource limitations, and resistance to change [20,21]. The findings from this systematic review, when compared with existing literature, affirm the value of involvinghealth workers and patients in healthcare planning and development. The evidence supports the adoption of participatory practices as a means to enhance patient satisfaction, improve healthcare efficiency, and achieve better clinical outcomes. Futureresearch should aim to refine these interventions, exploring innovative ways to overcome implementation challenges and tailoring approaches to diverse healthcare settings and populations.

The systematic review boasts several strengths that underscore its relevance and applicability in clinical practice. Firstly, the inclusion of a wide range of interventional studies and clinical trials, with sample sizes varying significantly, enhances the generalizability of the findings. This diversity ensures that the conclusions drawn are applicable across various healthcare settings, from small clinics to large hospitals. Finally, the rigorous methodology, including the comprehensive search strategy and strict inclusion and exclusion criteria, ensures the reliability of the review's findings, offering valuable insights into effective strategies for improving healthcare outcomes through participatory approaches [23, 24]. However, the review also faces limitations that should be considered when interpreting its findings. The restriction to articles published in English potentially omits relevant studies conducted in non-English speakingregions, which could offeradditional insights into the global applicabilityof participatory healthcare practices. Additionally, the focus on interventional studies and clinical trials excludes qualitative research that might provide deeper understanding of the mechanisms through which involvement of health workers and patients impacts healthcare planning and development. This exclusion might limit the review's ability to capture the full spectrum of perspectives and experiences related to participatory healthcare practices.

Conclusions

This systematic review highlights the positive impact of involving health workers and patients in the planning and development of healthcare services. The findings reveal significant improvements in patient satisfaction (risk ratio of 1.25), reductions in unnecessary diagnostic procedures (risk ratio of 0.85), and enhanced adherence to clinical guidelines (risk ratio of 1.20), alongside a notable decrease in hospital readmission rates for chronic disease patients (risk ratio of 0.75). These numerical results underscore the efficacy of participatory interventions in enhancing the quality and efficiency of healthcare delivery. By integrating the insights from this review, healthcare providers can better design and implement interventions that leverage the unique contributions of health workers and patients, ultimately leading to improved healthcare outcomes.

Conflict of interests

The authors declared no conflict of interests.

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Table (1): Summary of studies evaluated the effect of involving healthcare workers and patients in the planning of health system

Study ID	Sample Size	Population Characteristics	Type of intervention	Effectiveness of the intervention	Study conclusion
[11]	120	Adults with chronic diseases	Participatory workshops	RR 1.25 (95% CI: 1.10 to 1.42)	Significant improvement in patient satisfaction and self-management of chronic diseases.
[13]	350	Elderly patients in community care	Digital feedback platforms	RR 0.85 (95% CI: 0.75 to 0.97)	Reduced unnecessary diagnostic procedures, demonstrating efficiency in community care.
[15]	500	Hospitalized patients	Face-to-face meetings	RR 1.20 (95% CI: 1.08 to 1.33)	Improved adherence to clinical guidelines in a hospital setting.
[17]	750	Patients in primary care	Training sessions for health workers	RR 0.75 (95% CI: 0.65 to 0.86)	Decrease in hospital readmission rates for primary care patients.
[19]	1,000	Healthcare workers in hospitals	Patient involvement programs	RR 1.15 (95% CI: 1.05 to 1.26)	Increased job satisfaction among healthcare workers, leading to better

					patient care.
[21]	1,500	Patients with diabetes	Digital health monitoring	RR 0.90 (95% CI: 0.82 to 0.99)	Enhanced management of diabetes through patient engagement and digital tools.
[23]	2,000	Children with asthma	Educational programs for parents	RR 1.30 (95% CI: 1.21 to 1.40)	Significant improvement in asthma control among children through educational interventions.