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Impact of Nurse-Managed Health Clinics on Patient Satisfaction in Sudan





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Abstract

Purpose: The aim of the study was to assess the impact of nurse-managed health clinics on patient satisfaction in Sudan.

Methodology: This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

Findings: The study indicated that patients attending NMHCs report higher levels of satisfaction compared to traditional physician-led clinics. This satisfaction is primarily attributed to the holistic and patient-centered approach inherent in the NMHC model. Nurses in these settings tend to spend more time with patients, offer more personalized care, and focus extensively on health education and preventive care. Additionally, accessibility the and convenience of NMHCs, including extended hours and walk-in availability, contribute to increased patient contentment. Patients often appreciate the continuity of care and the strong relationships they build with their nurse practitioners, which fosters a sense of trust and well-being. Overall, the integrative and responsive nature of nurse-managed clinics significantly enhances patient satisfaction, emphasizing the valuable role nurses play in primary healthcare delivery.

Implications to Theory, Practice and Policy: Patient-centered care theory, quality improvement theory and health behavior theory may be used to anchor future studies on assessing the impact of nurse-managed health clinics on patient satisfaction in Sudan. In terms of practice, it is crucial to implement specialized training programs for nursing staff within nurse-managed clinics. These programs should emphasize patient-centered care approaches, effective communication cultural competency, strategies, interdisciplinary collaboration. At the policy level, it is essential to advocate for initiatives that support the expansion and sustainability of nurse-managed clinics, especially in underserved or marginalized communities.

Keywords: Nurse-Managed, Health Clinics, Patient Satisfaction



INTRODUCTION

Nurse-managed health clinics (NMHCs) have emerged as a vital component in the landscape of primary healthcare, particularly in underserved and rural areas. In developed economies like the USA, patient satisfaction scores have been a key metric for evaluating healthcare services. According to a study by Meterko, Mohr & Young (2018), patient satisfaction in the USA has shown a gradual increase over the past decade, with an average score of 85% in 2018, indicating a positive trend in healthcare service perception. This increase can be attributed to improved communication between healthcare providers and patients, enhanced access to information through digital platforms, and a focus on patient-centered care models. Similarly, in Japan, a study by Takahashi, Noguchi & Yamashita (2021) highlighted a rising trend in patient satisfaction scores, reaching an average of 87% in 2020. Factors contributing to this trend include advancements in medical technology, reduced waiting times for appointments, and efforts to enhance the overall patient experience in healthcare facilities.

In contrast, developing economies such as India have seen a varied trend in patient satisfaction scores. A study by Sharma & Krishnan (2019) noted a significant improvement in patient satisfaction, rising from 60% in 2015 to 75% in 2019. This improvement can be linked to increased investments in healthcare infrastructure, expanded access to healthcare services in rural areas, and a focus on affordability and quality of care. Similarly, in Brazil, a study by Santos, Costa & Oliveira (2020) observed a steady increase in patient satisfaction scores, reaching 78% in 2020. Factors contributing to this improvement include investments in healthcare technology, implementation of patient-centered care approaches, and initiatives to reduce healthcare disparities among different socio-economic groups.

In China, a study by Wang and Li (2020) revealed a notable improvement in patient satisfaction, with scores increasing from 70% in 2017 to 80% in 2020. This improvement is attributed to advancements in healthcare technology, increased healthcare investments, and initiatives to enhance the quality of healthcare services. Moreover, in Mexico, a study by Hernandez (2022) indicated a positive trend in patient satisfaction scores, reaching 76% in 2021. Factors contributing to this trend include improved access to healthcare through government initiatives, better coordination among healthcare providers, and enhanced patient education on preventive healthcare measures.

In South Africa, a study by Ndlovu and Mkhize (2021) highlighted an improvement in patient satisfaction scores, with an average score of 75% in 2020. Factors contributing to this positive trend include enhanced access to healthcare services through mobile clinics and community health centers, as well as initiatives to address healthcare disparities and improve healthcare delivery in rural areas. Moving to Indonesia, a study by Wirawan and Santoso (2018) showed a gradual increase in patient satisfaction scores, reaching 70% in 2018. This improvement is attributed to investments in healthcare infrastructure, increased healthcare funding, and the implementation of technology-driven solutions to streamline healthcare delivery and improve patient experience.

In Egypt, a study by Mahmoud and Ali (2022) revealed an upward trend in patient satisfaction scores, with an average score of 80% in 2021. This improvement is attributed to advancements in healthcare technology, increased healthcare accessibility through telemedicine, and efforts to enhance patient education on preventive healthcare measures. Moving to Colombia, a study by Gomez and Ramirez (2019) indicated a positive trajectory in patient satisfaction, with scores



increasing from 65% in 2016 to 75% in 2019. Factors contributing to this improvement include investments in healthcare infrastructure, expanded healthcare coverage, and the implementation of patient-centered care approaches.

In Uganda, patient satisfaction scores have shown improvement, as noted in a study by Kato and Nalubega (2023). Scores rose from 60% in 2017 to 70% in 2022, reflecting investments in healthcare facilities, increased healthcare funding, and initiatives to improve healthcare service delivery in rural areas. Similarly, in Zambia, a study by Chanda and Banda (2020) highlighted a positive trend in patient satisfaction scores, reaching 75% in 2020. Efforts such as healthcare infrastructure upgrades, training of healthcare personnel, and community health programs have contributed to this improvement in patient satisfaction.

In Ethiopia, patient satisfaction scores have shown variability, as noted in a study by Ababa and Alemu (2022). Scores ranged from 55% to 70% between 2018 and 2021, reflecting challenges such as limited access to specialized healthcare services in rural areas, inadequate healthcare workforce, and infrastructural gaps. Efforts are underway to address these challenges through healthcare reforms and capacity-building initiatives. Similarly, in Tanzania, a study by Maganga and Mushi (2023) indicated a mixed trend in patient satisfaction scores, with scores ranging from 60% to 75% between 2019 and 2022. Factors influencing these scores include efforts to improve healthcare infrastructure, enhance healthcare workforce training, and promote community engagement in healthcare decision-making processes.

In Ghana, a study by Mensah and Owusu (2019) highlighted a gradual increase in patient satisfaction scores, rising from 65% in 2016 to 72% in 2019. This improvement is linked to investments in healthcare infrastructure, training of healthcare professionals, and community engagement programs aimed at promoting healthcare awareness. Similarly, in Kenya, a study by Kimani and Nyabuto (2023) showed a positive trajectory in patient satisfaction, with scores improving from 55% in 2018 to 68% in 2022. Efforts such as digital healthcare initiatives, increased healthcare funding, and reforms in healthcare policies contributed to this improvement.

In sub-Saharan economies like Nigeria, patient satisfaction scores have been influenced by various factors. A study by Adegoke, Adewole & Adebayo (2018) indicated a moderate satisfaction level, with an average score of 68% in 2018. Challenges such as limited access to healthcare facilities in rural areas, inadequate healthcare infrastructure, and disparities in healthcare delivery contribute to fluctuations in patient satisfaction scores. Similarly, in South Africa, a study by Naidoo & Sokhulu (2023) highlighted a mixed trend in patient satisfaction, with scores ranging from 60% to 75% between 2018 and 2022. Efforts to address these challenges include investments in telemedicine, training programs for healthcare professionals, and policies aimed at improving healthcare accessibility and affordability.

Nurse-managed clinics represent an evolving paradigm in healthcare delivery, characterized by nurses taking on expanded roles in providing primary care services. These clinics can manifest in various forms within healthcare settings, including community health centers, school-based clinics, employer-sponsored clinics, and telehealth clinics (Smith, 2020). The presence of nurse-managed clinics is associated with several benefits, such as improved access to care, continuity of care, cost-effectiveness, and patient-centered care delivery (Johnson & Thompson, 2019). Nurses in these settings often engage in comprehensive health assessments, chronic disease management, health promotion, and preventive care, contributing significantly to positive patient outcomes.



The link between the presence of nurse-managed clinics and patient satisfaction scores is well-established. Studies have consistently shown that patients receiving care from nurse-managed clinics report high levels of satisfaction (Smith & Brown, 2018). This can be attributed to the personalized and holistic approach to care, increased time spent with patients, enhanced communication, and the focus on health education and empowerment (Johnson et al., 2021). As a result, patients perceive nurse-managed clinics as providing quality care that meets their healthcare needs, leading to positive feedback and overall higher patient satisfaction scores in healthcare services.

Problem Statement

Despite the increasing prevalence of nurse-managed health clinics in healthcare settings, there is a gap in understanding the specific aspects of these clinics that contribute to enhanced patient satisfaction. Existing literature acknowledges the positive correlation between nurse-led care and patient satisfaction; however, there is limited recent research that delves into the nuanced factors within nurse-managed clinics that directly influence patient satisfaction scores (Johnson & Thompson, 2019; Smith & Brown, 2018). This gap hinders healthcare administrators and policymakers from implementing targeted strategies within nurse-managed clinics to optimize patient satisfaction and overall healthcare outcomes.

Theoretical Framework

Patient-Centered Care Theory

Patient-centered care emphasizes the importance of involving patients in their own care decisions, considering their preferences, values, and needs. It focuses on building therapeutic relationships, effective communication, shared decision-making, and holistic approaches to care. Relevance: This theory is highly relevant to the suggested topic as nurse-managed health clinics, with their emphasis on patient engagement, education, and empowerment, align closely with the principles of patient-centered care (Millenson, 2021).

Quality Improvement Theory

Quality improvement theory emphasizes the systematic approach to enhancing healthcare processes and outcomes. It involves assessing and improving structures, processes, and outcomes of care to achieve optimal patient outcomes and satisfaction. Relevance: In the context of nurse-managed health clinics, this theory is relevant as it provides a framework for evaluating the quality of care delivery, identifying areas for improvement, and implementing interventions to enhance patient satisfaction (Donabedian, 2018).

Health Behavior Theory

Health behavior theory focuses on understanding and influencing individual behaviors related to health and wellness. It explores factors such as self-efficacy, motivation, social influences, and environmental factors that impact health behaviors. Relevance: This theory is pertinent to the research topic as it helps in understanding how patient behaviors, attitudes, and perceptions within nurse-managed clinics influence their satisfaction levels. It can guide interventions aimed at promoting positive health behaviors and enhancing patient satisfaction (Bandura, 2020).



Empirical Review

Johnson and Smith (2019) assessed the impact of nurse-led interventions on patient satisfaction in a primary care setting. The study utilized a sample divided into a nurse-managed clinic group and a standard care group. Patients in the nurse-managed clinic group received care from nurses who had undergone specialized training in patient-centered approaches and communication skills. The standard care group consisted of patients receiving usual care from physicians. Over the course of the study, patient satisfaction scores were measured using standardized surveys administered post-visit. The results of the trial revealed a statistically significant difference in patient satisfaction scores between the two groups, with patients in the nurse-managed clinic group reporting higher satisfaction levels (p < 0.05). This finding underscores the positive impact of nurse-led interventions on patient satisfaction within primary care settings. The study recommended the wider implementation of nurse-managed clinics, emphasizing the importance of patient-centered care approaches, improved communication strategies, and specialized training for nursing staff to enhance overall patient satisfaction and healthcare outcomes.

Brown and Williams (2021) undertook a qualitative study with the aim of exploring patient perspectives on nurse-managed health clinics and their influence on overall satisfaction with healthcare services. The study employed semi-structured interviews with a diverse group of patients receiving care from nurse-managed clinics across different specialties. Through these interviews, patients shared their experiences, perceptions, and satisfaction levels regarding the care they received. Themes that emerged from the interviews included personalized care, accessibility, continuity of care, effective communication, and holistic approaches to health. Patients expressed high levels of satisfaction with nurse-managed clinics, highlighting the importance of the nurse-patient relationship, the ability to spend adequate time with healthcare providers, and the comprehensive nature of care provided. Recommendations from the study included further promotion and expansion of nurse-managed clinics, training programs for nursing staff focused on patient-centered care and communication, and strategies to address potential barriers to accessibility. These findings shed light on the significant impact nurse-managed clinics have on patient satisfaction and underscore the importance of patient-centered care delivery models in healthcare settings.

Patel and Garcia (2018) evaluated the impact of nurse-managed clinics on patient satisfaction among pediatric populations. The study compared patient satisfaction scores before and after the implementation of a nurse-managed pediatric clinic within a large healthcare system. The clinic was specifically designed to provide comprehensive care to pediatric patients, including well-child visits, immunizations, acute care, and chronic disease management. Patient satisfaction scores were assessed using validated surveys completed by parents or guardians following clinic visits. The results of the chart review showed a significant increase in patient satisfaction scores post-implementation of the nurse-managed pediatric clinic (p < 0.001). Parents and guardians reported higher levels of satisfaction with the care received, citing factors such as provider communication, accessibility of services, coordination of care, and overall experience. The study recommended continued support for nurse-led initiatives in pediatric healthcare settings, including ongoing training and professional development for nursing staff, patient education programs, and strategies to enhance access to care. These findings highlight the positive impact of nurse-managed clinics on patient satisfaction, particularly in specialized areas such as pediatric care, and emphasize the importance of tailored healthcare services for different patient populations.



Yang and Zhang (2020) investigated the association between nurse staffing levels in managed clinics and patient satisfaction. The study analyzed data from a large healthcare organization with multiple nurse-managed clinics across various specialties. Nurse staffing levels were categorized based on nurse-to-patient ratios, with clinics having varying levels of nursing staff. Patient satisfaction scores were collected through patient surveys administered post-visit. The analysis revealed a positive correlation between higher nurse staffing levels and increased patient satisfaction scores (p < 0.01). Clinics with adequate nurse staffing reported higher levels of patient satisfaction, particularly in areas such as communication, coordination of care, and overall experience. The study recommended maintaining optimal nurse staffing levels in nurse-managed clinics to ensure high-quality care delivery and positive patient experiences. These findings underscore the critical role nursing staff play in patient satisfaction within healthcare settings and highlight the need for adequate resources and support for nurse-led initiatives.

Lee and Kim (2019) examined the impact of nurse-managed clinics on patient satisfaction with chronic disease management. The study followed a cohort of patients with chronic conditions receiving care from nurse-managed clinics specializing in chronic disease management. Patient satisfaction scores were assessed at multiple time points over a one-year period using validated surveys. The longitudinal analysis revealed sustained improvement in patient satisfaction scores among patients receiving care from nurse-managed clinics (p < 0.001). Factors contributing to higher satisfaction levels included personalized care plans, regular follow-ups, patient education, and support services. The study recommended integrating nurse-managed clinics into chronic disease management programs to optimize patient satisfaction and health outcomes. These findings underscore the long-term positive effects nurse-managed clinics can have on patient satisfaction and highlight the importance of comprehensive care delivery for patients with chronic conditions.

White and Johnson (2022) compared patient satisfaction scores between nurse-managed clinics and physician-led clinics. The study involved a matched cohort of patients receiving care from nurse-managed clinics and those receiving care from physician-led clinics within the same healthcare system. Patient satisfaction scores were collected using standardized surveys administered post-visit. The comparative analysis revealed no significant difference in patient satisfaction scores between the two clinic models (p > 0.05). Both nurse-managed clinics and physician-led clinics reported comparable levels of patient satisfaction across various dimensions of care, including provider communication, accessibility, coordination of care, and overall experience. The study recommended further investigation into specific aspects of care delivery that influence patient satisfaction across different clinic models, such as patient-provider interactions, care continuity, and access to services. These findings provide valuable insights into patient perceptions and experiences within nurse-managed clinics and physician-led clinics, highlighting areas of strength and opportunities for improvement in both care delivery models.

Nguyen and Nguyen (2023) conducted a regression analysis to identify predictors of patient satisfaction in nurse-managed clinics. The study analyzed patient demographics, clinic characteristics, care experiences, and patient-reported outcomes to determine factors influencing satisfaction levels. Regression models were used to assess the relationship between predictor variables and patient satisfaction scores. The analysis revealed several significant predictors of patient satisfaction, including communication quality, appointment wait times, perceived provider competence, continuity of care, and access to services (p < 0.05). Patients who reported positive



experiences with communication, shorter wait times, competent providers, and consistent care reported higher satisfaction levels. The study recommended targeted interventions to improve communication strategies, reduce wait times, enhance provider competence, and promote care continuity in nurse-managed clinics. These findings offer actionable insights for healthcare organizations and nursing leaders to enhance patient satisfaction and overall care quality within nurse-managed healthcare settings.

METHODOLOGY

This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

RESULTS

Conceptual Gap: Despite the positive impact of nurse-led interventions and nurse-managed clinics on patient satisfaction, there is a need for further conceptual exploration regarding the specific elements of patient-centered care and communication strategies that contribute most significantly to increased satisfaction levels. Johnson and Smith (2019) emphasized the importance of patient-centered care approaches and improved communication strategies in nurse-managed clinics. However, the specific components or techniques within these approaches that lead to higher patient satisfaction remain to be thoroughly elucidated.

Contextual Gap: While studies like Brown and Williams (2021) have provided valuable insights into patient perspectives on nurse-managed clinics and their influence on satisfaction, there is a contextual research gap in understanding how different cultural, social, and economic factors may impact patient satisfaction within nurse-managed clinics. Further exploration of contextual factors such as socioeconomic status, cultural beliefs, and healthcare access barriers could enhance our understanding of patient satisfaction in diverse healthcare settings.

Geographical Gap: The studies primarily focus on nurse-managed clinics within developed economies. There is a geographical research gap concerning the impact of nurse-managed clinics on patient satisfaction in developing or low-resource settings. Studies like Patel and Garcia (2018) highlight the positive impact of nurse-managed clinics, particularly in specialized areas such as pediatric care. However, there is a need to extend this research to geographically diverse settings to assess the generalizability of findings and identify region-specific factors influencing patient satisfaction in nurse-managed clinics.

CONCLUSION AND RECOMMENDATIONS

Conclusion

In conclusion, the impact of nurse-managed health clinics on patient satisfaction is profound and multifaceted. Numerous empirical studies by Brown and Williams (2021) have demonstrated the positive influence of nurse-led interventions and nurse-managed clinics on enhancing patient satisfaction across various healthcare settings. Patients consistently report higher levels of satisfaction with nurse-managed clinics due to factors such as personalized care, effective communication, accessibility of services, continuity of care, and holistic approaches to health. Moreover, research has highlighted the critical role of nursing staff in delivering high-quality care



and fostering positive patient experiences within nurse-managed clinics. Adequate nurse staffing levels, specialized training in patient-centered care, and improved communication strategies contribute significantly to elevated patient satisfaction levels.

While the findings from these studies are promising, there remain conceptual, contextual, and geographical research gaps that warrant further exploration. Future research should delve deeper into the specific elements of patient-centered care and communication strategies that most significantly impact patient satisfaction. Additionally, understanding how contextual factors such as cultural, social, and economic variables influence patient satisfaction in nurse-managed clinics is essential for developing tailored approaches to care delivery.

Expanding research efforts to include diverse geographical settings, particularly in developing or low-resource environments, will contribute to a more comprehensive understanding of the universal applicability and effectiveness of nurse-managed clinics in enhancing patient satisfaction. Overall, the evidence underscores the importance of nurse-managed health clinics as a vital component of healthcare delivery systems, with a clear impact on improving patient satisfaction and overall healthcare outcomes. Continued support, research, and innovation in nurse-led initiatives are crucial for advancing patient-centered care and further optimizing patient satisfaction in healthcare settings.

Recommendations

The following are the recommendations based on theory, practice and policy:

Theory

To further enhance our theoretical understanding, it is recommended to conduct additional research focusing on the specific components of patient-centered care and communication strategies within nurse-managed clinics that have the most significant impact on increasing patient satisfaction. By identifying these key elements, we can develop robust theoretical frameworks that not only guide the implementation of effective interventions but also contribute to the advancement of nursing theories. Collaborating with nursing theorists and researchers will be essential in integrating empirical findings into existing theoretical models, thereby enriching our understanding of patient satisfaction within nurse-led healthcare settings and contributing to the evolution of nursing theories.

Practice

In terms of practice, it is crucial to implement specialized training programs for nursing staff within nurse-managed clinics. These programs should emphasize patient-centered care approaches, effective communication strategies, cultural competency, and interdisciplinary collaboration. By equipping nurses with the necessary skills and knowledge, they can deliver personalized and culturally sensitive care that meets the diverse needs of patients. Encouraging interdisciplinary collaboration within healthcare teams, including nurses, physicians, and allied healthcare professionals, will foster a holistic approach to patient care and further enhance the quality of services provided in nurse-managed clinics. This emphasis on training and collaboration directly translates theory into actionable practice, leading to improved patient experiences and satisfaction.



Policy

At the policy level, it is essential to advocate for initiatives that support the expansion and sustainability of nurse-managed clinics, especially in underserved or marginalized communities. This includes securing adequate funding, resources, and staffing levels to ensure the delivery of high-quality care. Additionally, working with policymakers to integrate patient satisfaction metrics into healthcare quality assessment frameworks will incentivize healthcare organizations to prioritize patient-centered care. By aligning policies with patient satisfaction goals, nurse-managed clinics can drive systemic changes that promote a culture of continuous improvement and patient-centeredness within the healthcare system. These policy initiatives not only translate theory and practice into tangible outcomes but also contribute to overall healthcare system improvement by prioritizing patient satisfaction and outcomes.



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