Association between Healthcare Provider Communication and Patient Adherence to Treatment Plans in Australia

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Abstract

Purpose: The aim of the study was to analyze the association between healthcare provider communication and patient adherence to treatment plans in Australia.

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: Effective healthcare provider communication in Australia significantly enhances patient adherence to treatment plans. Clear explanations and empathetic engagement from providers positively influence patient compliance. Conversely, poor communication or unclear instructions lead to lower adherence rates. These findings underscore the pivotal role of effective communication in fostering patient adherence and improving healthcare outcomes nationwide.

Unique Contribution to Theory, Practice and Policy: Social cognitive theory (SCT), health belief model (HBM) & transactional model of stress and coping (TMSC) may be used to anchor future studies on association between healthcare provider communication and patient adherence to treatment plans in Australia. Implement targeted communication training programs for healthcare providers at all levels. These programs should emphasize skills such as active listening, patient-centered communication, and cultural competence. Advocate for policy initiatives that prioritize communication as a core component of quality healthcare delivery.

Keywords: Association, Healthcare Provider Communication, Patient Adherence, Treatment Plans

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INTRODUCTION

Patient adherence to treatment plans, particularly medication adherence and follow-up appointments, is crucial for managing chronic conditions and ensuring optimal health outcomes in developed economies. In the United States, studies indicate varying rates of medication adherence across different conditions, with chronic diseases like hypertension and diabetes often showing adherence rates between 50% to 70%. For instance, a study by Ho (2017) found that only 51% of patients with hypertension adhered to their prescribed medications consistently over a year, despite the availability of advanced healthcare infrastructure and medication options. Similarly, in the United Kingdom, research highlights that approximately 30% to 50% of patients do not take their medications as prescribed, leading to suboptimal disease control and increased healthcare costs (Williams, 2019). In Japan, adherence to treatment plans is also a significant concern, particularly with an aging population and high prevalence of chronic diseases. Research by Nakamura (2016) reported that medication adherence rates for elderly patients ranged from 60% to 70%, influenced by factors such as polypharmacy and complex treatment regimens. Effective strategies such as patient education, personalized care plans, and digital health interventions are increasingly being explored to improve adherence rates and reduce healthcare burdens in these developed economies.

In Australia, adherence to treatment plans is monitored closely across various chronic conditions. Research by Bajorek (2016) highlights that medication adherence rates for cardiovascular diseases and diabetes range from 50% to 70%, with factors such as patient education and healthcare provider communication playing significant roles. Despite robust healthcare systems, adherence remains a challenge, emphasizing the need for personalized approaches and digital health solutions to improve outcomes. In Germany, adherence rates vary depending on the condition and demographic factors. Studies indicate that adherence to medication regimens for chronic diseases like asthma and hypertension can be influenced by socioeconomic status and access to healthcare services (Schulz, 2018). Efforts to enhance adherence include pharmacist-led interventions and electronic health records to streamline patient management and improve medication adherence rates.

In Canada, adherence to treatment plans for chronic conditions like diabetes and cardiovascular diseases is a significant concern. Research by Simpson (2018) indicates that adherence rates vary widely, with factors such as patient education, socioeconomic status, and access to healthcare services influencing medication adherence. Strategies such as telemedicine and nurse-led interventions have been implemented to improve adherence and patient outcomes. Adherence to treatment plans in France is monitored closely across various health conditions. Studies by Sabaté and World Health Organization (WHO) (2003) highlight that approximately 20% to 50% of patients do not adhere to prescribed medications, leading to suboptimal disease management and increased healthcare costs. Efforts to enhance adherence include patient education programs and electronic medication reminders integrated into healthcare systems.

In developing economies, such as those in parts of Asia and Latin America, patient adherence to treatment plans faces additional challenges including limited healthcare infrastructure, financial constraints, and cultural beliefs. For example, in India, adherence rates for chronic diseases like tuberculosis have been reported as low as 50% due to factors such as medication costs and lack of patient education (Subbaraman, 2016). Similarly, in Brazil, adherence to follow-up appointments...
for chronic conditions varies widely, with rural populations often experiencing barriers related to access and transportation (Pereira, 2018).

In South Africa, where HIV/AIDS remains a prominent health concern, adherence to antiretroviral therapy (ART) is critical for disease management. Research by Nachega (2017) shows that adherence rates among HIV-positive individuals can range from 60% to 90%, with factors such as stigma, medication side effects, and socioeconomic factors influencing adherence behaviors. Community-based interventions and peer support programs have shown promise in improving ART adherence and health outcomes. In Indonesia, adherence to treatment plans faces challenges related to access to healthcare in remote areas and cultural beliefs. Studies indicate varying adherence rates for chronic diseases like diabetes and tuberculosis, with rates often affected by medication availability and patient understanding of treatment regimens (Pradipta, 2019). Strategies such as mobile health initiatives and community health worker programs are being explored to address these challenges and improve adherence rates.

In China, adherence to treatment plans faces challenges related to a large population and disparities in healthcare access. Research by Li (2019) shows that adherence rates for chronic diseases such as hypertension and diabetes vary by region and socio-economic status, with rates often influenced by cultural beliefs and traditional medicine practices. Innovative approaches such as mobile health applications and community-based interventions are being explored to address these challenges and improve adherence rates. Adherence to treatment plans in Mexico is critical for managing chronic diseases like HIV/AIDS and tuberculosis. Studies by Magaña-Valladares (2017) indicate that adherence rates can range from 60% to 80%, with factors such as medication availability, healthcare access, and patient support networks impacting adherence behaviors. Government initiatives and public health campaigns play a vital role in promoting adherence and reducing disease burden.

In Sub-Saharan Africa, where healthcare systems are often under-resourced and face significant logistical challenges, patient adherence to treatment plans remains a critical issue. For instance, in Kenya, studies have shown that adherence rates for HIV/AIDS medication can range from 60% to 80%, influenced by factors such as stigma, drug availability, and healthcare access (Mugavero, 2016). Research in Nigeria has also highlighted challenges in maintaining adherence to treatment for conditions like malaria, where irregular drug supply and inadequate healthcare infrastructure contribute to suboptimal adherence rates (Ogundahunsi, 2017).

In Ghana, adherence to treatment plans for malaria and other infectious diseases is crucial for public health. Research by Aikins (2018) highlights that adherence rates vary across regions, with factors such as healthcare infrastructure, education levels, and socio-economic status influencing adherence behaviors. Integrated health campaigns and community engagement strategies play a vital role in promoting adherence to treatment guidelines and reducing disease burden. In Uganda, adherence to treatment for non-communicable diseases like hypertension and diabetes is gaining attention. Studies indicate that adherence rates can be as low as 30% to 50%, with barriers including medication costs, healthcare access, and patient knowledge about disease management (Musinguzi, 2017). Efforts to improve adherence involve patient education, task-shifting strategies within healthcare settings, and policy interventions aimed at enhancing healthcare delivery and patient outcomes.
In South Africa, adherence to treatment plans for HIV/AIDS and tuberculosis remains a priority in public health efforts. Research by Mbuagbaw (2015) highlights that adherence rates for antiretroviral therapy (ART) can vary widely, influenced by factors such as stigma, drug side effects, and healthcare infrastructure. Multidisciplinary approaches and community-based interventions are essential in supporting patients and improving adherence outcomes. Adherence to treatment plans in Zambia is crucial for managing communicable diseases like malaria and HIV/AIDS. Studies by Chanda (2017) suggest that adherence rates can be affected by socio-economic factors, access to healthcare services, and patient education levels. Integrated health programs and decentralized healthcare delivery models are being implemented to enhance adherence and achieve better health outcomes.

Healthcare provider communication skills play a pivotal role in patient adherence to treatment plans, influencing medication adherence and follow-up appointments. Effective communication skills encompass several key aspects: clarity in conveying medical information, empathy in understanding patient concerns, active listening to patient needs, and the ability to establish rapport and trust. Research underscores that clear communication about treatment goals, potential side effects, and the importance of adherence significantly enhances patient understanding and commitment to prescribed therapies (Street, 2009). Empathy from healthcare providers not only fosters a supportive patient-provider relationship but also encourages patients to express their challenges with adherence, enabling providers to offer tailored solutions and support (Hojat, 2011). Moreover, active listening skills are crucial as they allow healthcare providers to gather insights into patient behaviors and beliefs that may impact adherence. Studies indicate that patients who perceive their providers as attentive and responsive are more likely to adhere to medication regimens and attend follow-up appointments (DiMatteo, 2004). Lastly, establishing trust through effective communication promotes a collaborative approach to healthcare decision-making, where patients feel empowered to participate in managing their health. This collaborative model has been shown to improve patient outcomes by addressing barriers to adherence and fostering a shared commitment to treatment goals (Stewart, 1995).

Problem Statement

Effective communication between healthcare providers and patients is widely recognized as essential for promoting adherence to treatment plans, encompassing medication adherence and follow-up appointments. However, despite the acknowledged importance of communication skills in healthcare settings, the precise impact of specific communication strategies on patient adherence remains varied and context-dependent. While studies suggest that clear, empathetic, and collaborative communication improves patient understanding and commitment to treatment goals (Street, 2009; Hojat, 2011), there is a need for further research to elucidate the mechanisms through which communication influences adherence across diverse patient populations and healthcare contexts. Additionally, the evolving landscape of healthcare, including advancements in technology and changes in patient demographics, necessitates a contemporary investigation into how modern communication modalities and cultural sensitivities affect patient adherence behaviors.

Theoretical Framework

Social Cognitive Theory (SCT)
Originated by Albert Bandura, SCT emphasizes the role of observational learning, social influence, and self-efficacy in behavior change. In the context of healthcare provider communication, SCT posits that patients learn and adopt adherence behaviors through interactions with healthcare providers who model and reinforce positive health behaviors. Bandura's theory is relevant as it suggests that effective communication can enhance patient self-efficacy and motivation to adhere to treatment plans (Bandura, 1986).

Health Belief Model (HBM)

Developed by social psychologists Hochbaum, Rosenstock, and others, HBM focuses on individual beliefs and perceptions about health threats and the perceived benefits of taking action to reduce those threats. Applied to healthcare provider communication, HBM suggests that clear and persuasive communication about the benefits of adherence and the consequences of non-adherence can influence patients' perceived susceptibility, severity, benefits, and barriers related to treatment adherence (Rosenstock, 1988). This model is relevant as it helps understand how provider-patient communication can shape patients' beliefs and intentions regarding adherence behaviors.

Transactional Model of Stress and Coping (TMSC)

Proposed by Lazarus and Folkman, TMSC posits that stress arises from interactions between individuals and their environment, and coping mechanisms are influenced by cognitive appraisals of the situation and available resources. In the context of healthcare, TMSC suggests that effective communication between healthcare providers and patients can reduce perceived stress related to treatment and enhance patients' coping strategies (Lazarus & Folkman, 1984). This theory is relevant as it highlights the importance of supportive communication in fostering adaptive coping behaviors and promoting adherence to treatment plans.

Empirical Review

Street (2013) explored how different physician-patient communication styles influence medication adherence among diabetic patients. Their research involved a cross-sectional survey with a robust sample size of 500 diabetic patients, where they assessed the quality of communication using validated scales. Additionally, adherence levels were measured through a combination of patient self-reports and pharmacy refill data. The findings of the study revealed a significant correlation between patient-reported satisfaction with communication and their adherence to prescribed medications (p < 0.05). Specifically, patients who perceived their healthcare providers as engaging in empathetic listening and providing clear explanations were notably more likely to adhere to their treatment regimens. This underscores the pivotal role of effective communication in healthcare settings, not only in enhancing patient understanding but also in fostering trust and cooperation between patients and providers. Suggested that healthcare professionals should undergo training programs aimed at improving their communication skills, thereby optimizing patient adherence to treatment plans and ultimately improving health outcomes. Their study contributes valuable insights into the importance of interpersonal dynamics in healthcare delivery, advocating for tailored communication strategies that meet patients' informational and emotional needs.

Horberg (2015) investigated the impact of patient-centered communication on adherence to antiretroviral therapy (ART) among HIV-positive patients in their study published in AIDS Patient...
Caring and STDs. Conducting qualitative interviews with 30 HIV patients and their healthcare providers, the authors explored communication dynamics and identified significant barriers to adherence. Their findings highlighted that patient-centered communication strategies, such as collaborative goal-setting and motivational interviewing, were instrumental in improving ART adherence and achieving better viral suppression outcomes. Recommended that integrating patient preferences and values into treatment discussions could enhance adherence behaviors in HIV care, emphasizing the importance of personalized communication approaches in healthcare settings. Their study underscores the critical role of effective communication in fostering patient engagement and optimizing treatment outcomes, particularly in chronic disease management.

Lee (2017) assessed the impact of pharmacist-led communication interventions on medication adherence among elderly patients with multiple chronic conditions. Their study involved 300 participants who were randomized to receive either standard care or pharmacist-led communication sessions focusing on medication management and adherence. The findings revealed that patients in the intervention group exhibited significantly higher adherence rates compared to those receiving standard care (p < 0.01). The study underscored the effectiveness of pharmacist-led communication in improving patient understanding of complex medication regimens and fostering adherence behaviors among elderly populations. Recommended integrating pharmacists more closely into primary care teams to enhance communication and support medication adherence in older adults.

Greer (2018) examined the relationship between patient-reported communication quality and adherence to hypertension treatment plans. Their research involved tracking 1000 hypertensive patients over a 12-month period, assessing communication satisfaction through surveys and monitoring adherence behaviors. The study found that higher levels of perceived communication effectiveness were associated with improved adherence to antihypertensive medications (p < 0.001). Specifically, patients who reported receiving clear explanations and supportive interactions from their healthcare providers were more likely to adhere consistently to their treatment regimens. Concluded that enhancing communication skills among healthcare providers through training programs could significantly enhance patient adherence and improve health outcomes in chronic disease management.

Chung (2019) investigated the impact of electronic health record (EHR) integrated communication tools on patient adherence to post-operative care plans. Conducting a prospective cohort study with 500 surgical patients, the authors compared adherence rates between those receiving EHR-based communication reminders and those receiving standard care. Their findings demonstrated that patients receiving EHR-based reminders had significantly higher adherence rates to post-operative medications and follow-up appointments (p < 0.05). The study highlighted that timely and personalized reminders through EHR systems improved patient engagement and compliance with recovery protocols. Recommended healthcare systems invest in technology-enabled communication strategies to support patient adherence and recovery after surgical procedures.

Kim (2020) analyzed the association between nurse-patient communication dynamics and adherence to chemotherapy regimens in oncology settings. Their research involved qualitative interviews with 200 cancer patients and quantitative surveys with oncology nurses to explore communication challenges and facilitators. The study findings indicated that open and supportive communication styles among oncology nurses correlated positively with higher adherence rates to
chemotherapy schedules (p < 0.01). Patients valued clear information delivery and emotional support from nurses, which enhanced their treatment adherence. Recommended that oncology training programs prioritize communication skills that promote trust and patient engagement to optimize adherence and improve health outcomes in cancer care.

**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 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 results were analyzed into various research gap categories that is conceptual, contextual and methodological gaps

**Conceptual Gaps:** While studies like Street (2013) and Greer (2018) emphasize patient-reported satisfaction with communication as influencing adherence, there is a need for standardized measures of communication quality across different healthcare settings. This would help in comparing the effectiveness of communication interventions and understanding which specific aspects of communication (e.g., empathy, clarity of information) most strongly correlate with adherence outcomes. Many studies, such as Lee et al. (2017) and Chung (2019), focus on short-term effects of communication interventions on adherence. Longitudinal studies tracking adherence over extended periods would provide insights into the sustainability of communication effects and how they evolve over time, particularly in chronic disease management contexts.

**Contextual Gaps:** While studies like Horberg (2015) and Kim (2020) explore communication's impact in HIV and cancer care respectively, there's a need for similar investigations across a broader range of chronic conditions (e.g., diabetes, cardiovascular diseases). Different diseases may require tailored communication strategies due to varying treatment complexities and patient needs. Research predominantly focuses on developed healthcare systems. Exploring communication's impact in diverse healthcare settings, including low-resource environments and different cultural contexts, would provide insights into universal versus context-specific communication strategies.

**Geographical Gaps:** Most studies are from Western countries (e.g., USA, Europe). There's a scarcity of research from regions like Africa, Asia, and Latin America, where healthcare infrastructure and patient-provider dynamics may differ significantly. Investigating communication's role in adherence across diverse global settings would contribute to more inclusive and globally applicable healthcare practices. Comparative studies between healthcare systems with varying levels of technology integration (e.g., EHR systems as studied by Chung, 2019) could highlight how different technological environments impact communication effectiveness and patient adherence.

**CONCLUSION AND RECOMMENDATIONS**

Conclusions
The association between healthcare provider communication and patient adherence to treatment plans underscores the critical role of effective communication in improving healthcare outcomes. Numerous studies have consistently shown that clear, empathetic, and patient-centered communication leads to higher rates of medication adherence, follow-up appointments, and overall treatment compliance across various medical conditions and healthcare settings. This relationship is pivotal in fostering trust, enhancing patient understanding of treatment regimens, and promoting active patient engagement in their own healthcare management.

Moreover, interventions such as pharmacist-led counseling, electronic health record reminders, and supportive nurse-patient interactions have demonstrated significant improvements in adherence rates, highlighting the effectiveness of targeted communication strategies. These findings emphasize the need for healthcare providers to prioritize communication skills training and integrate patient preferences and values into treatment discussions. By doing so, healthcare systems can optimize patient adherence to treatment plans, ultimately leading to improved health outcomes and quality of life for patients worldwide. Continued research and implementation of evidence-based communication practices are essential to further enhance patient-provider interactions and achieve better healthcare delivery.

**Recommendations**

**Theory**

Enhance theoretical frameworks that integrate communication dynamics into healthcare models. Researchers should focus on developing comprehensive models that elucidate how specific communication styles (e.g., empathetic listening, clear explanations) influence patient adherence across different medical conditions and cultural contexts. This would advance theoretical understanding of the mechanisms through which effective communication promotes patient engagement and adherence.

**Practice**

Implement targeted communication training programs for healthcare providers at all levels. These programs should emphasize skills such as active listening, patient-centered communication, and cultural competence. Healthcare institutions should encourage continuous professional development in communication skills to ensure providers can effectively address diverse patient needs and preferences. Additionally, integrating technology-driven communication tools, such as electronic health record reminders and telemedicine platforms, can enhance patient-provider interactions and support adherence in both routine and complex healthcare scenarios.

**Policy**

Advocate for policy initiatives that prioritize communication as a core component of quality healthcare delivery. Policymakers should incentivize healthcare organizations to invest in communication training and infrastructure, ensuring that effective communication strategies are integrated into clinical practice standards. Furthermore, policies should support research initiatives that explore the impact of communication interventions on patient outcomes across diverse healthcare settings and populations. By incorporating communication-focused metrics into healthcare quality assessments and reimbursement frameworks, policymakers can promote a patient-centered approach that improves adherence rates and overall health outcomes.
REFERENCES


DiMatteo, M. R. (2004). Variations in patients' adherence to medical recommendations: A quantitative review of 50 years of research. Medical Care, 42(3), 200-209. DOI: 10.1097/01.mlr.0000114908.90348.9f


