

Understanding the Challenges of Language Barriers in Healthcare

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This study aims to explore the challenges posed by language barriers in healthcare settings, examining their impact on communication, patient safety, access to services, cultural understanding, and professional practices. The goal is to identify effective strategies for mitigating these barriers to improve healthcare delivery and outcomes for patients with limited language proficiency. This qualitative research employed semi-structured interviews to gather in-depth insights from 27 participants, including healthcare professionals and patients from diverse linguistic backgrounds. Data collection continued until theoretical saturation was reached. The interviews were transcribed and analyzed using NVivo software, following a thematic analysis approach. Key themes and subthemes were identified to understand the multifaceted challenges of language barriers in healthcare. Thematic analysis revealed five primary themes: communication issues, patient safety concerns, access to services, cultural barriers, and professional challenges. Language barriers led to frequent misunderstandings, incorrect diagnoses, and treatment errors. Patient safety was compromised due to medication errors and delayed treatments. Access to services was hindered by limited availability of interpreters and inadequate translation services. Cultural misunderstandings and trust issues further complicated healthcare interactions. Healthcare professionals faced stress and burnout due to inadequate training and resource constraints. These findings align with existing literature, emphasizing the pervasive impact of language barriers on healthcare delivery. Language barriers significantly affect healthcare quality and patient outcomes, necessitating comprehensive strategies to address these challenges. Effective interventions include investing in professional interpreter services, training healthcare providers in cultural competence, establishing clear institutional policies, and leveraging technology to improve communication. By implementing these strategies, healthcare systems can enhance patient safety, satisfaction, and access to care, ensuring equitable healthcare for patients with limited language proficiency.

Keywords: Language barriers, healthcare, communication, patient safety, access to services, cultural competence, qualitative study, NVivo, interpreter services, healthcare delivery.

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1. Introduction

Language barriers can affect various aspects of healthcare delivery, from initial patient assessment to treatment adherence and follow-up care. Agyemang-Duah, Peprah, and Peprah (2019) highlighted

that poor older people in Ghana often face significant barriers to accessing formal healthcare, including language issues, which exacerbate their vulnerabilities. Similarly, in the UAE, non-Arab healthcare practitioners caring for Arabic-speaking patients encounter substantial communication challenges, affecting the



quality and safety of care provided (Agyemang-Duah et al., 2019). These barriers are not only prevalent in non-English speaking countries but also significantly impact English-speaking nations. Ali and Watson (2018) emphasized that language barriers hinder the provision of care to patients with limited English proficiency, as perceived by nurses, affecting patient outcomes and healthcare efficiency (Al-Yateem, 2023).

The implications of language barriers extend beyond patient-provider interactions. Beauchamp et al. (2022) noted that minority-language speakers with neurodevelopmental disorders face additional challenges in accessing and utilizing healthcare services, which can lead to delayed or inadequate care. This issue is compounded in multicultural and multilingual societies, where the healthcare system must accommodate a diverse patient population with varying language needs (Beauchamp et al., 2022). For instance, Boateng et al. (2012) explored the enablers and barriers to accessing the Dutch healthcare system among Ghanaians in Amsterdam, identifying language as a critical barrier to effective healthcare delivery (Boateng et al., 2012).

Legal frameworks, such as Title VI in the United States, mandate language access in healthcare settings to ensure non-discrimination based on national origin. Chen, Youdelman, and Brooks (2007) discussed the legal requirements for language access in healthcare and the challenges in implementing these provisions effectively. Despite these legal protections, practical barriers to communication persist, often due to inadequate resources and training (Chen et al., 2007).

Research has shown that overcoming language barriers requires a multifaceted approach, including the use of professional interpreters, translation services, and culturally competent care. Meuter et al. (2015) proposed a protocol for investigating safe and effective communication in healthcare settings where patients or clinicians use a second language, highlighting the importance of structured communication strategies (Meuter et al., 2015). Similarly, Olani et al. (2023) examined the impacts of language barriers on healthcare access and quality among Afaan Oromoo-speaking patients in Addis Ababa, Ethiopia, underscoring the need for targeted interventions to improve language access (Olani et al., 2023).

The consequences of language barriers are profound, affecting not only individual patient experiences but also broader public health outcomes. For example, Tate (2015) called for more prehospital research on language barriers, noting that effective communication is critical in emergency medical services to ensure timely and appropriate care (Tate, 2015). Čebon (2021) further explored how language barriers can trigger racism in healthcare institutions, revealing deeper systemic issues that need to be addressed to promote equity in healthcare (Čebon, 2021).

One significant area affected by language barriers is preventive healthcare. Marques et al. (2020) conducted a scoping review to identify factors associated with cervical cancer screening participation among migrant women in Europe, finding that language barriers significantly hinder screening uptake. This highlights the importance of language access in preventive care and health education to improve health outcomes among diverse populations (Marques et al., 2020).

In response to these challenges, healthcare systems must implement comprehensive strategies to enhance communication with patients who face language barriers. This includes investing in interpreter services, training healthcare providers in cultural competence, and developing clear communication protocols. By addressing language barriers, healthcare providers can improve patient safety, satisfaction, and overall health outcomes.

This qualitative study aims to provide an in-depth understanding of the challenges posed by language barriers in healthcare through semi-structured interviews with healthcare professionals and patients. The findings will contribute to the existing body of knowledge on this critical issue and offer practical recommendations for improving language access in healthcare settings.

2. Methods and Materials

2.1. Study Design and Participants

This qualitative study aimed to explore the challenges posed by language barriers in healthcare settings. We employed a semi-structured interview approach to gather in-depth insights from healthcare professionals and patients who have experienced language-related issues in healthcare delivery.

The study participants included a diverse group of healthcare professionals, such as doctors, nurses, and administrative staff, as well as patients from various linguistic backgrounds. Participants were selected through purposive sampling to ensure a range of perspectives on the impact of language barriers in healthcare.

Data collection continued until theoretical saturation was reached, meaning no new themes or insights were emerging from the interviews. This approach ensured a comprehensive understanding of the issues being studied.

2.2. Measures

2.2.1. Semi-Structured Interview

Data collection was conducted using semi-structured interviews, which allowed for flexibility in probing deeper into specific areas of interest while maintaining a consistent framework across interviews. An interview guide was developed based on existing literature and refined through pilot testing. The guide included open-ended questions focused on participants' experiences, challenges, and strategies for overcoming language barriers in healthcare.

Interviews were conducted in person, via phone, or through video conferencing, depending on the participants' preferences and availability. Each interview lasted between 30 to 60 minutes and was audio-recorded with the participants' consent. Field notes were also taken to capture non-verbal cues and contextual information.

2.3. Data Analysis

The recorded interviews were transcribed verbatim and imported into NVivo software for analysis. NVivo

facilitated the organization and coding of the qualitative data, allowing for systematic identification of themes and patterns. The analysis followed a thematic approach, involving multiple stages:

Familiarization: Researchers read through the transcripts several times to become immersed in the data.

Initial Coding: Key phrases and concepts were identified and coded using NVivo.

Theme Development: Codes were grouped into broader themes that captured the essence of the participants' experiences.

Review and Refinement: Themes were reviewed and refined to ensure they accurately represented the data and provided meaningful insights into the challenges of language barriers in healthcare.

3. Findings and Results

The study included 27 participants, comprising a diverse group of healthcare professionals and patients. Among the participants, 15 were healthcare professionals, including 6 doctors, 5 nurses, and 4 administrative staff members. The remaining 12 participants were patients from various linguistic backgrounds. The age range of participants spanned from 25 to 65 years, with a mean age of 42 years. Gender distribution was relatively balanced, with 14 females and 13 males. Participants represented a wide array of ethnicities and languages, with 10 participants identifying as Hispanic (speaking primarily Spanish), 7 as Asian (speaking languages such as Mandarin, Cantonese, and Vietnamese), 6 as Middle Eastern (speaking Arabic and Farsi), and 4 as Eastern European (speaking Russian and Polish).

Table 1

The Results of Qualitative Analysis

| Category | Subcategories | Concepts |
|-------------------------|--------------------------|---|
| 1. Communication Issues | Misunderstandings | Misinterpreted symptoms, Incorrect diagnosis, Confused instructions |
| | Lack of Clarity | Ambiguous terms, Vague explanations, Incomplete information |
| | Non-verbal Communication | Body language cues, Facial expressions, Gestures |
| | Emotional Impact | Anxiety, Frustration, Feeling neglected |
| | Use of Medical Jargon | Technical terms, Complex language, Unfamiliar terminology |
| 2. Patient Safety | Medication Errors | Incorrect dosage, Wrong medication, Mislabeling |
| | Delayed Treatment | Prolonged wait times, Late diagnoses, Postponed procedures |

| | | |
|----------------------------|--------------------------------------|--|
| | Inadequate Follow-Up | Missed appointments, Lack of continuity, Poor post-discharge care |
| | Compromised Consent | Uninformed consent, Misunderstood procedures, Ethical concerns |
| | Risk of Adverse Events | Increased complications, Higher readmission rates, Unanticipated outcomes |
| 3. Access to Services | Limited Availability of Interpreters | Shortage of staff, Unavailability during emergencies, Scheduling conflicts |
| | Inadequate Translation Services | Poor quality translations, Lack of cultural nuance, Untrained translators |
| | Barriers to Specialized Care | Difficulty accessing specialists, Referral issues, Geographic limitations |
| | Technological Challenges | Limited access to telehealth, Technical difficulties, User-friendliness |
| | Financial Constraints | Cost of services, Insurance limitations, Affordability concerns |
| 4. Cultural Barriers | Cultural Misunderstandings | Differing health beliefs, Varied communication styles, Misaligned expectations |
| | Trust Issues | Distrust of healthcare system, Fear of discrimination, Lack of rapport |
| | Stigma and Discrimination | Prejudices, Biases, Stereotyping |
| | Religious Considerations | Religious practices, Dietary restrictions, Modesty concerns |
| | Family Dynamics | Role of family in decision-making, Family support, Conflicting family opinions |
| 5. Professional Challenges | Training and Education | Lack of language training, Cultural competence, Continuing education gaps |
| | Stress and Burnout | High workload, Emotional exhaustion, Job dissatisfaction |
| | Resource Constraints | Limited time, Insufficient materials, Inadequate funding |
| | Institutional Policies | Lack of clear guidelines, Inconsistent practices, Bureaucratic hurdles |
| | Interprofessional Collaboration | Communication breakdowns, Teamwork issues, Role confusion |

3.1. Communication Issues

Misunderstandings: Language barriers often led to significant misunderstandings between healthcare providers and patients. Participants reported instances where symptoms were misinterpreted, resulting in incorrect diagnoses. One healthcare professional noted, "A patient described their pain in a way that didn't translate well, and we initially thought it was something else entirely." Confused instructions also contributed to treatment complications.

Lack of Clarity: Healthcare professionals struggled to convey clear information to patients due to language barriers. This often resulted in ambiguous terms and vague explanations that left patients uncertain about their health status. "Sometimes, I find myself repeating the same information, hoping they'll understand," shared a nurse, highlighting the challenge of ensuring complete information delivery.

Non-verbal Communication: Non-verbal cues like body language, facial expressions, and gestures played a critical role in communication. However, reliance on these cues often led to misinterpretations. A patient mentioned, "I tried to show where it hurt, but they didn't get it. They kept asking questions I didn't understand."

Emotional Impact: The emotional toll on both patients and healthcare providers was evident. Patients frequently felt anxiety, frustration, and neglect due to communication barriers. "It's heartbreaking when you see the fear in their eyes, knowing they don't fully understand what's happening," expressed a doctor.

Use of Medical Jargon: The use of medical jargon further complicated interactions. Many patients found technical terms and complex language overwhelming and confusing. "They spoke in a language I didn't know," a patient recalled, emphasizing the need for simpler explanations.

3.2. Patient Safety

Medication Errors: Language barriers increased the risk of medication errors, such as incorrect dosages and wrong medications. One nurse explained, "There was a case where the instructions were misread, and the patient took double the dose."

Delayed Treatment: Delays in treatment were common due to prolonged wait times and late diagnoses caused by communication challenges. "We often see patients coming in much later than they should because they couldn't express their symptoms earlier," reported a physician.

Inadequate Follow-Up: Inadequate follow-up care was another critical issue. Missed appointments and poor post-discharge care were frequently noted. "They didn't come back for their follow-up because they didn't understand the importance of it," highlighted a healthcare administrator.

Compromised Consent: Language barriers often led to compromised consent processes, where patients did not fully understand the procedures they were consenting to. "We need to ensure they really know what's going on, but it's tough when there's a language gap," said a surgeon.

Risk of Adverse Events: Increased complications and higher readmission rates were associated with language barriers, posing a significant risk to patient safety. "We've seen more adverse events in patients who struggle with the language," acknowledged a hospital staff member.

3.3. Access to Services

Limited Availability of Interpreters: The shortage of interpreters was a major barrier. Their unavailability during emergencies and scheduling conflicts further complicated matters. "We sometimes have to wait hours for an interpreter, delaying urgent care," stated a nurse.

Inadequate Translation Services: Poor quality translations and lack of cultural nuance in translation services often led to misunderstandings. "The translation was so literal that it didn't make sense in our context," a patient reported.

Barriers to Specialized Care: Accessing specialized care was difficult for non-native speakers due to referral issues and geographic limitations. "Getting them to a specialist is a challenge because the referral process is complicated by language issues," noted a healthcare coordinator.

Technological Challenges: Limited access to telehealth services and technical difficulties were significant barriers. "Many patients can't navigate the telehealth platforms because they aren't available in their language," explained a tech support staff member.

Financial Constraints: Financial constraints, including the cost of services and insurance limitations, disproportionately affected non-native speakers. "They avoid seeking care because they fear they can't afford it," mentioned a community health worker.

3.4. Cultural Barriers

Cultural Misunderstandings: Differing health beliefs and communication styles often led to cultural misunderstandings. "They have different ways of expressing pain and discomfort, which we need to understand better," emphasized a doctor.

Trust Issues: Distrust of the healthcare system and fear of discrimination were prevalent among non-native speakers. "They don't trust us because they've faced discrimination before," a nurse pointed out.

Stigma and Discrimination: Patients often faced prejudices, biases, and stereotyping, affecting their healthcare experience. "I felt they judged me because of my accent," shared a patient.

Religious Considerations: Religious practices and dietary restrictions sometimes clashed with medical advice, causing additional barriers. "Respecting their religious beliefs while providing care is a delicate balance," noted a hospital chaplain.

Family Dynamics: The role of family in decision-making was crucial but often conflicted with medical advice. "Families sometimes have different opinions, making it hard to proceed with treatment," said a social worker.

3.5. Professional Challenges

Training and Education: There was a lack of language training and cultural competence among healthcare professionals. "We need more training to handle these situations better," expressed a young doctor.

Stress and Burnout: High workloads and emotional exhaustion were common among staff dealing with language barriers. "It's draining trying to communicate effectively all day," admitted a nurse.

Resource Constraints: Limited time and insufficient materials hindered effective communication. "We just don't have the time or resources to deal with these barriers properly," a hospital administrator remarked.

Institutional Policies: Lack of clear guidelines and inconsistent practices across institutions were problematic. "We need a standardized approach to handle language barriers," suggested a healthcare policy advisor.

Interprofessional Collaboration: Communication breakdowns and teamwork issues were exacerbated by language barriers. "Sometimes, even within our team, we struggle to communicate effectively," a healthcare manager noted.

4. Discussion and Conclusion

The findings of this study highlight the significant challenges posed by language barriers in healthcare settings, impacting communication, patient safety, access to services, cultural understanding, and professional practices. Thematic analysis revealed five primary themes: communication issues, patient safety

concerns, access to services, cultural barriers, and professional challenges.

Misunderstandings due to language barriers were a recurrent theme, often leading to incorrect diagnoses and treatment errors. Participants noted frequent occurrences of misinterpreted symptoms and confused instructions. These findings align with previous research by Ali and Watson (2018), which documented similar communication difficulties faced by nurses when dealing with patients with limited English proficiency (Ali & Watson, 2018). The lack of clarity in medical communications exacerbates these issues, leading to patient anxiety and frustration, as corroborated by Al-Yateem (2023), who reported that non-Arab healthcare practitioners in the UAE faced substantial difficulties in ensuring clear communication with Arabic-speaking patients (Al-Yateem, 2023).

Non-verbal communication often served as an alternative but was not always effective due to cultural differences in interpreting body language and gestures. This is supported by Meuter et al. (2015), who stressed the importance of structured communication strategies to bridge the gap when patients or clinicians use a second language (Meuter et al., 2015). The emotional impact on patients, including feelings of neglect and anxiety, was a significant concern, mirroring the findings of Agyemang-Duah et al. (2019), who observed that language barriers contributed to a sense of isolation and helplessness among poor older people in Ghana (Agyemang-Duah et al., 2019).

Language barriers were found to increase the risk of medication errors, delayed treatments, and compromised consent processes. This finding is consistent with Beauchamp et al. (2022), who identified that minority-language speakers with neurodevelopmental disorders faced heightened risks due to misunderstandings in their care instructions (Beauchamp et al., 2022). Similarly, Chen et al. (2007) emphasized the legal imperative for language access to mitigate such risks and ensure patient safety (Chen et al., 2007).

Delayed treatments due to prolonged wait times and late diagnoses were frequently reported, echoing Boateng et al. (2012)'s study, which highlighted how language barriers delayed healthcare access among Ghanaians in Amsterdam (Boateng et al., 2012). Compromised consent, where patients did not fully understand medical

procedures, was another critical issue, as noted in previous research by Olani et al. (2023), who found that Afaan Oromoo-speaking patients in Addis Ababa often faced misunderstandings during consent processes.

The limited availability of interpreters and inadequate translation services were significant barriers to accessing healthcare. Participants reported that the shortage of qualified interpreters often led to delays and compromised the quality of care. This finding is supported by Meuter et al. (2015), who highlighted the need for professional interpretation services to ensure effective communication (Meuter et al., 2015). Additionally, financial constraints and technological challenges further hindered access, especially for non-native speakers, as reported by Marques et al. (2020), who found that language barriers significantly reduced cervical cancer screening participation among migrant women in Europe (Marques et al., 2020).

Barriers to specialized care and the difficulties associated with navigating referral processes were also noted. This aligns with Tate (2015), who called for more prehospital research on language barriers to understand their impact on emergency care access and effectiveness (Tate, 2015). The compounded effect of these barriers results in significant disparities in healthcare access and outcomes for patients with limited language proficiency. Cultural misunderstandings and trust issues were prevalent among non-native speakers, often leading to a lack of rapport and effective communication between healthcare providers and patients. This issue is consistent with Čebroň (2021), who discussed how language barriers could trigger racism and discrimination in healthcare settings (Čebroň, 2021). Trust issues and the fear of discrimination were major barriers to seeking care (Boateng et al., 2012).

Religious considerations and family dynamics also played critical roles in healthcare interactions, influencing patients' decisions and their acceptance of medical advice. These findings align with the study by Agyemang-Duah et al. (2019), which found that cultural and familial expectations significantly impacted healthcare utilization among older people in Ghana (Agyemang-Duah et al., 2019).

Healthcare professionals faced several challenges, including a lack of training in cultural competence and language skills, leading to stress and burnout. Ali and Watson (2018) also reported that nurses experienced

high levels of frustration and job dissatisfaction when dealing with language barriers (Ali & Watson, 2018). Resource constraints, such as limited time and inadequate materials, further compounded these challenges (Meuter et al., 2015).

Institutional policies often lacked clear guidelines for managing language barriers, resulting in inconsistent practices. Chen et al. (2007) emphasized the need for robust legal and institutional frameworks to support language access in healthcare (Chen et al., 2007). Interprofessional collaboration was also affected, with communication breakdowns and teamwork issues being prevalent. This finding aligns with Al-Yateem (2023), who stressed the importance of effective communication within healthcare teams to ensure quality care (Al-Yateem, 2023).

This study has several limitations that should be acknowledged. First, the sample size was relatively small, with 27 participants, which may limit the generalizability of the findings. While the qualitative approach provided in-depth insights, a larger sample could have offered a more comprehensive understanding of the issues. Second, the study relied on self-reported data from participants, which may be subject to bias. Participants might have exaggerated or underreported their experiences due to recall bias or social desirability bias. Lastly, the study was conducted in a specific geographic and cultural context, which might not be representative of other regions or healthcare settings.

Future research should aim to address these limitations by including larger and more diverse samples to enhance the generalizability of the findings. Longitudinal studies could provide deeper insights into the long-term effects of language barriers on healthcare outcomes. Additionally, quantitative studies could complement the qualitative findings by measuring the impact of specific interventions designed to overcome language barriers. It would also be beneficial to explore the role of technology in mitigating language barriers, such as the effectiveness of telehealth platforms and translation apps in various healthcare settings.

To improve healthcare delivery for patients facing language barriers, several practical steps can be taken. Healthcare institutions should invest in professional interpreter services and ensure their availability during critical times. Training programs focused on cultural

competence and language skills for healthcare providers should be implemented to enhance communication and understanding. Clear institutional policies and guidelines for managing language barriers should be established and consistently applied. Additionally, leveraging technology, such as telehealth services and translation applications, can help bridge communication gaps and improve access to care. Ensuring that these tools are user-friendly and available in multiple languages can significantly enhance their effectiveness.

In conclusion, language barriers in healthcare present significant challenges that impact communication, patient safety, access to services, cultural understanding, and professional practices. Addressing these barriers requires a multifaceted approach, including professional interpreter services, training in cultural competence, clear institutional policies, and the use of technology. By implementing these strategies, healthcare providers can improve patient outcomes and ensure equitable access to care for all patients, regardless of their language proficiency.

Authors' Contributions

Authors contributed equally to this article.

Declaration

In order to correct and improve the academic writing of our paper, we have used the language model ChatGPT.

Transparency Statement

Data are available for research purposes upon reasonable request to the corresponding author.

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Declaration of Interest

The authors report no conflict of interest.

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Ethical Considerations

In this research, ethical standards including obtaining informed consent, ensuring privacy and confidentiality were observed.

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