

# The Role of Pharmacists in Addressing Health Disparities: A Qualitative Study

Saad M. Aldhafyan<sup>1</sup>, Mazen S. Alotaibi<sup>2</sup>, Waseem N. Alshahrani<sup>3</sup>,  
Saad M. S. Altamimi<sup>4</sup>

Pharmacist

Health affairs at the Ministry of National Guard

## Abstract

**Objective:** This study investigates how pharmacists perceive their role in addressing health disparities and providing equitable care to underserved populations.

**Methods:** A qualitative study was conducted involving in-depth interviews with pharmacists from various settings. Thematic analysis was used to identify key themes and sub-themes related to pharmacists' roles, challenges, and strategies in addressing health disparities.

**Results:** Pharmacists recognized significant health disparities and actively engaged in measures such as educational workshops and free screenings. Key challenges included resource limitations and systemic barriers, which impacted their ability to fully address disparities. Pharmacists emphasized the need for enhanced cultural competence training and increased interprofessional collaboration.

**Conclusion:** Pharmacists play a crucial role in mitigating health disparities, but face challenges that limit their effectiveness. Addressing these challenges through improved training and systemic support can enhance their ability to provide equitable care.

**Keywords:** Health Disparities, Pharmacists, Equitable Care, Qualitative Study, Cultural Competence, Interprofessional Collaboration

## Introduction

Health disparities refer to differences in health outcomes and access to healthcare services among various population groups, often influenced by factors such as race, ethnicity, socioeconomic status, and geography (Williams & Mohammed, 2009). These disparities contribute to unequal health outcomes and highlight significant challenges in achieving health equity. Pharmacists, as accessible healthcare professionals, are well-positioned to play a critical role in addressing these disparities by providing equitable care and improving health outcomes among underserved populations (Graabæk and Kjeldsen, 2013).

Pharmacists are uniquely situated within the healthcare system due to their accessibility, expertise in medication management, and involvement in patient education. They often serve as the first point of contact for patients and can provide vital services such as medication counseling, chronic disease management, and health education (Al Hamarneh et al., 2011). Despite this potential, there is a need to better understand how pharmacists perceive their role in addressing health disparities and what strategies they employ to provide equitable care.

Previous research has highlighted the impact of pharmacists in improving medication adherence, managing chronic diseases, and enhancing health outcomes in underserved communities (Davis et al., 2014). However, qualitative insights into pharmacists' perceptions of their role in addressing health disparities are limited. Understanding these perceptions can help identify barriers, facilitators, and opportunities for enhancing the pharmacist's role in promoting health equity.

This study aims to investigate how pharmacists perceive their role in addressing health disparities and providing equitable care to underserved populations. By exploring these perceptions through qualitative methods, the study seeks to contribute to a deeper understanding of the pharmacist's role in promoting health equity and inform strategies for improving care delivery in diverse communities.

## Literature Review

**Health Disparities and Their Impact:** Health disparities are differences in health outcomes and access to healthcare experienced by different population groups due to socioeconomic, racial, or geographic factors (Williams & Mohammed, 2009). These disparities can result in poorer health outcomes, reduced quality of life, and higher healthcare costs among underserved populations (Agency for Healthcare Research and Quality, 2020). Addressing these disparities is crucial for achieving health equity and improving overall population health (Phelan et al., 2010).

**The Role of Pharmacists in Healthcare:** Pharmacists have a significant role in the healthcare system due to their accessibility and expertise in medication management. They provide a range of services, including medication counseling, chronic disease management, and health education (Al Hamarneh et al., 2011). Pharmacists are often the first point of contact for patients seeking healthcare, which positions them uniquely to influence patient health outcomes and improve medication adherence (Graabæk and Kjeldsen, 2013).

**Pharmacists and Health Disparities:** Pharmacists can contribute to reducing health disparities by providing culturally competent care, improving access to medications, and offering health education tailored to the needs of diverse populations (Davis et al., 2014). Research indicates that pharmacist-led interventions, such as medication therapy management and disease management programs, can help address barriers to care and improve health outcomes in underserved communities (Milosavljevic et al., 2018). However, there is limited qualitative research on pharmacists' perceptions of their role in addressing health disparities.

**Qualitative Insights into Pharmacists' Perceptions:** Qualitative studies exploring pharmacists' perceptions of their role in addressing health disparities have identified several key themes. Pharmacists often perceive their role as crucial in managing chronic diseases and providing medication counseling, but they also face barriers such as lack of time, resources, and training (Osae et al., 2022). Understanding these perceptions can provide insights into how pharmacists navigate challenges and opportunities in providing equitable care (Osae et al., 2023).

**Strategies for Enhancing the Pharmacist's Role:** To enhance the pharmacist's role in addressing health disparities, several strategies have been proposed. These include increasing training in cultural competency, expanding the scope of pharmacy practice to include more direct patient care services, and fostering collaborations with other healthcare providers (Avant and Gillespie, 2019). Implementing these strategies can help pharmacists better meet the needs of underserved populations and improve health equity.

Understanding pharmacists' perceptions of their role in addressing health disparities is essential for identifying barriers and facilitators to providing equitable care. By exploring these perceptions, this study aims to contribute to the development of strategies that can enhance the pharmacist's role in promoting health equity and improving outcomes for underserved populations.

## Methodology

**Study Design:** This qualitative study employed semi-structured interviews to explore pharmacists' perceptions of their role in addressing health disparities and providing equitable care to underserved populations. The study was designed to gain in-depth insights into the experiences and views of pharmacists working in various practice settings.

**Participants :** A total of 20 pharmacists were recruited from a tertiary hospital. Participants were selected using purposive sampling to ensure diversity in terms of practice environment, years of experience, and demographic characteristics. Inclusion criteria included being a licensed pharmacist with at least one year of experience in practice and working in a setting where they engage with underserved populations.

**Data Collection:** Semi-structured interviews were conducted with each participant using a pre-defined interview guide. The guide included open-ended questions and prompts designed to elicit detailed responses about participants' experiences and perceptions regarding their role in addressing health disparities. Interviews were conducted in person or via video conference, depending on the participants' preferences and availability. Interviews were audio-recorded with participants' consent and transcribed verbatim. The data collection process spanned three months, from January to March 2024.

**Data Analysis:** Data were analyzed using thematic analysis. The transcriptions were coded inductively to identify recurring themes and patterns. The process involved several steps:

1. **Familiarization:** Researchers read and re-read the transcripts to gain a deep understanding of the data.
2. **Generating Initial Codes:** Initial codes were developed to capture important features of the data relevant to the research questions.
3. **Searching for Themes:** Codes were grouped into potential themes that reflected common patterns and insights.
4. **Reviewing Themes:** Themes were reviewed and refined to ensure they accurately represented the data.
5. **Defining and Naming Themes:** Final themes were defined and named to capture the essence of the findings.

Two researchers independently analyzed the data to enhance credibility and minimize bias. Discrepancies were resolved through discussion and consensus.

**Ethical Considerations:** The study was approved by the ethics committee. Informed consent was obtained from all participants prior to the interviews. Participants were assured of the confidentiality of their responses and were informed that their participation was voluntary and that they could withdraw at any time without consequence.

**Results Validation:** To ensure the validity and reliability of the findings, member checking was performed by sharing preliminary results with a subset of participants for feedback. Additionally, triangulation was used by comparing findings across different practice settings and participant demographics.

## Findings

The qualitative analysis revealed several key themes regarding the role of pharmacists in addressing health disparities and providing equitable care. The findings are organized into main themes and sub-themes, supported by participants' responses.

### Theme 1: Pharmacists' Perceptions of Their Role in Addressing Health Disparities

**Sub-theme 1.1: Recognition of Health Disparities:** Participants acknowledged the existence of health disparities within their communities and recognized their role in mitigating these issues. They described the unequal access to healthcare services and resources among underserved populations.

- **Participant Response:** "In our community, I see a significant number of patients who face barriers to accessing medications and proper healthcare due to financial constraints. As a pharmacist, I try to bridge that gap by providing as much support as possible." – Participant 4

**Sub-theme 1.2: Proactive Engagement:** Pharmacists reported taking proactive steps to address health disparities, such as providing education, advocating for patients, and facilitating access to medications.

- **Participant Response:** "We organize free health screenings and educational workshops to help patients understand their conditions better. It's not just about dispensing medications; it's about empowering patients with knowledge and resources." – Participant 7

### Theme 2: Challenges Faced by Pharmacists in Providing Equitable Care

**Sub-theme 2.1: Resource Limitations:** Pharmacists identified limitations in resources and support as significant barriers to effectively addressing health disparities. These included lack of time, insufficient funding, and inadequate access to resources.

- **Participant Response:** "We often struggle with limited time and resources. I'd love to do more for my patients, but sometimes the constraints of our pharmacy's budget and staffing levels make it difficult." – Participant 12

**Sub-theme 2.2: Systemic Barriers:** Participants pointed out systemic issues such as insurance limitations and bureaucratic hurdles that hinder their ability to provide equitable care.

- **Participant Response:** "Insurance policies often limit what we can do for patients, especially those from low-income backgrounds. Navigating these barriers is a constant challenge in trying to provide equitable care." – Participant 9

### **Theme 3: Strategies for Enhancing the Role of Pharmacists in Addressing Health Disparities**

**Sub-theme 3.1: Enhanced Training and Education:** Pharmacists suggested that additional training and education in cultural competence and health disparities could improve their ability to serve underserved populations effectively.

- **Participant Response:** "More training on cultural competence and understanding the unique needs of different populations would really help us be more effective in our roles. It would enable us to tailor our services better to meet the diverse needs of our patients." – Participant 6

**Sub-theme 3.2: Increased Collaboration with Other Healthcare Providers:** Participants emphasized the importance of collaborative approaches with other healthcare professionals to address health disparities more effectively.

- **Participant Response:** "Working closely with other healthcare providers, such as social workers and community health workers, can enhance our ability to address the broader issues affecting our patients. Collaboration helps us to provide more comprehensive care." – Participant 15

### **Theme 4: Impact of Pharmacist-Led Interventions**

**Sub-theme 4.1: Positive Outcomes for Patients:** Pharmacists reported positive outcomes from their interventions, including improved patient health outcomes and increased patient satisfaction.

- **Participant Response:** "We've seen significant improvements in patients' health outcomes when we implement targeted interventions, such as medication management and disease education programs. Patients are more engaged and proactive in their care." – Participant 11

**Sub-theme 4.2: Challenges in Measuring Impact:** While pharmacists recognized the positive outcomes, they also faced challenges in measuring and documenting the impact of their interventions due to lack of standardized metrics.

- **Participant Response:** "It's challenging to measure the exact impact of our interventions because there aren't always standardized ways to document and quantify the benefits we're providing. More structured evaluation methods would be helpful." – Participant 19

## **Discussion**

This study aimed to explore how pharmacists perceive their role in addressing health disparities and providing equitable care to underserved populations. The findings indicate that pharmacists are acutely aware of the health disparities within their communities and are actively engaged in efforts to mitigate these issues. However, they face significant challenges that impact their ability to fully address these disparities.

## **Key Findings and Their Implications**

**Recognition of Health Disparities:** Pharmacists in this study acknowledged the existence of health disparities and recognized their role in bridging the gap. Participants frequently cited financial barriers and inadequate access to healthcare resources as major issues affecting their patients. This finding aligns with previous research highlighting the role of pharmacists in identifying and addressing social determinants of health (Kalabalik-Hoganson et al., 2022). By understanding the barriers their patients face, pharmacists can tailor their interventions to better meet the needs of underserved populations.

## **Proactive Engagement:**

Pharmacists reported engaging in proactive measures such as educational workshops and free health screenings. This active involvement is consistent with literature showing that pharmacist-led interventions can improve patient outcomes and enhance health literacy (Al-Omar et al., 2019). However, despite these efforts, the impact of such interventions can be constrained by systemic barriers and resource limitations.

**Challenges Faced by Pharmacists:** The study identified several challenges, including resource limitations and systemic barriers such as insurance restrictions. These challenges echo findings from other studies that highlight the constraints pharmacists face in implementing effective interventions (Babar and Scahill, 2014). Addressing these barriers requires systemic changes, including better funding for pharmacy services and more supportive policies that facilitate equitable care.

**Strategies for Enhancing Pharmacists' Roles:** Pharmacists emphasized the need for enhanced training in cultural competence and increased collaboration with other healthcare providers. These strategies are supported by evidence suggesting that cultural competence training can improve pharmacists' ability to serve diverse populations. Additionally, interprofessional collaboration has been shown to enhance the effectiveness of healthcare interventions by providing a more holistic approach to patient care (Bazaldua and Sias, 2004).

**Impact of Pharmacist-Led Interventions:** The positive outcomes reported by pharmacists, such as improved patient health and increased satisfaction, underline the effectiveness of pharmacist-led programs. However, the challenge of measuring impact highlights the need for standardized evaluation methods. Previous research has similarly noted difficulties in quantifying the benefits of pharmacy interventions (Vo et al., 2016). Developing robust metrics for evaluating the effectiveness of pharmacist-led programs could help in demonstrating their value and securing further support.

**Limitations:** This study's findings are based on qualitative data from a limited number of participants, which may not fully represent the experiences of all pharmacists. Additionally, the subjective nature of qualitative research means that the findings are influenced by participants' perspectives and may not capture all aspects of the issue.

**Future Directions:** Future research should focus on developing standardized metrics for evaluating the impact of pharmacist-led interventions. Additionally, exploring ways to overcome systemic barriers and resource limitations could enhance pharmacists' ability to provide equitable care. Further studies could also investigate the effectiveness of specific training programs in improving cultural competence and the impact of interprofessional collaboration on patient outcomes.

## Conclusion

Pharmacists play a crucial role in addressing health disparities and providing equitable care. While they are actively engaged in efforts to mitigate these disparities, challenges such as resource limitations and systemic barriers need to be addressed. Enhancing training, fostering collaboration, and developing robust evaluation methods are essential steps in improving the effectiveness of pharmacist-led interventions and ensuring that underserved populations receive the care they need.

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