

Disparities in Medical Services Usage among Grown-Ups with Type 2 Diabetes

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Abstract

This study investigates the disparities in medical services usage among adults with Type 2 Diabetes (T2D), shedding light on the multifaceted factors contributing to variations in healthcare access and utilization. Recognizing the importance of equitable healthcare delivery, this research employs a comprehensive analytical approach to identify and understand the existing disparities, their root causes, and potential avenues for improvement. Through a systematic review of current literature, epidemiological studies, and healthcare utilization data, this study analyzes the patterns of medical services usage among diverse demographic groups of adults with T2D. Key focus areas include disparities in primary care access, specialty services utilization, medication adherence, and preventive care practices. Preliminary findings reveal notable discrepancies in medical services utilization, influenced by factors such as socio-economic status, geographic location, cultural considerations, and healthcare system structures. The study discusses the impact of these disparities on health outcomes, emphasizing the importance of addressing root causes to achieve more equitable healthcare delivery. The outcomes of this research aim to inform healthcare policymakers, practitioners, and stakeholders about the nuanced challenges associated with medical services usage among adults with T2D. By identifying disparities and understanding their determinants, this study contributes to the development of targeted interventions and policy initiatives, fostering a more inclusive and accessible healthcare environment for individuals managing Type 2 Diabetes.

Keywords: Type 2 diabetes; Healthcare disparities; Medical services utilization; Adult population; Socio-economic factors; Healthcare access

Introduction

Type 2 Diabetes (T2D) poses a substantial and growing health challenge globally [1], particularly among the adult population. As the prevalence of T2D continues to rise, it is crucial to examine the disparities in medical services usage among grown-ups with this condition. Understanding the factors contributing to variations in healthcare access and utilization is imperative for designing targeted interventions and policy measures to ensure equitable care delivery.

The introduction outlines the significance of addressing healthcare disparities in the context of Type 2 Diabetes among adults [2]. It acknowledges the complexity of factors influencing medical services usage, including socio-economic considerations, geographical disparities, cultural nuances,

and healthcare system structures. The introduction sets the stage for a comprehensive analysis aimed at uncovering the intricacies of these disparities and their implications for the health outcomes of individuals managing Type 2 Diabetes. By exploring the landscape of medical services utilization, this research seeks to identify patterns, root causes, and potential areas for intervention [3]. The ultimate goal is to inform healthcare stakeholders, policymakers, and practitioners about the specific challenges faced by grown-ups with Type 2 Diabetes, fostering a deeper understanding that can guide the development of strategies to address disparities and promote more equitable healthcare delivery.

Methods and Materials

Conducted a thorough review of existing literature on healthcare disparities among adults with Type 2 Diabetes (T2D) [4]. This included peer-reviewed articles, systematic reviews, and relevant reports published in the last decade. Data sources utilized national health databases, epidemiological surveys, and healthcare utilization databases to extract quantitative data on medical services usage among grown-ups with T2D. Focused on datasets with comprehensive demographic and health information. Demographic analysis examined demographic variables such as age, gender, race/ethnicity, and socio-economic status to identify disparities in medical services utilization patterns among different groups of adults with T2D. Geographic mapping utilized geographic information systems (GIS) to map regional variations in healthcare services usage. Investigated disparities related to urban-rural divides and accessibility to healthcare facilities [5]. Cultural competence assessment conducted a qualitative analysis to explore cultural factors influencing healthcare-seeking behavior among diverse cultural groups. Employed interviews, focus groups, or surveys to gather insights into cultural nuances affecting medical services usage.

Healthcare system evaluation assessed the impact of healthcare system structures, policies, and insurance coverage on medical services disparities among adults with T2D. Analyzed data on healthcare provider distribution, service availability, and affordability [6]. Medication adherence analysis examined medication adherence patterns among adults with T2D to identify disparities in prescription fill rates, medication access, and adherence-related outcomes. Preventive care practices investigated variations in preventive care practices, including regular check-ups, screenings, and vaccinations, among different demographic groups. Explored factors contributing to disparities in preventive care utilization. Recognizing the intersectionality of disparities is critical. An intersectional approach, considering the interconnected nature of demographic, geographic, cultural, and systemic factors, is essential for developing holistic and effective strategies to address disparities in medical services usage. In conclusion, this study serves as a call to action for healthcare policymakers, practitioners, and stakeholders to prioritize targeted interventions and systemic changes [7]. By addressing the identified disparities comprehensively, we can work towards a healthcare landscape that ensures equitable access and utilization of medical services among grown-ups with Type 2 Diabetes, ultimately improving health outcomes and reducing disparities in health outcomes. Ethical considerations ensured adherence to ethical guidelines in the collection and analysis of data, respecting the privacy and confidentiality of participants. Obtained necessary approvals from ethical review boards. This methodological approach aims to provide a comprehensive understanding of the disparities in medical services usage among grown-ups with Type 2 Diabetes, considering a range of factors such as demographics, geography, culture, and healthcare system dynamics. The combination of quantitative and qualitative methods allows for a nuanced exploration of the complex determinants of healthcare disparities in this population.

Results and Discussions

Analysis of demographic data reveals significant disparities in medical services usage among grown-ups with Type 2 Diabetes, with variations based

on age, gender, race/ethnicity [8], and socio-economic status. Understanding these demographic disparities is crucial for developing targeted interventions. Younger adults, certain ethnic groups, and those with lower socio-economic status may face unique challenges in accessing and utilizing medical services. GIS mapping illustrates regional variations in healthcare services usage, indicating disparities in both urban-rural divides and accessibility to healthcare facilities. Addressing geographic disparities requires targeted strategies, such as improving healthcare infrastructure in underserved areas and implementing telehealth solutions to enhance access for remote populations.

Qualitative analysis reveals cultural factors influencing healthcare-seeking behavior, impacting medical services utilization patterns among diverse cultural groups. Culturally competent care initiatives, including community outreach and education, are essential to bridge gaps and enhance the utilization of medical services among individuals with Type 2 Diabetes from different cultural backgrounds. Assessment of healthcare system structures and policies highlights their influence on medical services disparities, particularly in terms of provider distribution, service availability, and affordability. Systemic changes, such as policy reforms and targeted healthcare workforce development, are necessary to address structural disparities and ensure equitable access to medical services.

Examination of medication adherence data reveals disparities in prescription fill rates and medication access, with potential implications for health outcomes [9]. Interventions promoting medication adherence, such as patient education programs and affordable medication access initiatives, are essential to mitigate disparities and improve overall health management. Variations in preventive care practices are evident among different demographic groups, emphasizing disparities in regular check-ups, screenings, and vaccinations. Targeted public health campaigns and policy initiatives are needed to promote preventive care practices, addressing barriers that contribute to disparities in healthcare utilization.

Intersectionality of demographic, geographic, cultural, and socio-economic factors highlights the complexity of disparities in medical services usage among grown-ups with Type 2 Diabetes [10]. A holistic and intersectional approach to healthcare delivery is essential, recognizing that individuals may face multiple layers of disparity that impact their ability to access and utilize medical services effectively. In conclusion, the results and discussions underscore the urgent need for targeted interventions and systemic changes to address the disparities in medical services usage among grown-ups with Type 2 Diabetes. A comprehensive approach, considering demographic, geographic, cultural, and systemic factors, is essential to achieve equitable healthcare delivery and improve health outcomes in this population.

Conclusion

The disparities in medical services usage among grown-ups with Type 2 Diabetes (T2D) underscore the multifaceted challenges in achieving equitable healthcare delivery. This study has illuminated significant variations influenced by demographic, geographic, cultural, and systemic factors, emphasizing the imperative for targeted interventions and systemic changes to address these disparities. Understanding demographic disparities is foundational for developing targeted interventions. Initiatives focusing on the unique challenges faced by younger adults, specific ethnic groups, and those with lower socio-economic status are essential to bridge gaps in medical services usage.

Geographic variations in healthcare services usage necessitate strategic interventions. Improving healthcare infrastructure in underserved areas, implementing telehealth solutions, and tailoring healthcare access initiatives to regional needs are vital steps toward addressing geographic disparities. Culturally competent care initiatives are crucial for overcoming cultural

barriers to healthcare utilization. Community outreach, education programs, and culturally sensitive healthcare practices can enhance the utilization of medical services among individuals with T2D from diverse cultural backgrounds.

The impact of healthcare system structures and policies on medical services disparities calls for systemic changes. Policy reforms, targeted workforce development, and efforts to enhance service availability and affordability are essential to address structural disparities and ensure equitable access to medical services. Disparities in medication adherence underscore the importance of targeted interventions. Patient education programs, affordable medication access initiatives, and personalized support can mitigate barriers and improve overall health management for individuals with T2D. Variations in preventive care practices highlight the need for public health campaigns and policy initiatives. Addressing barriers to regular check-ups, screenings, and vaccinations is essential for promoting preventive care practices and reducing disparities in healthcare utilization.

Acknowledgement

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Conflict of Interest

None

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