

International Journal of Medicine Sciences

www.medicinejournal.in

Online ISSN: 2664-889X, Print ISSN: 2664-8881

Received: 15-11-2021 Accepted: 21-12-2021: Published: 28-12-2021

Volume 3, Issue 1, 2021, Page No. 17-19

DOI: https://doi.org/10.33545/26648881.2021.v3.i1a.42

Analysing the socioeconomic impact of improved hygiene practices in urban and rural settings

Ahmed Hussen and Omar Kamal

Department of Science, Farhangian University, Talegani Street, Tabriz, Iran

Abstract

Improved hygiene practices have a profound impact on public health and socioeconomic development in both urban and rural settings. This review article examines the multifaceted effects of enhanced hygiene practices on various aspects of society, including health outcomes, education, economic productivity, and overall well-being. By analysing the available literature, this article highlights the importance of investing in hygiene promotion programs to achieve sustainable development goals and improve the quality of life for individuals and communities worldwide.

Keywords: Hygiene practices, education, economic productivity, goals

Introduction

Hygiene practices are universally recognized as fundamental pillars of public health and well-being. Access to clean water, proper sanitation facilities, and the adoption of hygienic behaviors are cornerstones of disease prevention, human dignity, and overall socioeconomic development. However, despite the global recognition of their importance, disparities in hygiene practices persist, particularly between urban and rural settings. Urban areas, characterized by higher population densities, infrastructure development, and access to resources, often enjoy more robust hygiene infrastructure and services. Conversely, rural settings, which comprise a significant portion of the global population, frequently face considerable challenges related to hygiene. These challenges encompass limited access to clean water, sanitation facilities, and healthcare services, which can perpetuate the cycle of poverty and ill health. In recent years, there has been a growing awareness of the multifaceted implications of improved hygiene practices, extending beyond health benefits to encompass various socioeconomic dimensions. Hygiene interventions have the potential to yield substantial dividends by reducing healthcare costs, increasing productivity, enhancing educational outcomes, and fostering community development. This research article embarks on an in-depth exploration of the socioeconomic impact of improved hygiene practices in both urban and rural settings. By delving into the intricate interplay between hygiene behaviors and socioeconomic variables, we seek to uncover the underlying dynamics and evaluate the tangible benefits associated with these practices. Our study is guided by a multifaceted research framework that examines health outcomes, education, economic productivity, and community development in relation to improved hygiene practices. We aim to shed light on the disparities between urban and rural contexts, identifying commonalities and distinctions in the socioeconomic impact of hygiene interventions. As the world grapples with the dual challenges of rapid urbanization and persistent rural development gaps, understanding the role of improved hygiene practices in shaping the future becomes increasingly crucial. Our findings hold the potential to inform policy decisions, resource allocation, and development strategies, ultimately contributing to more equitable and sustainable societies. In the following sections, we delve into the various dimensions of this research, from the health outcomes associated with hygiene practices to the economic and educational implications and the broader community development effects. Through rigorous analysis and comprehensive synthesis of existing knowledge, we aim to provide valuable insights into the transformative power of improved hygiene practices and their pivotal role in shaping the socioeconomic landscape of urban and rural settings.

Objective of the study

To Analyse the Socioeconomic Impact of Improved Hygiene Practices in Urban and Rural Settings

Literature Review

Hygiene promotion initiatives in both urban and rural areas foster community development. Engagement in hygiene projects creates a sense of ownership and social cohesion, leading to more resilient communities (Kumar *et al.*, 2015). Improved hygiene practices, including menstrual hygiene management, enhance the dignity and safety of women and girls, contributing to gender equality and women's empowerment (UNICEF & WHO, 2018). Furthermore, effective hygiene practices reduce health inequalities within communities, promoting inclusivity and equitable development (WHO, 2019).

Health Outcomes

Reduced Disease Burden

Improved hygiene practices, including hand washing with soap and clean water, proper sanitation facilities, and safe food handling, lead to a substantial reduction in the transmission of infectious diseases. Diarrhea is a leading cause of morbidity and mortality, especially among children in low-income countries. Improved access to clean water sources, safe sanitation facilities, and hygiene education can significantly reduce the incidence of diarrheal diseases. Proper disposal of human waste, along with handwashing after using the toilet, can prevent the contamination

of water sources and the subsequent spread of pathogens. Cholera outbreaks are closely linked to inadequate sanitation and poor hygiene practices. Improved sanitation infrastructure and access to clean water can effectively prevent cholera transmission, saving lives and reducing the economic burden on healthcare systems. Handwashing with soap and water is a simple yet highly effective measure to prevent respiratory infections, including those caused by viruses like influenza and the common cold. Good respiratory hygiene practices, such as covering one's mouth and nose when coughing or sneezing, further reduce the spread of infectious agents. In both urban and rural settings, improved hygiene practices have a direct impact on child survival and development. Promoting exclusive breastfeeding for the first six months of life is a key component of infant and child health. Improved hygiene practices, such as clean hands and proper breastfeeding techniques, reduce the risk of infections in newborns and infants. Access to safe and clean drinking water is essential for infants and young children. Hygiene practices that ensure the safe storage and handling of water prevent waterborne illnesses and contribute to child health.

Adequate sanitation facilities, especially in rural areas, prevent the contamination of living environments and reduce the risk of infections in children. Proper disposal of feces and maintaining clean and safe sanitation facilities play a critical role in reducing child mortality. Improved hygiene practices not only address immediate health concerns but also have long-term benefits.

Education

Increased School Attendance

- **a.** Clean Water Supply: Access to clean water in schools ensures that students can easily access safe drinking water throughout the day. This reduces the chances of dehydration and waterborne diseases, which can lead to absenteeism. Children are more likely to attend school regularly when they have reliable access to clean water.
- **b. Sanitation Facilities:** Proper sanitation facilities, including clean and functional toilets, are essential for students' comfort and dignity. When schools lack suitable sanitation facilities, students, especially girls, may stay home during menstruation, leading to missed school days. Improved sanitation facilities in schools encourage regular attendance.

Hygiene Education

- **a. Behavior Change:** Hygiene education programs in schools promote behavior change among students. They teach students about the importance of handwashing, safe food handling, and personal hygiene. These programs not only improve students' health but also encourage them to share hygiene knowledge with their families and communities.
- **b. Life Skills:** Hygiene education provides students with essential life skills that go beyond school. These skills include disease prevention, personal hygiene, and the ability to make informed decisions about health and sanitation. Such skills contribute to a healthier and more informed population.

Economic Productivity Reduced Healthcare Costs

a. Fewer Healthcare Expenditures: Improved hygiene

practices lead to a decrease in the incidence of waterborne and foodborne diseases, as well as respiratory infections. This reduction in illness results in lower healthcare expenditures for both individuals and governments. Fewer doctor visits, hospitalizations, and medication costs contribute to overall cost savings in the healthcare sector.

b. Less Burden on Healthcare Systems: A healthier population places less strain on healthcare systems, freeing up resources that can be allocated to other essential healthcare services or infrastructure development. This, in turn, can lead to improved healthcare quality and accessibility.

Community Development

Improved Livelihoods in Rural Areas

- **a.** Agricultural Productivity: In rural settings, access to clean water for irrigation is vital for agriculture. Improved hygiene practices that ensure safe water sources for irrigation can lead to increased agricultural productivity, higher crop yields, and improved food security. This, in turn, enhances the economic well-being of farming communities.
- **b. Livestock Management:** Proper sanitation practices related to animal husbandry, including waste management and hygiene, contribute to healthier livestock. Healthy animals are more productive, providing rural communities with a sustainable source of income and nutrition.

Safe Sanitation and Waste Management

- **a. Environmental Protection:** Improved sanitation facilities and waste management practices contribute to cleaner and healthier environments in both urban and rural areas. This reduces environmental contamination, preventing the spread of diseases and improving overall quality of life.
- **b. Reduced Water Pollution:** Safe disposal of human waste and waste from livestock and industries prevents water pollution, ensuring the availability of clean water sources. Clean water is essential for drinking, agriculture, and ecosystem sustainability.

Gender Empowerment

- **a. Improved Women's and Girls' Dignity:** Adequate sanitation facilities, particularly for menstruation, enhance the dignity and safety of women and girls. This empowerment enables them to engage more actively in community development activities and educational pursuits.
- **b. Reduced Burden on Women:** Access to clean water and sanitation facilities reduces the time and effort women and girls must expend on tasks like water collection and managing sanitation needs. This frees up their time for other productive activities, including income-generating work and community involvement.

Community Health and Well-being

- **a. Reduced Disease Burden:** Improved hygiene practices lead to lower rates of waterborne and foodborne illnesses, respiratory infections, and other communicable diseases. This results in healthier communities with improved overall well-being.
- b. Child and Maternal Health: Reduced illness rates, improved

access to clean water, and proper sanitation contribute to better child and maternal health outcomes. Lower child mortality rates and healthier mothers lead to stronger and more resilient communities.

Community Education and Awareness

- **a. Hygiene Promotion:** Community-wide hygiene education programs raise awareness about the importance of hygiene practices. Communities become more informed about disease prevention, personal hygiene, and proper sanitation, leading to better health outcomes.
- **b. Behavior Change:** As community members adopt improved hygiene practices, they become role models for others, further promoting behavior change within the community. This creates a culture of hygiene and health consciousness.

Social Cohesion and Community Engagement

- **a. Participation in Hygiene Initiatives:** Engagement in hygiene promotion initiatives, such as the construction of communal sanitation facilities or water management projects, fosters a sense of community ownership and cohesion. Communities become more resilient and better equipped to address challenges collectively.
- **b. Reduction in Health Inequalities:** Improved hygiene practices benefit all community members, regardless of their socioeconomic status. This helps reduce health inequalities within communities, promoting a more equitable and inclusive society.

Economic Development

- **a.** Entrepreneurship and Business Opportunities: Improved hygiene practices can create economic opportunities within communities, such as the establishment of businesses related to water purification, sanitation, and hygiene products and services. These businesses stimulate local economies and create jobs.
- **b. Tourism and Local Economy:** In urban and rural areas alike, communities that prioritize hygiene and cleanliness can attract more tourists, leading to increased revenue for local businesses and improved economic prospects.

Conclusion

Improved hygiene practices have a profound socioeconomic impact on urban and rural settings. They lead to better health outcomes, increased educational opportunities, enhanced economic productivity, and community development. Investing in hygiene promotion programs and infrastructure development is crucial for achieving sustainable development goals and improving the quality of life for individuals and communities worldwide. To create lasting change, it is essential to address the challenges and barriers that hinder access to improved hygiene practices and promote behaviour change at all levels of society.

References

 Joshi A, Amadi C. Impact of water, sanitation, and hygiene interventions on improving health outcomes among school children. Journal of environmental and public health. 2013

- Dec 28;2013.
- Nath KJ. Home hygiene and environmental sanitation: a country situation analysis for India. International Journal of Environmental Health Research. 2003 Jan 1;13(sup1):S19-28.
- Garn JV, Sclar GD, Freeman MC, Penakalapati G, Alexander KT, Brooks P, et al. The impact of sanitation interventions on latrine coverage and latrine use: A systematic review and meta-analysis. International journal of hygiene and environmental health. 2017 Apr 1;220(2):329-40.
- 4. Isunju JB, Schwartz K, Schouten MA, Johnson WP, Van Dijk MP. Socio-economic aspects of improved sanitation in slums: a review. Public health. 2011 Jun 1;125(6):368-76.
- Fewtrell L, Kaufmann RB, Kay D, Enanoria W, Haller L, Colford JM. Water, sanitation, and hygiene interventions to reduce diarrhoea in less developed countries: a systematic review and meta-analysis. The Lancet infectious diseases. 2005 Jan 1;5(1):42-52.
- 6. Sankaran V. Water, sanitation, hygiene and Swachh Bharat: An anthropological analysis. Int. J. Adv. Chem. Res. 2020;2(1):13-16. DOI: 10.33545/26646781.2020.v2.i1a.17
- 7. Rah JH, Cronin AA, Badgaiyan B, Aguayo VM, Coates S, Ahmed S. Household sanitation and personal hygiene practices are associated with child stunting in rural India: a cross-sectional analysis of surveys. BMJ open; c2015, 5(2).
- 8. Abubakar IR. Access to sanitation facilities among Nigerian households: determinants and sustainability implications. Sustainability. 2017 Apr 5;9(4):547.