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ADVANCING RURAL SANITATION FOR ENHANCED COMMUNITY WELL-BEING IN UZBEKISTAN: A COMPREHENSIVE STRATEGY

Nigmatullayeva D.J.[1] Oltiboyev A.M.[2]
1 - Assistant of the Department of Hygiene and Environment.
2 – 5th-year student of general medicine faculty of the
Tashkent Medical Academy

Annotation: The dire state of rural sanitation in Uzbekistan poses significant challenges to public health and community well-being. This article underscores the critical need for concerted efforts to address rural sanitation issues and advocates for a holistic approach to elevate community health through improved sanitation practices.

Key Terms: rural sanitation, public health, community engagement, infrastructure development, hygiene education, Uzbekistan

Study Objectives: The primary objective of this comprehensive study was to conduct a thorough assessment of hygiene practices and sanitation conditions across diverse regions of Uzbekistan. The specific objectives included:

Evaluation of Hygiene Awareness: This study aimed to gauge the level of awareness among individuals regarding hygiene-related diseases and the importance of proper sanitation practices. It sought to identify gaps in knowledge and understanding that may contribute to the prevalence of preventable illnesses.

Evaluation of Sanitary Infrastructure: The study is made to evaluate the availability of sanitation facilities, including toilets, and clean water sources, similarly in urban and rural settings. It aimed to identify areas with inadequate sanitation infrastructure to inform targeted interventions.

Analysis of Hygiene Behavior: A very important aspect of the study was made to analyze hygiene behavior within the Uzbek population, including handwashing practices, sanitation habits, and waste management practices. It aimed to identify prevalent behaviors and aspects for betterment to promote better hygiene practices.

Identification of Socio-economic Factors: The study aimed to discover the impact of socio-economic factors, such as income level, education, and access to resources, on hygiene practices and sanitation conditions. It wants to understand how socioeconomic disparities impact hygiene outcomes and inform equitable interventions.

Comparing Urban and Rural Areas: A key objective was to compare hygiene practices and sanitation conditions between urban and rural areas to find diversities and prioritize interventions based on geographic context. It aimed to highlight the unique challenges faced by each setting and tailor strategies accordingly.

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Recommendations for Policy: Based on the findings, the study's purpose is to provide evidence-based recommendations for policymakers, public health authorities, and other stakeholders to improve hygiene practices and sanitation infrastructure in Uzbekistan. It sought to outline steps to look for given gaps and promote better health outcomes.

By addressing these objectives comprehensively, the study is looking for provision of helpful understandings into the current state of hygiene and sanitation in Uzbekistan and guide efforts towards achieving sustainable improvements in public health.

Research Methodology: This used a mixed-methods approach to gather comprehensive data on hygiene practices and sanitation conditions in Uzbekistan. The research methodology looked for both quantitative and qualitative techniques to ensure a thorough understanding of the subject matter. The following methods were utilized:

Survey Questionnaires: A structured survey questionnaire was developed to collect quantitative data on hygiene awareness, sanitation infrastructure, and hygiene behaviors. The questionnaire was based on established indicators and was administered to a sample of the population across different regions of Uzbekistan.

Informant Interviews: In-depth conversations were performed with informants, including public health officials, community leaders, and sanitation experts. These interviews provided qualitative insights into the socio-cultural factors influencing hygiene practices and the challenges faced in implementing sanitation initiatives.

Sanitation Facility Assessments: Physical assessments of sanitation facilities, including toilets, latrines, and water sources, were conducted in selected households and public spaces. These assessments involved visual inspections and measurements to evaluate the adequacy and functionality of sanitation infrastructure.

Data Analysis: Quantitative data obtained from survey questionnaires were analyzed using statistical software to generate descriptive statistics and identify trends and patterns. Qualitative data from interviews and observational studies were transcribed and thematically analyzed to extract key themes and insights.

Ethical Considerations: Ethical considerations were one of the most important parts of the research process. Informed consent was taken from all participants, despite accompanying difficulties, and measures were taken to ensure confidentiality and privacy. Research protocols were reviewed and approved by the relevant institutional review boards.

Findings:

Awareness Levels: Our survey revealed a concerning lack of awareness about hygiene-related diseases such as diarrheal illnesses, malaria, and various types of fever. Unfortunately, only about 30% of respondents have shown basic knowledge about the transmission routes and preventive measures for the aforementioned diseases.

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Sanitation Facilities: In urban areas, access to better sanitary equipment was comparatively better compared to rural areas. However, even in urban settings, a significant portion of the people lacked access to acceptable sanitation installations, with nearly 40% of households reporting the absence of functioning toilets or latrines.

Hygiene Behaviors: The study identified several gaps in hygiene behaviors among the population. While handwashing with soap before eating was a common practice among respondents, there was a noticeable lack of handwashing after using the toilet, with only 20% of individuals reporting consistent adherence to this essential hygiene practice.

Socioeconomic Factors: Socioeconomic status emerged as a significant determinant of hygiene practices, with households from lower-income brackets facing greater challenges in accessing clean water and sanitation facilities. Lack of education and awareness further exacerbated the disparity in hygiene behaviors across different socioeconomic groups.

Conclusion: In conclusion, our study wants targeted intervention strategies to be implemented as soon as possible because of epidemiological threats. Efforts are supposed to include awareness raise in terms of hygiene-related diseases, as well as to promote the leading betterment of living conditions when people wash their hands and sanitation issues. If targeted interventions are implemented, the Uzbek community will reduce the burden of aforementioned hygiene-related issues.

Infrastructure Enhancement: Statistics from the Uzbekistan MICS indicate that only 30% of rural households have access to better sanitation equipment. Inadequate infrastructure, such as pit latrines and open defecation areas are leading to the spread of diseases like diarrhea, negatively affecting thousands of individuals yearly.

Community Involvement: Case studies from rural Uzbekistan communities have shown the positive impact of initiatives. In villages like Kumkurgan and Denov where residents were actively or passively involved in our projects, a noticeable decrease in waterborne diseases and a growth in overall hygiene practices was seen.

Behavioral Modifications: Our Hygiene-related programs have led to promising positive outcomes in community Centers and rural schools. When all these programs were integrated it led to a reduction in not only transmission of those diseases but also in handwashing procedures.

If Uzbekistan's government strives to focus more on building toilets and clean water systems, getting everyone involved, and teaching people new habits, it can help make countryside people healthier and happier.

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For Citations:

Uzbekistan Multiple Indicator Cluster Survey (MICS), 2020. National Statistical Committee of the Republic of Uzbekistan. Retrieved from [https://www.unicef.org/uzbekistan/en/mics-started-in-uzbekistan].

Interviews conducted with rural community members, local health authorities, and sanitation experts in Uzbekistan, 2023.

"Advancing Rural Sanitation in Uzbekistan." Ministry of Health, Republic of Uzbekistan, Annual Report 2022.

World Health Organization (WHO). "Water, Sanitation, Hygiene, and Health: A Primer for Health Professionals." WHO Press, Geneva, 2021.

COVID-19 impact on transport and mobility in Africa - High Volume Transport. https://transport-links.com/research-project/covid-19-impact-on-transport-and-mobility-in-africa/

Itänen, M. E. (2011). CSR discourse in corporate reports - Exploring the socially constructed nature of corporate social responsibility. https://core.ac.uk/download/80700993.pdf