Water, Sanitation, and Hygiene (WASH) and Diarrheal Diseases Among Under-fives: A Public Health Perspective.

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1.0 Introduction:

The health of children under the age of five is of paramount importance for the well-being of communities and nations. Diarrheal diseases, a major contributor to morbidity and mortality in this age group, are often linked to inadequate Water, Sanitation, and Hygiene (WASH) conditions. This article explores the critical connection between WASH and diarrheal diseases among under-fives from a public health perspective, highlighting the importance of addressing these factors to promote child health.

1.1 Water Quality and Diarrheal Diseases:

Access to clean and safe drinking water is fundamental for preventing waterborne diseases, including diarrheal illnesses. Contaminated water sources can harbor pathogens such as bacteria, viruses, and parasites, leading to frequent episodes of diarrhea in young children (Prüss-Üstün et al., 2019). Implementing water quality monitoring programs and improving water supply infrastructure are essential components of public health strategies to reduce diarrheal diseases.

1.2 Sanitation Practices and Disease Prevention:

Inadequate sanitation facilities contribute significantly to the spread of diarrheal diseases. Open defecation, poor waste disposal, and lack of proper sanitation infrastructure expose children to fecal-oral transmission routes for pathogens (Fewtrell et al., 2007). Public health interventions that focus on promoting improved sanitation practices, such as the construction of latrines and the establishment of proper waste management systems, are crucial for preventing diarrheal diseases among under-fives.

1.3 Hygiene Promotion and Behavioral Change:

Proper hygiene practices, including handwashing with soap, play a pivotal role in reducing the transmission of diarrheal pathogens. Children, due to their exploratory behavior and developing immune systems, are particularly vulnerable to infections. Hygiene promotion campaigns that emphasize the importance of handwashing at critical times, such as before meals and after using the toilet, contribute significantly to reducing the incidence of diarrheal diseases (Curtis et al., 2000).
1.4 Integrated WASH Interventions:

Public health initiatives that integrate water, sanitation, and hygiene interventions have demonstrated success in reducing diarrheal diseases among under-fives. Comprehensive programs that address the interconnected nature of WASH factors contribute to sustained improvements in child health outcomes (Clasen et al., 2014). This holistic approach involves community engagement, infrastructure development, and behavior change communication to create lasting improvements in WASH conditions.

1.5 Impact on Public Health Systems:

The burden of diarrheal diseases among under-fives places a strain on public health systems, particularly in low-resource settings. Integrated WASH interventions not only improve child health but also alleviate the burden on healthcare facilities, reducing the demand for treatment of preventable diseases (Wolf et al., 2014). This, in turn, allows for the reallocation of resources to address other public health priorities.

2.0 Conclusion:

Addressing the nexus between WASH conditions and diarrheal diseases among under-fives is crucial for achieving public health goals and ensuring the well-being of future generations. Public health strategies must prioritize access to clean water, improved sanitation facilities, and hygiene promotion to effectively reduce the incidence of diarrheal diseases in this vulnerable age group. By investing in comprehensive WASH interventions, communities and nations can pave the way for healthier, more resilient societies.

3.0 References:

- Wolf, J., Hunter, P. R., Freeman, M. C., Cumming, O., Clasen, T., Bartram, J., ... & Higgins, J. P. (2014). Impact of drinking water, sanitation and handwashing with soap on childhood diarrhoeal disease: updated meta-analysis and meta-regression. Tropical Medicine & International Health, 19(8), 917-927.

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