



Water Sanitation Technologies and Child Mortality Reduction: A Theoretical Framework in Northern Ghana Rural Communities

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Abstract

In northern Ghana's rural communities, child mortality rates remain high, with water sanitation technologies playing a critical role in mitigating these risks. A theoretical framework was developed through literature review, expert consultation, and secondary data analysis focusing on socio-economic factors and technological interventions. Theoretical insights suggest that comprehensive water sanitation solutions combined with educational outreach can significantly impact child survival outcomes in rural settings. Policy makers should prioritise the integration of water sanitation technologies and public health education into rural development strategies to enhance child mortality reduction efforts.

Keywords: *Sub-Saharan, sanitation, epidemiology, intervention, accessibility, sustainability, community engagement*

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