



Methodological Assessment of Quasi-Experimental Designs in Nigerian Municipal Water Systems Evaluations

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Abstract

The assessment of municipal water systems in Nigeria has been hampered by a lack of rigorous methodological frameworks. A review and critique of existing quasi-experimental designs, focusing on their applicability and limitations in Nigerian contexts. This paper highlights the need for tailored quasi-experimental approaches that incorporate local conditions to enhance evaluation accuracy. Researchers should consider incorporating community engagement and long-term monitoring in future studies. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Nigerian, Quasi-experimental, Randomization, Evaluation, Intervention, Public health, Quantitative methods

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