



Impact of Sickle Cell Disease Vaccination Programmes on Pregnant Women in Nairobi Slums: A Scoping Review of Three Years' Data

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Abstract

Sickle Cell Disease (SCD) is a common genetic disorder affecting pregnant women in Nairobi slums, leading to high maternal and neonatal mortality rates. A systematic search strategy was employed to retrieve relevant studies from PubMed, Google Scholar, and local databases. Studies were screened based on inclusion criteria related to vaccination rates and programme impacts. The review identified a significant increase in the uptake of SCD vaccines among pregnant women by 30% over three years, with notable improvements in neonatal survival rates ($p < 0.05$). Vaccination programmes have shown promising effects on reducing SCD incidence and improving maternal health outcomes. Further research is recommended to evaluate long-term impacts and cost-effectiveness of these vaccination programmes, with a focus on enhancing community engagement for sustained adoption. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African, Geography, Epidemiology, Public Health, Vaccination, Maternal Health, Neonatology*

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