



Precision Medicine in Urban Youth Cancer Treatment: A Pilot Study in Nairobi Slums, Kenya

Kamau Oleche¹, Waweru Wanjiku^{2,3}, Ochieng Okoth^{1,4}, Cherish Nganga^{5,6}

¹ International Centre of Insect Physiology and Ecology (ICIPE), Nairobi

² Maseno University

³ Technical University of Kenya

⁴ Department of Epidemiology, Technical University of Kenya

⁵ Department of Clinical Research, Moi University

⁶ Department of Surgery, International Centre of Insect Physiology and Ecology (ICIPE), Nairobi

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Correspondence: koleche@outlook.com

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Author notes

Kamau Oleche is affiliated with International Centre of Insect Physiology and Ecology (ICIPE), Nairobi and focuses on Medicine research in Africa.

Waweru Wanjiku is affiliated with Maseno University and focuses on Medicine research in Africa.

Ochieng Okoth is affiliated with Department of Epidemiology, Technical University of Kenya and focuses on Medicine research in Africa.

Cherish Nganga is affiliated with Department of Clinical Research, Moi University and focuses on Medicine research in Africa.

Abstract

Urban youth cancer patients in Nairobi slums face significant healthcare disparities. A mixed-methods approach combining qualitative interviews with quantitative data from electronic health records (EHR). The study identified a 20% reduction in treatment side effects compared to historical controls. Precision medicine showed promise for improving clinical outcomes and patient satisfaction among urban youth cancer patients, warranting further research and implementation. Implement precision medicine protocols in urban health systems and conduct longitudinal studies to assess long-term efficacy. precision medicine, urban youth cancer, Nairobi slums Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African Geography, Precision Medicine, Urban Health Disparities, Mixed-Methods Research, Electronic Health Records, Cancer Treatment Models, Youth Oncology

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