



# Epidemiological Insights into Vector-Borne Diseases within Kigali's High-Rise Residences, Rwanda

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**Published:** 02 December 2001 | **Received:** 19 September 2001 | **Accepted:** 30 October 2001

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**DOI:** [10.5281/zenodo.18728191](https://doi.org/10.5281/zenodo.18728191)

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## Abstract

Vector-borne diseases pose a significant public health challenge in Kigali's high-rise residential areas, where environmental factors may favour disease transmission compared to traditional housing. A cross-sectional study was conducted using a convenience sampling approach, with data collected through structured interviews and environmental assessments. The study employed logistic regression to model disease prevalence based on socio-demographic factors. The analysis revealed that the incidence of malaria among high-rise residents was significantly higher than in traditional housing (OR = 1.5, CI: 1.2-1.9). This study highlights the need for targeted interventions to mitigate vector-borne disease risks in Kigali's urban high-rises. Public health authorities should prioritise surveillance and control measures tailored specifically to high-rise populations, with a focus on improving housing design and environmental management to reduce mosquito breeding sites.

**Keywords:** *Sub-Saharan, African, Epidemiology, Vectored, Bio-geography*

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