



Climate Variability Impact on Urban Youth Dermatological Diseases in Lagos, Nigeria: A Longitudinal Study

Chineze Gabriel¹

¹ Department of Surgery, University of Port Harcourt

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Correspondence: cgabriel@aol.com

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Author notes

Chineze Gabriel is affiliated with Department of Surgery, University of Port Harcourt and focuses on Medicine research in Africa.

Abstract

Urban youth in Lagos, Nigeria are exposed to significant climate variability, which may influence their dermatological conditions. A longitudinal study design was employed with stratified sampling to ensure representation from diverse urban neighborhoods in Lagos. Participants provided skin biopsies for analysis, which included assessing disease severity using a validated scoring system. Skin biopsy data showed an increased prevalence of atopic dermatitis (AD) by 20% during the dry season compared to wet seasons, with significant variation observed across different neighborhoods. Climate variability significantly impacts urban youth dermatological diseases in Lagos, underscoring the need for targeted public health interventions focused on seasonal prevention and management strategies. Implementing educational campaigns about seasonal skin care practices could mitigate AD prevalence during dry seasons among urban youth in Lagos. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Urbanization, Climate Change, Cohort Study, Public Health, Dermatology, Longitudinal Analysis*

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