



Environmental Exposure and the Growing Burden of Allergic Skin Reactions in Low-Income Communities

Miriam Ndlovu*

Department of Dermatology and Community Health, Southern Lakes University, Blantyre, Malawi

DESCRIPTION

Allergic Skin Reaction is a common health condition that affects individuals of all ages. In many low-income countries, the condition is often overlooked because healthcare systems frequently focus on diseases with immediate life-threatening consequences. However, skin reactions linked to allergic responses can cause persistent discomfort, sleep disruption, emotional distress and social challenges. In communities where environmental exposure to irritants is frequent and medical care remains limited, allergic skin reactions represent a public health concern that deserves more attention. In the city of Blantyre, Malawi, daily life exposes residents to a range of environmental substances that may trigger skin irritation. Many people work in occupations such as agriculture, small-scale manufacturing or street vending. These activities involve contact with fertilizers, plant materials, cleaning agents, dyes and dust particles. Repeated exposure to these substances can stimulate immune responses in sensitive individuals, leading to redness, itching, swelling and small rashes on the skin. For many residents, these symptoms appear repeatedly, creating long-term discomfort. An allergic skin reaction develops when the immune system interprets a normally harmless substance as a threat. Once the body has been exposed to a triggering material, the immune system may respond quickly during future contact. The reaction often produces visible changes such as redness, bumps or dry patches. While some reactions remain mild and temporary, others persist for longer periods and interfere with daily activities. In low-income environments where working conditions are physically demanding, skin irritation may reduce productivity and cause difficulties in performing routine tasks.

Housing conditions also influence the frequency of allergic skin problems. In densely populated neighborhoods within Blantyre, many families live in small dwellings constructed with limited ventilation. Dust accumulation, mold growth and insect exposure are common in such environments. These factors may contribute to skin irritation in individuals who already possess sensitive skin or a history of allergic conditions. When several

family members experience similar symptoms, it becomes difficult to determine the original cause of the reaction. Another factor associated with allergic skin conditions is the widespread use of low-cost personal care products. In many low-income countries, soaps, detergents and cosmetics sold in informal markets may contain chemical ingredients that irritate the skin. Consumers often select these products because they are affordable, yet repeated use can trigger allergic responses in susceptible individuals. Without clear labeling or regulation, people may remain unaware of which ingredients cause their symptoms. Access to dermatological care remains limited in many regions of Malawi. Specialized skin clinics are mostly located in large hospitals within urban centers, leaving rural populations with minimal access to professional consultation. As a result, individuals experiencing allergic skin reactions frequently rely on home remedies or over-the-counter medications purchased from local shops. While some treatments provide short-term relief, the underlying cause of the reaction may remain unidentified, leading to repeated episodes of irritation.

Research focusing on allergic skin reactions in low-income countries remains limited. Many existing studies originate from high-income regions where environmental conditions and healthcare resources differ significantly. Investigations conducted in communities like Blantyre could contribute valuable knowledge regarding local triggers, occupational risks and effective community-based prevention strategies. Such studies may guide policymakers in designing public health programs that address both medical and environmental aspects of skin health.

CONCLUSION

In conclusion, Allergic skin reactions represent more than temporary discomfort for many individuals living in economically constrained environments. The condition can influence daily work, sleep patterns, emotional well-being and social interaction. Greater awareness among healthcare

Correspondence to: Miriam Ndlovu, Department of Dermatology and Community Health, Southern Lakes University, Blantyre, Malawi, E-mail: miriam.ndlovu.slu@healthmailresearch.org

Received: 01-Sep-2025, Manuscript No. JOD-25-31134; **Editor assigned:** 03-Sep-2025, PreQC No. JOD-25-31134 (PQ); **Reviewed:** 17-Sep-2025, QC No. JOD-25-31134; **Revised:** 24-Sep-2025, Manuscript No. JOD-25-31134 (R); **Published:** 30-Sep-2025, DOI: 10.35248/2684-1436.25.10.288

Citation: Ndlovu M (2025). Environmental Exposure and the Growing Burden of Allergic Skin Reactions in Low-Income Communities. *J Dermatit*. 10:288.

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providers, educators and community members may improve early recognition and encourage safer environmental practices. By paying attention to common yet often overlooked skin

conditions, public health systems in low-income countries can improve quality of life for many individuals who experience recurring allergic irritation.