

# **A Policy Brief on Optimising Aloe Vera–Cotton Blends for Diabetic Socks in Cairo: Enhancing Skin Hydration and Ulcer Prevention in the Egyptian Context**

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Y, o, u, s, s, e, f, A, l, -, M, a, s, r, y, ,, A, m, i, r, a, E, l, -, S, a, y, e, d, ,, K, a,  
r, i, m, H, a, s, s, a, n, ,, N, o, u, r, h, a, n, A, b, d, e, l, -, M, a, l, e, k

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# | Abstract

This study addresses a current research gap in Engineering concerning Optimizing the Blend Ratio of Aloe Vera Microfibers with Egyptian Cotton for Diabetic Sock Production in Cairo: Skin Hydration and Ulcer Prevention Rates in Egypt. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A policy analysis was undertaken using national and regional policy documents relevant to the study scope. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Optimizing the Blend Ratio of Aloe Vera Microfibers with Egyptian Cotton for Diabetic Sock Production in Cairo: Skin Hydration and Ulcer Prevention Rates, Egypt, Africa, Engineering, policy brief This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.

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