

# THE USE OF TOPICAL TREATMENT TO TREAT KELOID SCARS RESULTING FROM BURN GRAFTS FROM BOTH DONOR AND RECIPIENT SITES- AFTER FAILED TRADITIONAL TREATMENT - A CASE STUDY.

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## Running Title

The use of topical treatment to treat keloid scars resulting from burn grafts from both donor and recipient sites- after failed traditional treatment - A case study.

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## BACKGROUND

Keloid formation following burn injury and subsequent skin grafting remains a significant clinical challenge, particularly when involving both donor and recipient sites. These fibroproliferative scars arise from aberrant wound healing and are frequently associated with functional impairment, pruritus, pain, and considerable psychosocial burden. Despite the availability of multiple therapeutic modalities—including surgical excision, intralesional corticosteroids, and topical agents such as silicone-based products—treatment outcomes are often inconsistent, with high rates of recurrence and resistance reported in the literature.

## CASE PRESENTATION

This case describes a patient who developed extensive, symptomatic keloid scars at both the skin graft donor and recipient sites following traditional burn management. The patient had persistent and progressive scar formation despite prior conventional interventions.

## INTERVENTION AND OUTCOMES

A topical therapy was introduced as part of the management strategy. Over the course of follow-up, the patient demonstrated a notable reduction in scar volume, thickness, and associated symptoms, indicating a favorable clinical response to the topical regimen.

## CONCLUSION

This case highlights the potential role of topical therapy as an effective component in the management of post-burn keloids, particularly in contexts where access to advanced or multimodal treatments is limited. It underscores the importance of early intervention and individualized treatment strategies, taking into account patient-specific factors such as skin type, extent of injury, and resource availability. Further research is needed to establish optimized treatment protocols for burn-associated keloid scars.



Figure 1 – Recipient Site – BEFORE



Figure 2 – Recipient Site – AFTER



Figure 3-4 – Left Donor Site BEFORE - Right Donor Site AFTER