WHITE **PAPER**

Stratpharma Switzerland

Strataderm® cost-effectiveness of post-burn scar management

nature scientific reports

McPhail, S. M., Wiseman, J., Simons, M., Kimble, R., & Tyack, Z. (2022). Cost-effectiveness of scar management post-burn: a trial-based economic evaluation of three intervention models. *Scientific Reports,* 12(1). https://doi.org/10.1038/s41598-022-22488-3

Scan to read the original study

Summary

Scar management in children remains a challenge, and the costs associated with these interventions are important considerations for healthcare services.

This study examines the **cost-effectiveness of three scar management interventions: pressure garment monotherapy, topical silicone gel (Strataderm®), and a combination of both interventions,** through a randomized controlled trial. The research involved 153 children who received scar management for 6 months following burn injuries at Queensland Children's Hospital in Brisbane, Australia.

The cost-effectiveness analysis was conducted from the perspective of a health service provider deciding which intervention approach to implement in a scar management clinic.

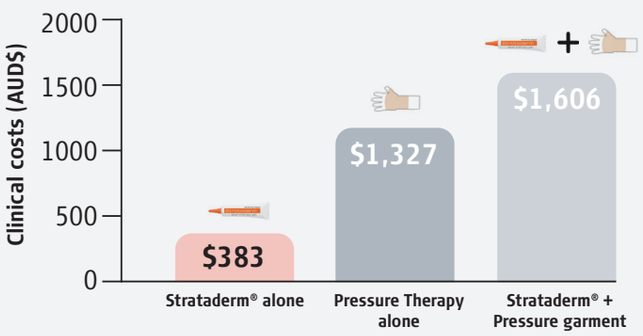


Figure 1: Clinical costs (health service perspective) for each treatment group. Includes occupational therapist labor and allied health assistants.

Results

- Topical silicone gel (Strataderm®) was the most cost-effective option.
- There were no significant differences in Quality Adjusted Life Year estimates among the interventions.
- Topical silicone gel (Strataderm®) demonstrated dominance over pressure garment therapy in 70% of cases (considered more cost-effective and efficacious).
- In 63% of cases, topical silicone gel (Strataderm®) was found to be more advantageous than combined therapy.
- Topical Silicone gel (Strataderm®) may be favoured in the absence of clear clinical effect favouring pressure garment therapy or a combination of these management approaches.

Strataderm®: Reasons for Effectiveness

The study supports the use of topical silicone gel (Strataderm®) as a cost-effective intervention for post-burn scar management in children. Patient outcomes were similar in each group, but the topical silicone-only group (Strataderm®) was found to be more cost-effective than either pressure garment therapy alone or both interventions combined.

"There have been relatively few economic evaluations investigating the cost-effectiveness of pediatric burn care interventions. This study is the first of its kind to report on the cost-effectiveness of these three scar management approaches for children recovering from burns.

Despite pressure management being the first-line intervention for scar management in pediatric burn care for decades, these findings are likely to have significant implications. ***Topical Silicone gel (Strataderm®) may offer a more feasible and cost-effective solution for scar management*** *in children recovering from burns."*

CHECK RELATED STUDIES ON:

Efficacy of **Strataderm® vs. pressure garment and combined intervention for the treatment of post-burn injury scars.**

- **Short-term Study (6 months)**
- **Long-term Study (12 months)**

For more information, please contact us at:
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