Switzerland Stratpharma Heal Better™

Strataderm® effectiveness of post-burn scar management compared to pressure garments

Clinical Rehabilitation

Wiseman, J., et al. (2020). **Effectiveness of topical silicone gel and pressure garment therapy for burn scar prevention and management in children: A randomized controlled trial.** *Clinical Rehabilitation*, 34(1), 120-131. https://doi.org/10.1177/0269215519877516

Scan to read the original study

Summary

This study, conducted in Australia, aimed to assess the **effectiveness of silicone gel (Strataderm®) and pressure garments, alone or in combination, for scar management** in children post-burn.

In a multicenter, randomized controlled trial involving 153 participants aged 0–18 years, the groups were assigned to receive topical silicone gel only (Strataderm®), pressure garment therapy only, or a combination of both. **The primary outcomes focused on scar thickness, itch intensity and treatment adherence at six months post-burn.**

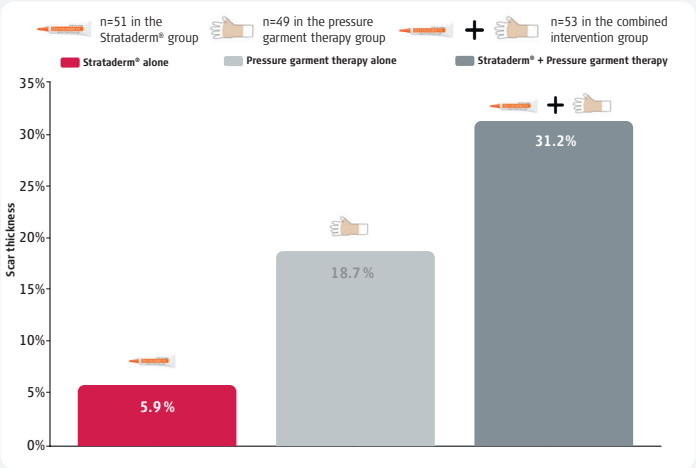


Figure 1: 6-Month Relative Percentage Increase in Scar Thickness Compared to Baseline for each treatment group.

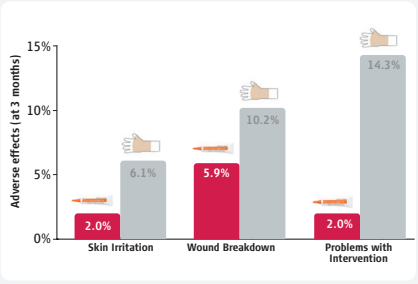


Figure 2: Adverse effects at 3 months for Strataderm® alone and Pressure garment therapy alone.

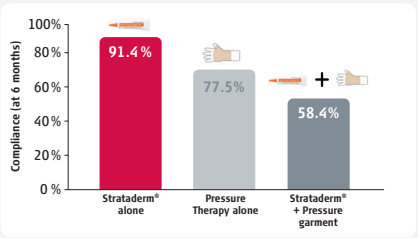


Figure 3: Analysis of adherence for each treatment group at 6 months post-burn injury.

Results

- After 6 months, scars treated with Strataderm® increased by 5.9%, while the increase was higher in the other groups. *(Figure 1)*
- **Less adverse effects** such as skin irritation , wound breakdown or problems with intervention, were observed in the Strataderm® group. *(Figure 2)*
- At 6 months, caregivers and observers using Strataderm® alone, reported **better patient compliance,** along with improvements in overall scar appearance and health-related quality of life compared to pressure garment alone and combined group. *(Figure 3)*
- Strataderm® was reported **easier to use** compared to pressure garment therapy alone or combined therapy, where reduced intervention adherence and satisfaction were reported. *(Figure 3)*
- Strataderm® and pressure garments were confirmed, with statistical significance, to have the same clinical efficacy in the prevention and treatment of post-burn scars after 6 months. Results were validated over a 12-month period.

Wiseman, J., et al. (2020). Clinical rehabilitation, 35(8),pp. 1126–1141

Strataderm®: Reasons for Effectiveness

Strataderm® has less adverse effects, is easier to use and has better patient compliance compared to pressure garments.

Wiseman, J. et al. (2020), states:

*"There was no benefit to using combined silicone and pressure therapy for physical or sensory scar outcomes at 6 months post-burn. Greater frequency of adverse effects was observed in the pressure compared to the silicone group (*Strataderm®*).* ***Combined silicone and pressure interventions may reduce intervention adherence and satisfaction."***

CHECK RELATED STUDIES ON:

- **Strataderm® cost-effectiveness of post-burn scar management**
- **Strataderm® effectiveness of post-burn scar management (12 months)**

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