

SCARBAN Case:

Hypertrophic scar following a burn

1. Case description

Patient age	84 years
Gender	Male
Cause	November 13, 2021: Chemical burn – 2nd/3rd degree to the back of the left hand caused by the explosion of a lavender spray can.
Reason for scar treatment	Aftercare of hypertrophic scars of the left hand following burns.
Start of scar treatment	February 25, 2022
Therapy	- Scarban Elastic. - Compression gloves: comfort glove, circular knit (nighttime) and strong glove, flat knit (daytime) - Use of a C-splint, fabricated by the occupational therapist in January 2022. - Exercise therapy provided by a (hand) physiotherapist.

2. Evolution of the scar



November-19-2021



February-16-2022



2 months after starting Scarban



2 months after starting Scarban



July-06-2022



October-12-2022



December-21-2022



October-5-2023



December-14-2023 (end of treatment)

3. Conclusions by medical team

- Aftercare of the hypertrophic scars using silicone sheets (skin hydration) in combination with compression gloves (in this case) is essential to prevent significant functional impairment of the hand. Functional impairment typically presents as restricted range of motion (ROM), particularly at the metacarpophalangeal (MCP) joints, making it difficult or even impossible to make a fist and perform key functional grips, such as key pinch and tip pinch. These gripping functions are essential for carrying out activities of daily living (ADLs).
- Treatment with Scarban silicone sheets and compression gloves successfully prevented the development of skin contractures around the MCP joints. The patient experiences no functional limitations, pain or loss of grip strength. He is able to make a full fist.
- Treatment was completed in December 2023 (two years after sustaining the burn injury).
- The patient was advised to follow a strict UV protection regimen for at least one year after completion of treatment to minimise the risk of hypo- or hyperpigmentation of the mature scars.

4. Patient experience

- The patient is pleased that he has regained full use of his hand.
- He is satisfied with the overall treatment outcome.

Authors: Mr. C. Colla, Certified Prosthetist-Orthotist (CPO), Maastricht University Medical Centre (UMC), Department of Plastic Surgery, The Netherlands.

Prof. Dr E. van den Kerckhove, Professor of Physiotherapy, specialising in Hand and Burn Rehabilitation, Maastricht University Medical Centre (UMC), Department of Plastic Surgery, The Netherlands.