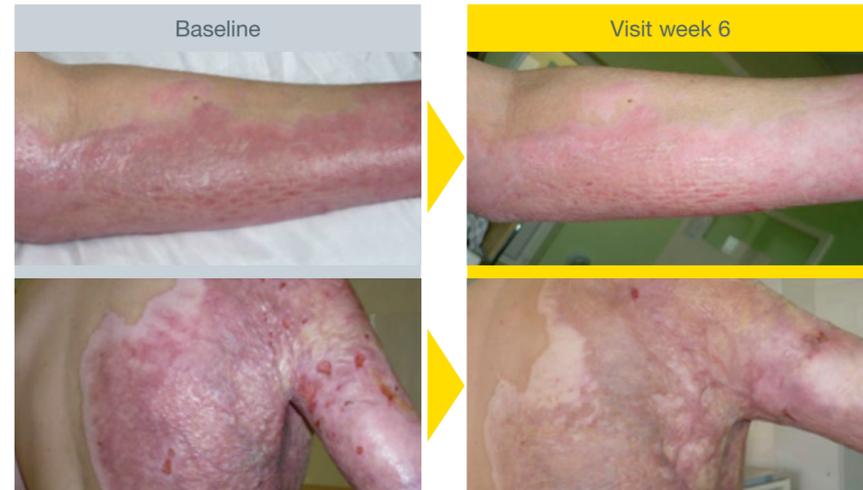


Visible improvement in scar appearance with Contractubex® gel



Exemplary presentation of post-burn scar improvement in the course of topical treatment with Contractubex® gel after 6 weeks

Conclusions

- Treatment with Contractubex® gel following burn injury is well tolerated and **significantly improves scar appearance**. Scar-improving effects of Contractubex® gel are observed by both observers and patients. The same results apply to the treatment of surgical scars with Contractubex® gel.
- Following treatment with Contractubex® gel, observer and patient ratings show that both parties are **greatly satisfied** with the treatment success.
- Improvement of the scar occurred as early as 6 weeks after initiation of treatment. At the end of the 3-month treatment period, Contractubex® gel had significantly improved 4 of 5 sub-items of the observer POSAS, and 5 out of 6 sub-items of the patient POSAS.
- Treatment with the topical scar gel Contractubex® containing Extractum cepae, Heparin, and Allantoin leads to satisfactory results in the therapy of post-burn and post-surgical scars.

Contractubex®



Contractubex® gel makes the difference

Contractubex® gel works deep inside the skin and reduces scars thanks to its pharmacologically active ingredients (Extractum cepae, Heparin, and Allantoin).

The scar gel with the **triple effect**:

- prevents excessive scar tissue formation⁶
- reduces redness, itching, and the feeling of tension^{2,9}
- makes the scar smoother and improves elasticity^{2,6,9}

For best possible results, treatment should be started as soon as the wound is closed or the stitches are removed. **Contractubex® gel – for nearly invisible scars.**

www.contractubex.com



¹ Engrav LH, Garner WL, Tredget EE. Hypertrophic scar, wound contraction, and hyper-hypopigmentation. BCR 28(4): 587-592, 2007.
² Beuth J et al., In Vivo 2006; 20: 277-284.
³ Danneberg DJ, Kosmetische Medizin 2007; 3: 24-29.
⁴ Koc E et al., Dermatol Surg 2008; 34: 1-8.
⁵ Ho WS et al., Dermatol Surg 2006; 32: 891-896.
⁶ Maragakis M et al., Drugs Exp Clin Res 1995; 21: 199-206.
⁷ Ocampo-Candiani J et al., submitted for publication (2012).
⁸ Draijers et al., Plast Reconstr Surgery 2004; 113 (7): 1960-1965.
⁹ Willital GH et al., Kompendium Dermatologie 2007; 3: 16-20.

Contractubex®. Composition: 100 g gel contains: 10.0 g Extr. cepae, 5000 IU heparin sodium, 1.0 g allantoin. Indications: hypertrophic and keloidal scars, movement-restricting and cosmetically disfiguring scars after operations, amputations, burns and accidents; contractures such as Dupuytren's contracture and traumatic tendon contractures; cicatricial strictures. Contraindications: Hypersensitivity to parabens. Side effects: Very rare skin reactions. Mode of action: Contractubex® exerts an antiproliferative, antiinflammatory, softening and smoothing action on proliferating scar tissue. Dosage: Unless otherwise prescribed, Contractubex® should be gently massaged into the skin several times a day until all the gel has been absorbed. In the case of hardened old scars it may be necessary to cover the treated area with a dressing overnight. Interactions: None known. Pack size: 20 g, 50 g. Merz Pharmaceuticals GmbH, D-60318 Frankfurt/Main, Germany



Positive effect of Contractubex® gel on post-burn and post-surgical scars

An independent, prospective, observational, open-label, non-comparative clinical trial

Contractubex®
Treating scars successfully

Prevention of excessive scarring is essential for patients after burns

Excessive scarring is a major negative outcome following burn injury.¹ As post-burn scars often lead to **aesthetic and physical impairments**, scar management is of significant concern to burn trauma patients. Early scar treatment may reduce the extent and severity of non-physiological scar formation and increase patient satisfaction with the aesthetic outcome and quality of life.

The **efficacy and tolerability of Contractubex® gel** in excessive scar prevention and treatment has been demonstrated in numerous clinical studies.²⁻⁶ The present study investigates the efficacy of Contractubex® gel in the treatment of post-burn and post-surgical scars and evaluates the tolerability profile in a representative adult patient population.

Study design

Authors	Mikhail Igorevich Ptuhin et al.
Objective	To evaluate the therapeutic efficacy and drug tolerability of Contractubex® gel in patients with post-burn and post-surgical scars
Patients	22 patients aged ≥20 years with epithelialized post-burn scars (83 % of test persons) or with epithelialized post-surgical scars (17 % of test persons) were included in the final analysis.
Design	Independent, prospective, observational, open-label, non-comparative clinical trial

Topical application two times per day

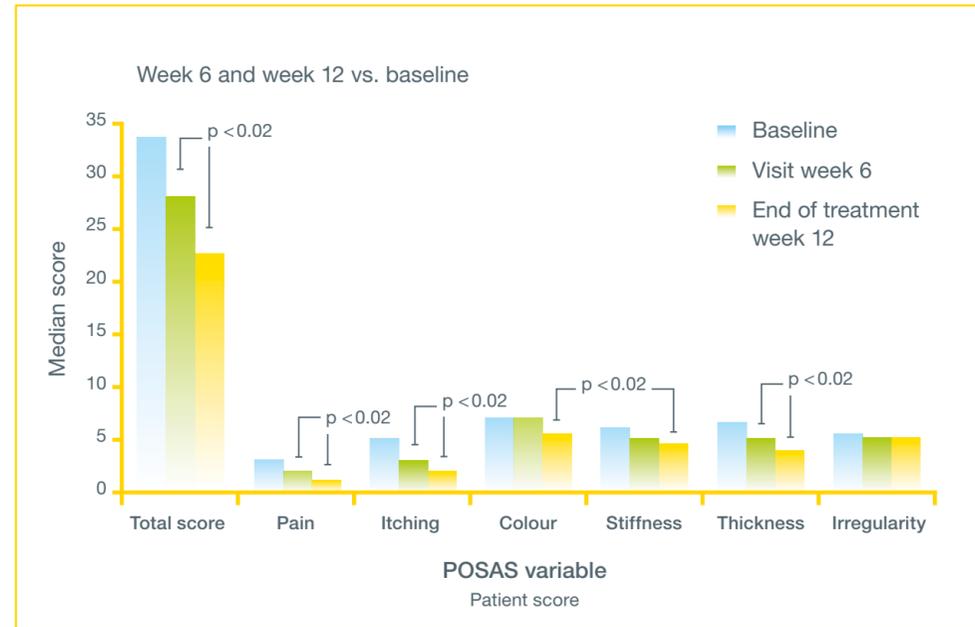
Timeline: Baseline, Visit week 6, End of treatment week 12

Efficacy parameters Change in total and sub-item scores of Patient and Observer Scar Assessment Scale (POSAS), score for each parameter from 1–10

Patient parameters: pain, itching, colour, stiffness, thickness, irregularity

Observer parameters: vascularization, pigmentation, thickness, relief (height), pliability

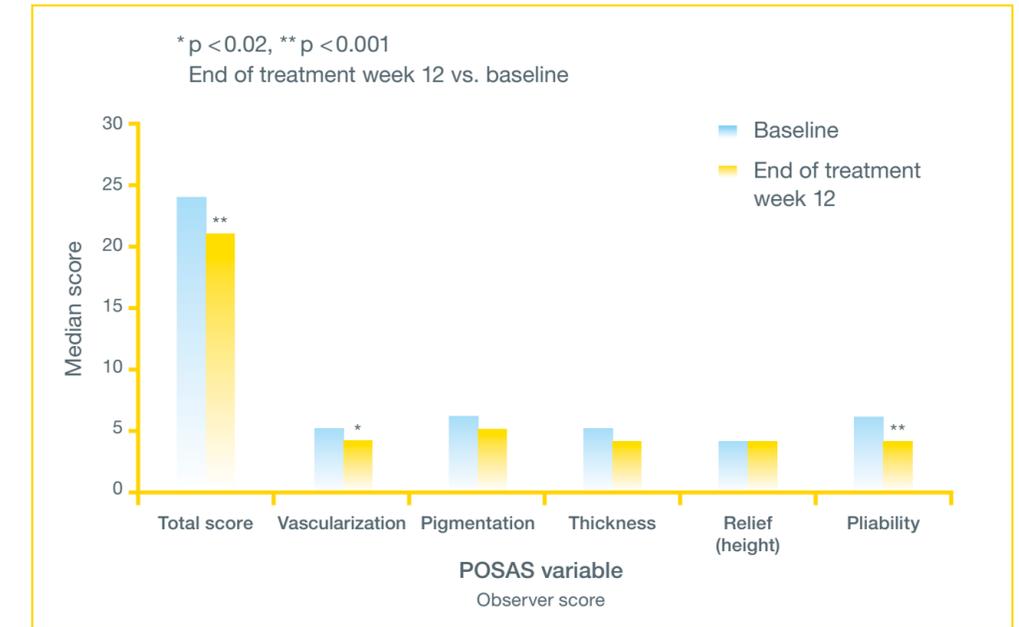
Patient evaluation: Contractubex® gel significantly improves the scar appearance



- Scar therapy with Contractubex® gel leads to a fast overall improvement of patient scores during the course of the treatment. An analysis of patient criteria revealed a significant decrease in pain, itching, and scar thickness as early as 6 weeks after study onset. Improvements were even more pronounced at the end of the three-month treatment period, with a significant decrease in median scores for 5 of 6 sub-items (pain, itching, colour, stiffness, and thickness).
- After 12 weeks, the largest reduction was observed for the sub-item 'itching'. This sub-item decreased from the initial score by 3.0 points at the end of treatment, which is highly significant. The median scores of the aesthetically highly relevant variables 'colour' and 'thickness' were reduced by 1.5 points or 2.5 points, respectively, at week 12.
- Pain, which greatly impacts on the quality of life of burn patients, was rapidly and significantly reduced after both 6 weeks (- 2.0 points) and 12 weeks (- 3.0 points) after study onset.

Patients are greatly satisfied with their treatment. Contractubex® gel results in significant improvement of aesthetic appearance and functionality and thus contributes strongly to the physical and mental well-being of patients. Improvements with Contractubex® gel were quickly achieved and mostly observed as early as 6 weeks after treatment onset.

Observer evaluation confirms positive patient ratings for Contractubex® gel



- Statistically significant improvements in POSAS observer scores after a treatment duration of 12 weeks confirmed the patients-evaluated treatment success for Contractubex® gel.
- The largest significant reduction was obtained for the sub-item pliability, which decreased by 2.0 points compared to the initial score. The sub-items 'thickness', 'vascularization', and 'pigmentation' were markedly reduced on the observer-rated scale (-1.0 points for each variable). Thus, aesthetically relevant sub-items were positively rated by both observers and patients.

Doctors confirm the positive effect of Contractubex® gel on both post-burn and post-surgical scars. Treatment with Contractubex® gel results in significant improvement of clinically relevant parameters and leads to good results in terms of aesthetics and function.