

Case Study: Third-Degree Burned Skin After Explosion

PCCA PracaSil™-Plus



Summary: A 51-year-old male received a third-degree burn on his back, neck and ear after being involved in an explosion. PracaSil™-Plus, a proprietary anhydrous silicone scar base, was applied three times per week to the affected area, which resulted in complete healing within 21 days.

Case Description: A 51-year-old male was exposed to an explosion at work and presented with a third-degree burn on his back, neck and right ear. (Figure 1). The explosion caused him to become deaf in the right ear and left him with only 25% hearing in the left ear, which required use of a hearing aid. PracaSil-Plus was applied three times a week to the affected area. After 21 days, the back, neck and ear were completely covered with a new layer of skin (Figure 2). The pigmentation was rebuilt and the new skin was smooth and soft.



Figure 1. Back, neck and ear (before PracaSil-Plus)



Figure 2. Back, neck and ear (21 days after PracaSil-Plus)

Patient Report: *Because of the explosion, I thought I would have to spend the rest of my life physically scarred due to the burn. I have a long way to go, but I can say my future looks better. PracaSil-Plus has been a miracle cream for me. People who are left with serious burn scars because of accidents like mine can be helped with the use of PracaSil-Plus. It may take longer to heal for some, but after you see the difference it makes, it is worth the continued use.*

Acknowledgements: The patient agreed to anonymously share information and figures included in this case study. Figures 1 and 2 are courtesy of the patient. PCCA Science is grateful for the valuable information shared.

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Introduction: PracaSil-Plus is a proprietary anhydrous silicone base designed to be applied topically in scar therapy treatment (PCCA, 2013a). Silicones have been widely used for their occlusion and hydration properties, which are essential in scar management (Widgerow *et al.*, 2000; Mustoe, 2008). PracaSil-Plus also contains Pracaxi oil, extracted from the oilseed plant *Pentaclethra macroloba*, which has several medicinal applications including skin regeneration and healing (Costa *et al.*, 2013). PracaSil-Plus may be used alone or as a base for the incorporation of active substances in scar therapy treatment (PCCA, 2013a).

Research Studies: The efficacy of PracaSil-Plus in scar therapy treatment was evaluated by visual and instrumental methods in an eight-week, randomized, double-blind, controlled pilot trial conducted on eleven adult Caucasian subject volunteers. PracaSil-Plus showed qualitative and quantitative improvements in the following scar attributes: scar length, scar color/pigment intensity, scar texture/ smoothness/roughness, and overall appearance in both old scars and new scars (PCCA, 2013b).

References:

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- Mustoe, T. (2008) 'Evolution of silicone therapy and mechanism of action in scar management', *Aesthetic Plastic Surgery*, 32 (1), p.82-92.
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- PCCA (2013b) 'Efficacy of PracaSil-Plus in scar therapy treatment: a randomized, double-blind, controlled pilot trial', *Technical Report: 2TR0513*.
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