

Case Study: Open Wound Burn After Radiation



PCCA PracaSil™-Plus

Summary: A 75-year-old caucasian presented with burns on the front and back of her right shoulder after multiple (30) sessions of radiation therapy. An open wound developed on the burned area, causing her severe pain and discomfort. She applied PracaSil™-Plus, a proprietary anhydrous silicone scar base, twice daily on her shoulder and the open wound healed completely within 11 days.

Case Description: A 75-year-old Caucasian woman was diagnosed with breast cancer. After chemotherapy treatment, she underwent radiation therapy. After 30 sessions of radiation she started developing burns on the front and back of her shoulders, under her arms and on her face. The burns on her shoulders turned into open wounds and continued to worsen (Figure 1). The doctor prescribed two different commercial products that did not help with healing and also caused additional painful burning in the area. Those products also stained her clothing. PracaSil-Plus was recommended by a pharmacist, and the patient started applying a thin layer on the affected areas twice a day. Her face healed within a few days and within 11 days, the shoulder wounds had completely healed with only a slight redness of the skin remaining (Figure 2).



Figure 1.
Right side of her shoulder
(Before PracaSil™-Plus)



Figure 2.
Right side of her shoulder
(11 days After PracaSil™-Plus)

Daughter's Report: *My mom said that any cancer center should recommend the use of Pracasil-Plus to their patients. The commercial products that the doctor prescribed to her not only didn't treat the problem, but also caused additional pain and burning. Pracasil-Plus was extremely helpful and didn't stain her clothing as the other products did. She is very happy with her results.*

Acknowledgements: Patient agreed to anonymously share the 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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