1. **PracaSil™-Plus** (anhydrous silicone base w/Pracaxi oil)

* Uses: new scars, old scars, surgical scars, stretch marks (from pregnancy or growth), keloids, acne scars and any skin conditions that would benefit from barrier protection.  
> Pracaxi oil has multiple beneficial properties: anti-inflammatory, antioxidant, antibacterial and antifungal
> The mechanism of action of silicone therapy has not been completely determined but is likely to involve occlusion and hydration of the stratum corneum with subsequent cytokine-mediated signaling from keratinocytes to dermal fibroblasts.
* Warnings/Precautions: Not for oral use and causes eye irritation
* Usual Dosage: Apply to scar(s) twice daily (2 to 6 grams)

**Comments:** Honey-like consistency. It doesn't wash off easy, therefore increasing barrier protection. Can be used in animals. *Can be used alone or as the base vehicle for single or multiple active ingredients:*

- **Aloe Vera (0.5%):** soothes and heals, burns
- **Betamethasone (0.1% Valerate, 0.05% Dipropionate):** Controls inflammation and depresses migration of fibroblasts
- **Caffeine (0.1 – 1%):** Induces differentiation and proliferation in epidermal keratinocytes
- **Ketoprofen (10 – 20%):** Reduces Inflammation
- **Lidocaine (5 – 10%):** Anesthetic
- **Mupirocin (2%):** Topical antibiotic
- **Pentoxifylline (0.1 – 0.5%):** Decreases collagen production, increases activity of collagenase in dermis, inhibits fibroblast hyperactivity, and improves peripheral tissue oxygenation presumably through enhanced blood flow
- **Retinoic Acid (0.05 – 1%):** Not for use during pregnancy, may require physician oversight and helps prevent the breakdown of collagen
- **Salicylic Acid (2 – 5%):** Decreases inflammation and increases skin turnover
- **Silver Sulfaadiazine (1%):** Bactericidal, used primarily in second and third degree burns
- **Tamoxifen (1 – 2%):** Decreases estrogen dependent collagen production
- **Tranilast (0.5 – 2%):** Inhibits collagen synthesis of fibroblasts from keloid and hypertrophic scar tissue through suppressing the release of TGF-beta 1 from the fibroblasts themselves, and is an anti-allergic agent that blocks the release of chemical mediators, such as histamine and leukotrienes, from mast cells
- **Verapamil (5 – 10%):** Decreases calcium channel dependent production of collagen and fibronectin and their release from fibroblasts, increases the activity of collagenase, and beneficial for fibrotic tissue disorders such as plantar fibromatosis
2. **Scar Care Cream Enhanced** (anhydrous silicone base w/Carapa guaianensis seed oil)

*Uses: old and new scars - acne, burns, hypertrophic scars, keloid scars, scar tissue, stretch marks, and surgical scars

> Carapa guaianensis oil (aka andiroba) exhibits anti-inflammatory and anti-allergic properties. These properties are accomplished through inhibiting edema formation and impairing signaling pathways triggered by histamine, bradykinin and platelet-activating factor.\(^5\) The oil is a Natural Moisturizing Factor (NMF) known to promote healing and enhance barrier protection. This characteristic is contributed to it containing essential fatty acids (oleic, palmitic, stearic, and linoleic acids).\(^6\)

> The mechanism of action of silicone therapy has not been completely determined but is likely to involve occlusion and hydration of the stratum corneum with subsequent cytokine-mediated signaling from keratinocytes to dermal fibroblasts.\(^2\)

* Warnings/Precautions: Not for oral use and causes eye irritation

* Usual Dosage: Apply to scar(s) twice daily (2 to 6 grams)

Comments: Reduces redness and lightens most scars. *Can be used alone or as the base vehicle for single or multiple active ingredients* (same ingredients available as used in PracaSil™-Plus).

3. **Wound Care Cream** (polyethylene glycol gel w/meadowsweet extract)

*Use: wound management

> Polyethylene glycol (PEG) gel promotes faster healing by creating the optimal healing environment for acute and chronic wounds by encouraging clean, moist conditions.\(^7\)\(^-\)\(^9\)

> Meadowsweet extract demonstrates antibacterial activity\(^10\)\(^-\)\(^12\), anti-inflammatory and healing properties\(^13\)\(^-\)\(^14\), and antioxidant effects.\(^12\) Effects are contributed to its high content of phenolic compounds, especially flavonoids, and salicylates.

* Warnings/Precautions: Not for oral use. Cream should not be used in conditions where absorption of large amounts of PEG is possible (e.g. extensive burns, large surface area wounds) especially if there is evidence of moderate to severe renal impairment. Use cautiously in patients with an aspirin allergy due to salicylate content. Minimal chance of additive effect interaction with other salicylate-containing drugs (e.g. aspirin, choline mg trisalicylate, salsalate).\(^15\)

* Usual Dosage: Apply to wound two to three times daily

Comments: Occlusive, adherent, dries clear, water-washable, non-greasy, and odorless. Okay to use on sensitive skin. *Can be used alone or as the base vehicle for single or multiple active ingredients:*

- **Aloe Vera** (0.5%): soothes and heals, burns
- **Mupirocin** (5%): topical antibiotic
- **Sesame Oil**: nasal mucosa dryness and epistaxis\(^16\)\(^,\)\(^17\)
- **Silver Sulfadiazine** (1%): Bactericidal, used primarily in second and third degree burns
4. Sucralfate 4-7% in Versabase Cream

*Uses: Epithelial wound healing (ulcers, inflammatory dermatitis, burn wounds, anal fistulotomy wounds)\textsuperscript{18,19,20,21}
\begin{itemize}
  \item Sucralfate enlarges granulation tissue surface and promotes angiogenesis or neovascularization.\textsuperscript{18,21} It also possesses antibacterial activity.\textsuperscript{20}
  \item Versabase simulates the natural moisturizing barrier of the skin. It contains natural emulsifiers, has no parabens, PPG or petrolatum, oil-free, and hypoallergenic.
\end{itemize}
*Warnings/Precautions: Topical sucralfate has been shown to not increase serum Al levels and is well tolerated.\textsuperscript{22,23}
*Usual dosage: Apply to affected area(s) two to four times daily

Comments: Strength and frequency depend on diagnosis and severity.

5. Lakeside Specialty Cream

* Uses: Wound care/healing, mild to moderate pressure ulcers, barrier protection, adult diaper rash
\begin{itemize}
  \item Phenol, starch, boric acid, zinc oxide, petrolatum, benzalkonium chloride, silicone
  \item Antiseptic
  \item Anti-bacterial and anti-fungal
  \item Astringent
  \item Helps keep wound area moist and clean (barrier)
\end{itemize}
* Warnings/Precautions: Application inside the nose
* Usual Dosage: Apply to affected area 2 to 3 times per day

Comments: May cause burning, stinging, itching, and tingling when applied to inflamed areas.
References:


References: