

Patient showed a persistent erythema for three weeks longer than the other 22 patients treated with a new collagen lotion in conjunction with a glycerin/polymer-based face mask. She stated that pain and burning sensations continued for more than (5) five days.

**Conclusion:** Patients treated with the mask showed no symptoms of pain and their skin healed very rapidly.



Photo 2



Photo 3



Photo 4

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### Products used:

Stimulen™ Collagen Lotion  
Elasto-Gel™ Glycerin/polymer Facial Mask

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# SHORTEN EPITHELIAL REGENERATION PERIOD WITH GLYCERIN MASK IN DEEP AND MEDIUM PEELINGS AND ABLATIVE LASER ON PATIENT TREATMENT

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## Abstract

**Introduction:** The total epithelial regeneration after peeling or ablative laser procedures is generally observed to be between 21-30 days. With the use of Stimulen™ collagen lotion and Elasto-Gel™ glycerin/polymer facial masks, an accelerated regeneration is observed, with a lower risk of infection. The clinical experience suggests that the immediate application of a cold dressing to the treated area, when doing a peeling procedure or ablative laser, limits the damage and accelerates recovery time.

**Method:** The objective of this prospective, randomized, longitudinal clinical study (0,3,7, and 30 days) in 20 patients, both male and female, 18 years or older, who were patients at the Tennyson Dermatological Center, was to:

- Prove efficacy of the Stimulen™ collagen lotion and Elasto-Gel™ glycerin/polymer facial mask in deep to medium peeling and ablative laser post treatments.
- Evaluate time and quality of the scarring process.
- To observe side effects of the Stimulen™ collagen lotion and Elasto-Gel™ glycerin/polymer facial mask.

The Stimulen™ collagen lotion and Elasto-Gel™ glycerin/polymer facial mask were applied to 10(ten) deep and medium peeling and ablative laser post treatment patients for a period of 10(ten) days, while the remaining control patients were treated with conventional care and petroleum jelly.

**Variables:** In order to evaluate efficacy:

- Dependent variable: speed of the scarring process.
- Independent variable: application of Stimulen™ collagen lotion and Elasto-Gel™ glycerin/polymer facial mask.

**Discussion:** The scarring process depends on intrinsic and extrinsic factors. It has been proven that when covering a cutaneous wound, a moist environment is created, providing moisture and reducing the risk of hypertrophic and/or keloid scars. This also reduces exudate and the risk of infection. This study shows that the application of the Stimulen™ collagen lotion and Elasto-Gel™ glycerin/polymer facial mask dramatically shortens the healing process (from 21-30 days to 10-15 days) and improves the scar quality. The treatment reduces pain, exudate and the risk of infection. The main advantage of the lotion and mask over petroleum jelly rests in the fact that collagen and glycerin have the properties of tissue regeneration. Additionally glycerin retains fluid at 4 times its weight.

### Results:

| Patient Efficacy            |                             |
|-----------------------------|-----------------------------|
| Healing period with mask    | Healing period without mask |
| 10-15 days                  | 21-30 days                  |
| Quality of scarring process |                             |
| Good                        | Moderate to good            |

| Patient side effects |              |
|----------------------|--------------|
| With mask            | Without mask |
| Infection            |              |
| 0/10                 | 1/10         |
| Exudate              |              |
| 5/10                 | 10/10        |
| Pain                 |              |
| 4/10                 | 8/10         |

**Patients treated with the mask showed no symptoms of pain and their skin healed very rapidly.**

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## Case #1:

**Female patient, 32 years of age with diagnosis of melasma, acne and post acne scars. A deep peeling using trichloroacetic acid (TCA) was applied over her entire face.**

Photo 1 – Before the procedure, shortly before the acid treatment was applied.



Photo 1

Two glycerin/polymer-based masks were used, one immediately after the procedure. The mask was removed after three hours and a second applied for another three hours. Pain was reduced and the end result was no secretion and the laminar scales were dry.



Photo 2

The patient improved rapidly, without complications and almost no erythema. Complete epithelialization occurred within 10(ten) days. Patient was re-examined after one month. No complications were observed and patient was very satisfied with the procedure and the results.



Photo 3



Photo 5



Photo 4



Photo 6

## Case #2:

**Male patient, 28 years of age. Diagnosed with scarring (ice-pick type). Treated with laser Nd: YAG ERBIUM with 33 MgHz, 5 J/ CM2 – 8 passes.**



Photo 1

Photo 1 was taken before procedure. Treatment with laser performed, glycerin/polymer-based mask was used immediately after procedure was done. Due to heavy exudate, it was changed within three hours, then a second mask was used for another three hours with noticeable diminution of exudate and lessening of pain. A third mask was given to patient to use at home.

Minimal erythema and no secretion, no sign of infection.

One week later, epithelialization was complete. Patient has Herpes Simplex on right cheek. Second part of treatment was initiated. Stimulen™ collagen lotion and Elasto-Gel™ glycerin/polymer facial mask was used after treatment. Within three days, marked improvement was documented. Herpes was in remission and had almost disappeared within a month.



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

## Case #3:

**(Control)**

**petroleum jelly/no mask used after procedure**

**Female 30 years old, with diagnosis of melasma and post acne scarring. Procedure was performed with trichloroacetic acid (TCA) peeling. No mask was used after procedure.**