

► Case Report

Treatment of a Second Degree Burn with Geistlich Derma-Gide®

Patient Background

- > 20 year old male
- > No predisposing medical history
- > No prescription medication
- > No insurance

Case History

On June 10th, 2020 the patient had an accident and suffered gasoline burns on both legs and stage 1 burns of the left ankle and shin.

On June 15th the patient visited a plastic surgeon who diagnosed

- > 4% total burn area of the body
- > Severe burns on right foot and ankle

Extensive slough and debris over the right foot wound was found. The patient refused skin grafting. Therefore the wound was debrided and treated with a topical antibacterial (Silvadene) and Domeboro soaks.

Case Summary by John DeSpain, MD

On June 19th a physical exam revealed partial and full thickness burns of the patient's right foot and ankle from his toes to the mid calf with the deepest areas on the anterior and posterolateral ankle. Skin grafting was advised and refused, so Geistlich Derma-Gide® was applied onto the deepest part of the wound in conjunction with Vaseline or mupirocin ointment. The patient noted remarkably reduced pain on June 22nd during the first dressing change. Two additional pieces of Geistlich Derma-Gide® were applied adjacent to the initial application site.

These dressings were removed and changed in the office on July 1st, at which time progressive reepithelialization of the wounds was noted.

The patient continued care at home with instructions to gently clean his leg each 2-3 days, and redress his leg with mupirocin or Vaseline ointment and gauze or adhesive non adherent dressing.



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Dr. DeSpain practices medical, surgical, and cosmetic dermatology and is a member of the American Academy of Dermatology, serves on the Board of the Missouri Dermatologic Society and is a member of the Missouri State Medical Association.

“Geistlich Derma-Gide® did not only help reduce the patient's pain, it also seemed to promote “satellite” healing adjacent to the grafted sites.”

Clinical Case Documentation

- > Patient shown to have accelerated healing post Geistlich Derma-Gide® application, with re-epithelialization extending beyond the location of the grafts placed.
- > Patient healed with hyperemic scars 42 days post treatment with Geistlich Derma-Gide®.
- > The patient had good healing and preserved function.



Day 0: 06/10/20 Initial Presentation
Initial situation gasoline burn on both legs; 2nd degree burns of the right leg



Day 1: 06/11/20 Post Burn Presentation



Day 5: 06/15/20 Prior to Derma-Gide Application
Plastic surgeon visit 2nd degree burns on right foot and ankle - Extensive slough and debris over the right foot wound



Day 5: 06/19/20 Derma-Gide Application to deepest aspect of wound
1st application of Geistlich Derma-Gide® to the deepest aspect of the wound



Day 15: 06/25/20 2nd Derma-Gide Application adjacent to the grafted site
Approximately 60% re-epithelialization noted



Day 19: 06/29/20 Follow-up Visit



Day 25: 07/05/20 Follow-up Visit



Day 30: 07/10/20 Follow-up Visit



Day 33: 07/13/20 Follow-up Visit



Day 40: 07/20/20 Follow-up Visit



Day 47: 08/03/20 Follow-up Visit



Day 227: 01/23/21 Long-term Follow-up Visit

Note: July-August, The patient continued care at home with instructions to gently clean his leg each 2-3 days, and redress his leg with mupirocin or Vaseline ointment and non adherent dressings.



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