

## ► Case Report

# Management of a Chronic Venous Leg Ulcer with Geistlich Derma-Gide®

### Patient Background

- > 73-year-old female
- > Presented with a hard to heal venous leg ulcer 13 months in duration
- > Smoker
- > Edema

### Case History

The patient presented with a longstanding venous leg ulcer (VLU) with a baseline wound size of 8.13 cm<sup>2</sup>. The patient had the wound for more than one year.

### Case Summary by Thomas E. Serena, MD, FACS

Affecting more than two million Americans, Venous leg ulcers (VLUs) are the most common lower extremity ulceration. 70–80% of patients with hard to heal wounds suffer from VLUs. In addition to patient suffering, VLUs cost payers \$14.9 billion in the United States. VLUs are caused by a variety of factors including venous valvular incompetence and calf muscle pump dysfunction<sup>1</sup>. The resulting venous hypertension causes chronic tissue ischemia and skin breakdown. Despite standard of care, more than 50% of VLUs fail to heal at 3 months, and 20% are open at 2 years.

In this case, the patient received a total of eight applications of a Purified Reconstituted Bilayer Matrix (PRBM) (Geistlich Derma-Gide®, Geistlich Pharma) over the course of two months. PRBM was used according to the Instructions for Use. A continuous decrease of the wound size was noted during the course of treatment. Edema was controlled with multilayer compression and daily lymphatic pumping. Following wound closure, a zinc paste was used for an additional two weeks and a confirmatory visit was conducted to verify the wound remained closed.



### Thomas E. Serena, MD, FACS

Cambridge, Massachusetts

Dr. Thomas E. Serena is a vascular surgeon and Founder and Medical Director of The SerenaGroup®, a family of wound, hyperbaric and research companies. Dr. Serena has been the lead or Principal investigator in over 100 clinical trials, including gene therapy for critical limb ischemia, antimicrobial dressings, growth factors, topical and parenteral antibiotics and CTP therapy. He is recognized internationally as an expert in the field of wound healing as he has more than 200 published papers and has given more than 1,000 invited lectures throughout the world.

“The excellent absorptive capacity of Geistlich Derma-Gide® helped to manage the exudate of this patient and facilitated healing of a long standing VLU”

1 Rice, J.B.; Desai, U.; Cummings, A.K.; Birnbaum, H.G.; Skornicki, M.; Parsons, N. Burden of venous leg ulcers in the United States. *J. Med. Econ.* 2014, 17, 347–356.

## Clinical Case Documentation

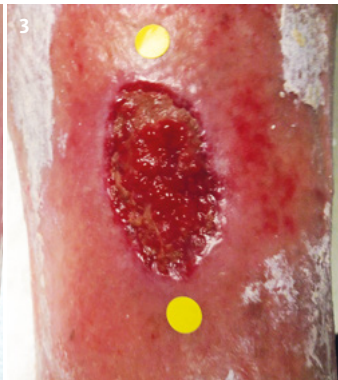
- > Patient shown to fully heal following eight Geistlich Derma-Gide® applications.
- > High patient satisfaction – VLU had persisted 13 months prior to Geistlich Derma-Gide® treatment.
- > The patient achieved wound closure two months after initiating Geistlich Derma-Gide® treatment.
- > No product related adverse events were observed.



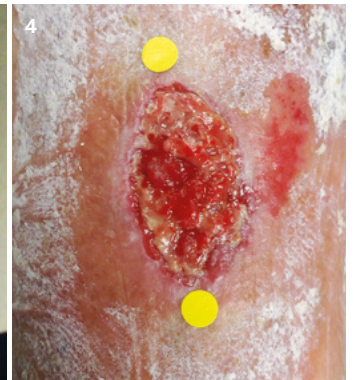
**Day 0: Initial Application**  
Assessment of the wound (8.13 cm<sup>2</sup>) prior to the application of Geistlich Derma-Gide®.



**Day 7: Second Application**  
Initial formation of granulation tissue. Wound size: 6.35 cm<sup>2</sup>.



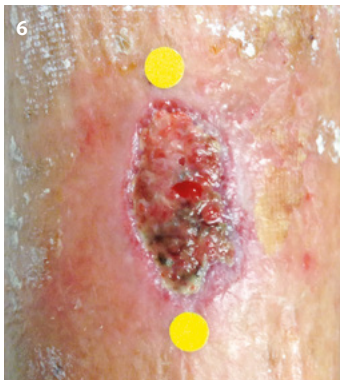
**Day 22: Third Application**  
Continued decrease of the wound size was observed. Wound size: 5.89 cm<sup>2</sup>.



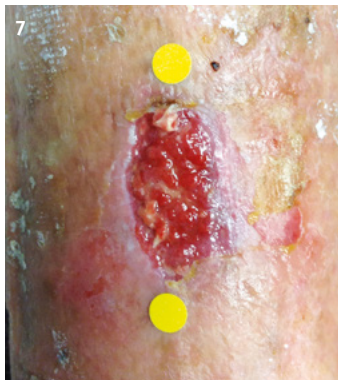
**Day 28: Fourth Application**  
Improved overall tissue quality and significant decrease of the wound size to 5.07 cm<sup>2</sup>.



**Day 35: Follow-up Visit**  
Continued wound closure and overall improvement of tissue quality. Wound size: 4.66 cm<sup>2</sup>.



**Day 42: Follow-up Visit**  
Continued filling of the wound. Wound size: 4.61 cm<sup>2</sup>.



**Day 49: Follow-up Visit**  
Wound size decreased to 2.29 cm<sup>2</sup> and was almost completely filled.



**Day 76: Confirmed Healing**  
Two weeks after the last application of Geistlich Derma-Gide® complete wound closure was achieved.



**Manufacturer**  
Geistlich Pharma AG  
Bahnhofstrasse 40  
6110 Wolhusen  
Switzerland

**Distributed by**  
Geistlich Pharma North America Inc.  
Princeton, NJ 08540 USA  
Phone toll-free 877 485 2968  
www.derma-gide.com

