CASE STUDY

Dramatic Healing of Three Stalled Venous Hypertension Ulcers in a Bariatric Patient Using PolyMem Silver® Dressings Under an Unna’s Boot

TREATMENT INITIATION

CLOSED IN 10 WEEKS

TREATMENT INITIATION

CLOSED IN 6 WEEKS

TREATMENT INITIATION

CLOSED IN 6 WEEKS
CASE STUDY

Dramatic Healing of Three Stalled Venous Hypertension Ulcers in a Bariatric Patient Using PolyMem Silver Dressings Under an Unna’s Boot

Mariama Hubbard MSN, APNC, Comprehensive Wound Care Center, Jersey Shore University Medical Center, 1945 State Route 33, Neptune, NJ 07754-0397

PROBLEM
A 58 year old male bariatric (BMI 55) department store worker frequently missed work due to three left lower leg venous hypertension ulcers which were treated with oral antibiotics and twice-daily silver sulfadiazine or an Unna’s Boot without improvement. After 7 months of unsuccessful treatment, the primary care physician referred the patient to a wound care nurse. The patient had lower leg hyperpigmentation and dilated veins and the periwound skin was edematous and slightly macerated. His largest ulcer, on his left calf, was 4 cm x 3 cm x 0.5 cm deep and was draining significant quantities of light yellow fluid. He took naproxen sodium for pain, which was 5 during dressing changes and 3 at other times on the 0 – 10 scale.

RATIONALE
PolyMem dressings are proven to provide significant wound pain relief by inhibiting nociceptor activity at the wound site. Several integral components of PolyMem dressings work together to create an ideal moist environment which concentrates the body’s natural healing nutrients by absorbing the watery portion of the wound fluid. In addition to the foam base material, these unique dressings contain a super-absorbent starch, so they are recommended for heavily exuding wounds. PolyMem Silver has additional anti-infective properties. Therefore, PolyMem Silver dressings were initiated.

METHODOLOGY
The patient was placed on an oral antibiotic for two weeks based upon culture results. After thorough cleansing with saline, a PolyMem Silver dressing was applied with an Unna’s Boot over it. Initially a skin barrier spray was used on the periwound skin due to maceration, but this was no longer needed after PolyMem dressing use was established. The wound area was cleansed with normal saline at each dressing change due to the large quantity of exudate. The PolyMem Silver dressing and Unna’s boot were changed twice a week.

RESULTS
After the second dressing change, the patient had pain only during the changing of the dressing on the largest wound. The two smaller ulcers completely closed after six weeks of PolyMem Silver dressing treatment, and the largest ulcer was only 2 cm x 2 cm x 0.1 cm. At 6½ weeks, the patient failed to wear his Unna’s Boot for a week and developed new ulcers. But, the two healed ulcers did not break open and the remaining study ulcer did not enlarge; it was fully closed a month later.

CONCLUSION
After only one week, PolyMem Silver dressing use resulted in new granulation tissue forming in all of these previously stalled venous hypertension wounds. The patient’s pain also diminished dramatically. At six weeks, two of the wounds were closed and the final wound was only superficial. It was completely closed 2½ months after beginning treatment with PolyMem Silver dressings.

This case study was unsponsored. Ferris Mfg. Corp. contributed to the poster presentation.
**OBJECTIVES**

1. Evaluate the brisk healing rate achieved using PolyMem Silver dressings on these venous ulcers under compression.
2. Consider the advantages of using PolyMem dressings in terms of the remarkable pain relief patients report.
3. Identify PolyMem as a unique dressing type that promotes appropriate wound moisture conditions, even under compression, by locking extra moisture into a gel form to help prevent maceration while leveraging glycerol to add moisture to dry areas of the wound bed.
4. Note that PolyMem Silver dressings promote cell proliferation while helping inhibit infection.

---

**Left Posterior Leg Wound**

**SEPTEMBER 13**
4 cm x 3 cm x 0.5 cm: No healing for 7 months. Began treatment with PolyMem Silver dressings.

**OCTOBER 4**
3 cm x 3 cm x 0.2 cm: The wound is clearly improving. Mild pain only during dressing changes.

**NOVEMBER 1**
1.5 cm x 1.2 cm x 0.1 cm: Drainage is now serous and moderate. Filling in well.

**NOVEMBER 29**
Closed after only 2½ months of using PolyMem Silver dressings. Intact at January follow up.

---

**Left Lateral Leg Wounds**

**SEPTEMBER 13**
3 cm x 2.5 cm x 0.1 cm: Erythema surrounding 7 month-old wound. Began PolyMem Silver treatment.

**SEPTEMBER 20**
3 cm x 2.5 cm x 0.1 cm: Wound size is unchanged, but periwound area is no longer erythematous and edematous.

**OCTOBER 18**
3 cm x 2 cm x 0.1 cm: No drainage. Wound is superficial and fully granulating.

**OCTOBER 25**
Flaked over. Flakes removed November 1 to reveal complete epithelization. Intact skin at January follow up.

---

**Left Anterior Leg Wound**

**SEPTEMBER 13**
2.5 cm x 2.5 cm x 0.1 cm: Began using PolyMem Silver dressings under the familiar Unna's Boot.

**OCTOBER 11**
1.5 cm x 1.3 cm x 0.1 cm: Dramatic size decrease in just 4 weeks. Cleansed the periwound area only.

**OCTOBER 25**
Fully closed at 6 weeks using PolyMem Silver dressings under Unna's Boot. Remained intact when patient failed to wear compression in November.
**CASE STUDY**

*This version has been modified from the original; it reflects PolyMem branding.*

**Ferris Mfg. Corp.**

16W300 83rd Street | Burr Ridge, Illinois 60527 USA  
Toll Free USA: 1.800.POLYMEM (765.9636) | International: +1 630.887.9797  
Web site: www.PolyMem.com

---

**BIBLIOGRAPHY:**


---

**ORIGINAL POSTER PRESENTED AT:**

The WOCN Society’s 39th Annual Conference. Poster #1261. June 10 - 13, 2007. Salt Lake City, UT USA

---

* © 2011 Ferris Mfg. Corp.*

**MKL-296, REV-2, 0311**