CASE STUDY

Flap Surgery Canceled Through the Use of PolyMem Dressings

**June 13**
After 13 days of PolyMem use, wound is clean. 3.0 cm of undermining is filling in.

**July 29**
After only 9 weeks of PolyMem use, undermining is resolved. Dismissed to home care.
Flap Surgery Canceled Through the Use of PolyMem Dressings
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INTRODUCTION
A 30-year-old independent man with a 10 – 12 year history of spinal cord injury (tetraplegic: paralyzed legs and body with arm weakness) suffered for 1½ years from a grade IV pressure ulcer on his right hip. This pressure ulcer was 6.5 cm x 4.0 cm with 3.0 cm of undermining on one side. Flap surgery was postponed because the ulcer developed necrosis and an infection.

When he arrived at our rehabilitation center, the man also had nine other pressure ulcers, including a fistula and eight grade III pressure ulcers, with durations ranging from 6 months to 1½ years. The eight grade III pressure ulcers were caused by a huge problem with pain-induced spasticity – a common problem among paralyzed individuals, even with medications. The man had difficulty with transferring to and from his wheelchair and changing positions because of this problem, which particularly caused him to have stiff legs.

Our mission was to get the grade IV right hip wound infection-free and started healing so the flap surgery would be possible.

BACKGROUND
This man was first seen at the Rehab Station Stockholm 1½ years prior to this admission when he first developed the sacral and bilateral trochanter and ischial pressure ulcers after a bout of diarrhea. During that time, our facility trialed PolyMem.

These photos show the patient’s rapid improvement in only four weeks. Unfortunately, his wounds were not fully closed when the trial ended. Many other modern dressing combinations were attempted after the PolyMem ceased to be available, but all resulted in the wounds stalling or increasing in size.

When he returned to Rehab Station Stockholm because of his infection (see Introduction), he found that PolyMem is now the main dressing we stock. We were able to arrange for him to continue using PolyMem as an outpatient, as well.

METHODS
PolyMem dressings inhibit the nociceptor activity at the wound site, which often provides significant wound pain relief – or in this case spasticity reduction. The dressings also include components which draw and concentrate healing substances from the body into the wound bed to promote rapid healing, while facilitating autolytic debridement directly by loosening bonds between the slough and the wound. The liquefied slough is absorbed by the dressings, often eliminating the need for wound cleansing at dressing changes. These unique dressings add moisture to dry wounds while absorbing excess fluid, so they are recommended for dry wounds with exposed tendons and bones as well as for heavily exuding wounds.

PolyMem dressings, with PolyMem Wic® cavity filler in the deeper wound cavities, were used on all of the pressure ulcers. The PolyMem and PolyMem Wic were changed 3 times a week, and the patient also had a pressure relief program. It was not necessary to cleanse the wounds routinely at dressing changes.

RESULTS
All eight of the grade III pressure ulcers closed after only four weeks of treatment with PolyMem dressings. The initial size of the grade IV pressure ulcer on the right hip was 6.5 cm x 4.0 cm with 3.0 cm of undermining on one side. After 2 weeks of using PolyMem dressings, the necrosis and infection had resolved. And, after 5 weeks the undermining was completely filled in and the size of the ulcer was decreased to 6.0 cm x 2.6 cm, so the flap surgery was no longer considered necessary!

After 9 weeks of using PolyMem dressings, the patient was dismissed to continue this wound treatment in his home. The grade IV ulcer was at this point superficial and only 4.6 cm x 2.2 cm. Six months later, despite less supervision for offloading in the out-patient setting and several re-injuries, the grade IV right hip pressure ulcer was completely closed.
OBJECTIVES

1. Review evidence for the use of PolyMem dressings in the treatment of the pain (or spasticity) associated with pressure ulcers.

2. Consider the many advantages associated with PolyMem dressings’ ability to passively cleanse the wound bed.

3. Review evidence for the use of PolyMem dressings in the treatment of wounds with both dry areas, such as exposed tendons and bones, and heavily exudating areas, such as the base of a grade IV pressure ulcer.

CONCLUSION

After suffering from multiple pressure ulcers for 1½ years, changing to PolyMem dressings resulted in the complete closure of all eight of this patient’s grade III pressure ulcers in only 4 weeks. His grade IV right hip pressure ulcer closed in 7 months, saving the patient from plastic surgery.

Being completely wound-free for the first time in over two years has given this young man more energy, as well – he is again working at 75% and sees possibilities instead of just problems with life.

It is quite likely this individual could have been spared at least 1½ years of pain if we could have used PolyMem continuously from the first time he came to our facility.

The other nine ulcers remained closed. The man returned to work (75%) the following year.

This case study was unsupported. Polymed-Scandie and Ferris Mfg. Corp. contributed to this poster design and presentation.
BIBLIOGRAPHY

ORIGINAL POSTER PRESENTED AT*:
10th Anniversary EPUAP Open Meeting. Poster #20.

18th Conference of the European Wound Management Association. Poster #P36.

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

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