CASE STUDY

Extensive Tunneling Lower Leg Wounds with Exposed Tendons Closed Quickly Using Various PolyMem Dressings

INITIATION

AFTER ONLY 8 WEEKS OF POLYMEM
Extensive Tunneling Lower Leg Wounds with Exposed Tendons Closed Quickly Using Various PolyMem Dressings

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PROBLEM
A 67-year-old woman with a ten year history of a severe knee deformity which resulted in poor venous return from her right lower leg came to our clinic with extremely painful 9.0 cm x 4.5 cm and 7.5 cm x 4.5 cm foul-smelling abscesses. The wounds were along her Achilles tendon, which was deteriorating with dried brown areas. The patient's only prior treatment was to cover the wounds with cloth to keep out flies. Co-morbidities included intestinal worms and malaria. She refused hospital debridement.

On the third treatment day, we discovered a 0.5 cm in diameter, 5.5 cm long fistula leading from the distal-most end of the superior abscess to an opening near the medial malleolus. The two main wounds connected from this abscess area and several sinus tracts originated there, too.

MATERIALS AND RATIONALE
The ingredients in PolyMem dressings work synergistically to draw and concentrate the body's natural healing substances into the wound bed to promote rapid healing. These ingredients also facilitate autolytic debridement by loosening bonds between slough and the wound bed. The liquified slough is lifted out of the wound bed and pulled into the dressing to be discarded at dressing changes. Often no manual wound cleansing, which disrupts new tissue growth, or even rinsing, which cools the wound, is needed at dressing changes.

PolyMem Wic® cavity filler is absorbent on all surfaces, while standard PolyMem dressings have an outer semipermeable membrane which facilitates wound moisture optimization. The dressings donate moisture to dry areas of wounds such as exposed tendons while absorbing excess exudate, locking it inside the dressings as a gel. In addition to being non-adherent, these unique dressings inhibit the nociceptor response, so using PolyMem dressings often yields significant relief of wound pain as well as decreased inflammation and edema.

METHODS
Treatment included oral antimicrobials for the patient's malaria, wound infection and intestinal worms; acetaminophen for pain; prayer; nutritional counseling; and direct wound care. Minimal sharp debridement was followed by wound cleansing with a strong salt water solution. The wounds were initially covered with a PolyMem Max® extra-thick dressing coated with triple-antibiotic ointment.

When the woman returned to the clinic on the third day, the PolyMem Max extra-thick dressing had loosened and absorbed enough adherent yellow slough to reveal some of the fistulas and tunneling wounds and the muscle tissue around the exposed tendons was cleaner. The edges of the two large wounds were already granulating.

Foul exudate was rinsed from the tunnels and fistula with the strong salt solution. PolyMem Wic Silver® cavity filler was at first coated with triple-antibiotic ointment (later this was found to be unnecessary) and was inserted into the sinus tracts and fistulas and the deep muscle contours. The area was completely covered with PolyMem Max extra-thick dressings. The lower leg was then wrapped in strips of bedsheets in an attempt to keep out the dust. Elastic bandages were used for a short time, but they wore out quickly in this hot dusty environment.

RESULTS
The woman was adamant in her opposition to hospital treatment. No additional sharp debridement was performed. PolyMem Wic Silver cavity filler and PolyMem Max dressings gradually loosened and absorbed the fibrin/slough. Granulation tissue steadily filled in the wound. All tendons were covered and all tunnels were filled within 6 weeks. Various configurations of PolyMem dressings were used to complete wound closure, which occurred after only 4 months of PolyMem dressing use. The woman’s pain was controlled so well that she could walk with the aid of a stick throughout the treatment.

DISCUSSION and CONCLUSION
PolyMem dressings cleaned and kept these leg wounds with extensive tunnels and exposed tendons infection-free and appropriately moist under very adverse conditions, supporting consistent healing in this patient despite her poor circulation and compromised health. In contrast to negative research reports about other modern silver dressings, healing did not appear to be slowed by cytotoxicity when PolyMem Silver® dressings were used.
OBJECTIVES
1. Review the evidence for the use of PolyMem dressings and PolyMem Wic Silver cavity filler to maintain infection-free appropriate wound moisture balance and promote rapid healing.
2. Recognize how PolyMem dressings, which continuously cleanse wounds, may avoid the disruption of new growth and cooling which is inherent in other methods of wound cleansing.
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This version has been modified from the original; it reflects PolyMem branding.

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