CASE STUDY

PolyMem Silver® Dressings Successful in Bringing Quick Closure to a Chronic Venous Ulcer with an Exposed Tendon in a Patient with Arterial Insufficiency

BEFORE

AFTER
OBJECTIVES

1. Formulate a treatment plan for a deep wound with exposed tendon.
2. Discuss problematic issues related to dressing a painful infected wound.
3. Consider the advantages of using PolyMem dressings, rather than systemic medications, to reduce wound pain.
4. Recognize that some of the modern silver dressings currently being marketed have been shown to be toxic to cells, thus delaying wound healing, but cells in contact with PolyMem Silver dressings have been shown to proliferate.

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PROBLEM
A 47-year-old very tall (5’10”) woman with debilitating rheumatoid arthritis and peripheral vascular disease suffered from an infected venous ulcer of her left leg for well over a year. The ulcer was 1.4 cm long, 1 cm wide and 0.4 cm deep with 0.2 cm of undermining under the entire circumference and a partially exposed tendon at the wound base. It was draining large amounts of purulent yellow exudate. The periwound skin was discolored and edematous. Previous treatments included: antibiotic ointment, an enzymatic debrider and wet-to-dry dressings, which all failed to produce improvement. The wound bed remained 100% fibrin/slough. The patient had been taking an oral antibiotic for pseudomonas three weeks prior to coming to the wound clinic. She was also on prednisone, methotrexate, clostazol and lansoprazole. Her right shoulder and both hips had been replaced due to her arthritis. ABI's were R:0.68, L:0.78. CT angiography of her aorta and iliafemoral artery showed no significant stenosis, but there was calcification of the abdominal aorta. Her wound pain was constant at 5 on a 0 – 10 scale.

RATIONALE
PolyMem dressings are proven to provide significant wound pain relief by inhibiting nociceptor activity at the wound site. PolyMem dressings also contain ingredients which draw and concentrate healing substances from the body into the wound bed to promote rapid healing while facilitating autolytic debridement by loosening the bonds between the slough and the wound bed. These unique dressings are able to add moisture to dry wounds while absorbing excess wound fluid, so they are recommended for dry wounds including exposed tendons and bones as well as for heavily exuding wounds.

Due to the patient’s need for steroids and her serious comorbidities, continued infection was a serious concern. PolyMem Silver dressings have been tested and found to be effective against: Staphylococcus aureus (MRSA and Non-MRSA), Enterococcus faecalis (VRE), Klebsiella pneumoniae, Pseudomonas aeruginosa and Candida albicans. Recently, several conventional modern silver dressings were shown to be severely cytotoxic in vitro and in vivo, but cells in contact with PolyMem Silver dressings proliferated. This further affirms the author’s decision to use PolyMem Silver dressings.

METHODOLOGY
Initially, the wound was dressed with PolyMem Silver wound dressings, but when the cellulitis resolved, PolyMem dressings were employed instead. Dressings were changed 2 to 3 times/week, with the patient doing some of the dressing changes herself. The patient was instructed to elevate her leg and was given a protein supplement. She continued taking her routine medications. The wound was cleansed with saline at each dressing change per facility protocol. After nine days of treatment, the wound cultured positive for Staph. aureus, so the oral antibiotic was renewed.

Compression was not utilized due to the patient’s arterial insufficiency.
RESULTS
Shortly after switching to PolyMem dressings the patient’s pain became intermittent at 2 – 3 instead of constant at 5 on the 0 – 10 scale. Four days after the antibiotic was resumed the exudate was moderate, serosanguineous, and without odor. Undermining healed by nine days, and shortly thereafter the main wound bed began clearing of slough and granulating. The tendon was completely covered by the sixth week of treatment and the wound was completely closed at 8 weeks.

CONCLUSION
The use of PolyMem wound dressings on this patient resulted in reduction of wound pain, a cleaner wound bed and steady healing, including brisk filling in of the undermining and complete coverage over the exposed tendon. Despite the patient’s steroid intake and arterial insufficiency, this tenacious wound that had afflicted her for well over a year closed in only 8 weeks. Further, the patient realized a significant cost-savings associated with fewer weekly dressing changes and her ability to do some of the changes herself.
BIBLIOGRAPHY:


ORIGINAL POSTER PRESENTED AT:


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

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