

An Approach to Treating Neuropathic Pedal Ulcerations with Ovine Collagen Extracellular Matrix (CECM)*

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Introduction:

Neuropathic foot ulcers are limb/life threatening and can be expensive to treat. Many advanced wound care products have been developed in an effort to expedite wound healing. Advanced wound care modalities may not be a viable option for some patients and clinicians. CECM is a dressing that can be applied once a week and does not require fixation with sutures or staples. In this poster, we describe use of CECM on two complex wounds where prior therapies had not resulted in wound closure.

Methods:

This poster describes the use of a CECM in treating two patients with neuropathic pedal ulcerations.

Procedures:

At weekly intervals, sharp mechanical debridement was performed. The wound was then cleansed with sterile saline, followed by application of the CECM. The wound was dressed with a non-adhering contact layer and dry sterile dressings. The CECM dressings were left intact for one week and thereafter re-applied as necessary.

Patient #1 a 63-year-old with diabetes and neuropathy, presented with non-healing surgical wound status post transmetatarsal amputation. The wound failed multiple treatments including mechanical/enzymatic debridement, porcine small intestinal submucosa (SIS)-derived skin substitute, and negative pressure wound therapy. CECM was applied approximately four weeks status post transmetatarsal amputation following weekly mechanical debridements.

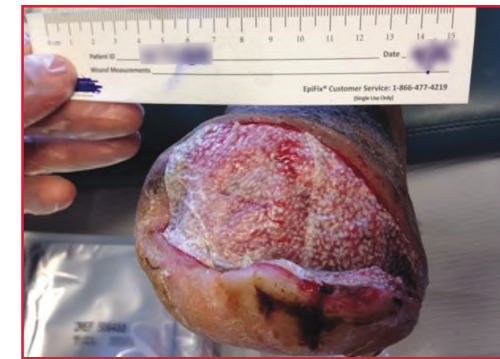
Patient #2 a 69-year-old with diabetes and neuropathy presented with plantar heel ulceration. Previous treatments included saline gauze dressings, eight applications of human fibroblast-derived dermal substitute, and cadexomer iodine gel prior to beginning treatment with the CECM.

Results/Conclusion:

In these two cases, CECM provided a useful approach to treating these complicated wounds. Patient #1 had wound surface area reduction approximately 93% over 12 weeks of treatment. Patient #2 had complete wound closure after a two week period.



Patient 1
 Week 0 Wound measurement:
 10.0 cm x 5.0 cm



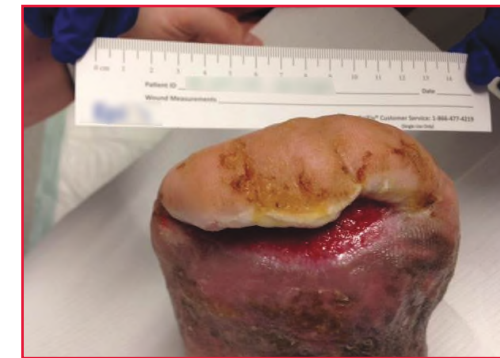
Week 0
 CECM applied.



Patient 2
 Week 0 Wound measurement:
 3.0 cm x 1.6 cm x 0.1 cm



Week 2 Wound measurement:
 9.0 cm x 4.4 cm



Week 5 Wound measurement:
 7.5 cm x 1.5 cm



Week 2 Wound measurement:
 100% Epithelialized



Week 12 Wound measurement:
 3.9 cm x 0.8 cm