

Utilizing a collagen dermal template in various wound etiologies yielded positive results in an outpatient wound care center.

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Purpose:

To present case studies in which a new ovine-derived, collagen dermal template, Endoform dermal template, containing an intact native extracellular matrix is used in various types of wounds. Outpatient wound care centers are often faced with chronic wounds which are known to have a disrupted or damaged ECM.

Method:

Applied the Endoform dermal template directly to the wound bed, and covered with the dressing of choice. Wounds were assessed and findings were documented weekly. Assessment included: the dressing's ability to remain hydrated, ease of application, patient comfort, and wound dimensions.

Conclusion:

The use of a 90% natural, non-reconstituted collagen dermal template with an ECM, Endoform dermal template, for wound bed optimization in chronic wound patients yielded positive outcomes in these patients. The ability to use a collagen dermal template advanced wound product as a precursor to other treatment modalities, while providing a product which is easy to use for clinicians, and provides patient comfort, and offers clinicians an opportunity to offer an innovative approach to the chronic wound patient population.

References

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Case Study 1

Patient with a diabetic foot ulcer to the left foot.

Medical history includes: Neuropathy, hypertension, atrial-fibrillation, congestive heart failure, and diabetes mellitus

Previous wound care treatment: Foam dressings, calcium alginate dressings, honey dressings, and silver dressings.



Week 0
Wound size: 1.0 cm x 1.0 cm x 0.4 cm
Wound treatment: Cleansed with normal saline solution, application of Endoform dermal template, non-stick pad, 4x4 gauze pad, and secured with tape. Dressings were change every 3 days.



Week 2
Wound size: 1.0 cm x 1.0 cm x 0.4 cm
Wound treatment: Cleansed with normal saline solution, application of Endoform dermal template, non-stick pad, 4x4 gauze pad, and secured with tape. Dressings were change every 3 days.



Week 3
Wound size: 1.0 cm x 0.5 cm x 0.2 cm
Wound treatment: Cleansed with normal saline solution, application of Endoform dermal template, non-stick pad, 4x4 gauze pad, and secured with tape. Dressings were change every 3 days.



Week 4
Wound size: 0.5 cm x 0.5 cm x 0.2 cm
Wound treatment: Cleansed with normal saline solution, application of Endoform dermal template, non-stick pad, 4x4 gauze pad, and secured with tape. Dressings were change every 3 days.



Week 5
Wound size: Healed
Wound treatment: Orthotics and protective foot wear.



Week 6
Wound size: Healed
Wound treatment: Orthotics and protective foot wear.

Case Study 2

Patient with a knee pressure ulcer secondary to prosthetic

Medical history includes: Right below knee amputation in 2010, hypertension, hyperlipidemia, Type 2 diabetes mellitus, and diabetic neuropathy.

Previous wound care treatment: Foam dressings, honey dressings, topical silver sulfadiazine antibacterial cream, silver foam dressings.

Wound treatment: Cleansed with normal saline solution, application of Endoform dermal template, covered by a secondary foam dressing, and secured with tape.



Day 1
Wound size: 0.4 cm x 0.3 cm x 0.1 cm



Day 7
Wound healed

Case Study 3

Patient who fell and developed a full thickness skin tear to anterior left knee.

Medical history includes: Hypertension, congestive heart failure, cardiac disease, atrial-fibrillation, and glaucoma.

Previous wound care treatment: Wound cleansed with normal

saline solution, applied dry dressing. Changed as needed for drainage collection. Returned to facility or primary care physician after 10 days for removal of stitches.

Initial treatment photograph: Day two post injury



Day 2: Post injury
Dimensions at onset: 14.0 cm x 0.0 cm x 0.0 cm
Wound treatment: Cleansed with soap and water, normal saline solution hydrated Hydrofera Blue bacteriostatic foam dressing, with cover dressing, and film dressing. Scheduled dressing changes were anticipated every 5-7 days.



Week 3: One week suture removal



Week 4
Wound measurements: 8.0 cm x 4.0 cm x 0.6 cm
Wound treatment: Cleansed with soap and water, application of Endoform dermal template, normal saline solution hydrated Hydrofera Blue foam dressing, with cover dressing, and film dressing. Scheduled dressing changes were anticipated every 5-7 days.



Week 5
Wound measurements: 5.0 cm x 3.4 cm x 0.6 cm
Wound Treatment: Cleansed with soap and water, application of Endoform dermal template, normal saline solution hydrated Hydrofera Blue foam dressing, with cover dressing, and film dressing. Scheduled dressing changes were anticipated every 5-7 days.



Week 5



Application of dressing



Application of dressing



Week 6
Wound measurements: 4.3 cm x 1.1 cm x 0.3 cm
Wound Treatment: Cleansed with soap and water, application of collagen dermal template with an ECM, normal saline solution hydrated Hydrofera Blue foam dressing, with cover dressing, and film dressing. Scheduled dressing changes were anticipated every 5-7 days.



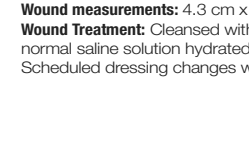
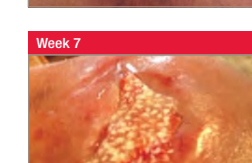
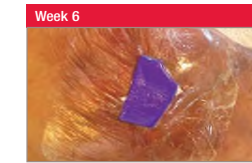
Week 6



Week 6



Week 6



Week 7
Wound measurements: 1.0 cm x 0.4 cm x 0.0 cm
Wound treatment: Cleansed with soap and water, application of Endoform dermal template, normal saline solution hydrated Hydrofera Blue bacteriostatic foam dressing, with cover dressing, and film dressing. Scheduled dressing changes were anticipated every 5-7 days.