The use of a collagen dermal template with an ECM in various wounds in Acute Care and Outpatient wound care settings.

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Abstract
Chronic wounds are known to have a disrupted or damaged extracellular matrix (ECM). Case studies in an outpatient wound care clinic utilized a 90% natural, non-reconstituted collagen dermal template with an ECM, Endoforum dermal template. Wound care treatments which included a collagen-based dressing application have proven to be beneficial. In several case studies with wounds of mixed etiology, the Endoforum dermal template was directly applied to the wound bed to assess the effects of the product on differing acute and chronic wounds in an inpatient hospital setting.

Method:
A weekly wound visit was completed to assess for the following:
1. Decreased wound dimensions
2. Patient comfort
3. Product incorporation into wound bed
4. Ease of application

Conclusion:
The use of a 90% natural, non-reconstituted collagen dermal template with an ECM, Endoforum dermal template, in various types of wounds yielded positive outcomes. The ability to use a collagen-based advanced wound product to assist in healing chronic wounds, from day one, provided:

References:
3. HPFAA Codes A0221, A0222 collagen dressing
4. Endoforum dermal template instructions for use

Case Study 1
Patient admitted with a diagnosis of atelectasis of the right post-throat secondary to wound culture positive test of Methicillin-resistant Staphylococcus aureus (MRSA).

Day 1: Initial wound treatment upon admission: Wound cleaned with normal saline solution, sharp debridement of nonviable tissue, wound packed with silkr hydrogel sheet, covered with a foam dressing, and secured with tape. Dimensions at onset: 1.0 cm x 2.0 cm x 0.8 cm

Case Study 2
Patient presented to the emergency room with an open wound to the right foot. The patient was assessed and diagnosed with a wound infection to the right plantar foot. Past medical history: Diabetes mellitus

Previous treatments: Wound cleaned with normal saline solution, applied moistened gauze into the wound bed, covered with dry gauze and secured with tape. Dressing changed twice daily. Patient discharged to follow up with primary care provider.

Case Study 3
Patient presented to the emergency room with an open wound of three weeks. The patient stated that the drainage was increasing and had a foul smell. Upon assessment of the lesion, the patient was diagnosed with catarrhalis of the scalp secondary to wound abscess.

Previous wound care treatment: Wound cleansed with normal saline solution, hydrogel sheet with foam dressing applied. Dressing changed daily.

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Image 1:
Collagen dermal template with ECM visible
Wound treatment: Cleansed with normal saline solution, application of Endoforum dermal template. NPWT foam dressing set to 125mmHg continuous pressure applied until the patient returned to the clinic in four days.

Image 2:
Aurora dermal template with ECM visible
Wound treatment: The wound was assessed and found to be barely red and granulated with progress noted from onset. Cleansed with normal saline solution, application of Endoforum dermal template. NPWT foam dressing set to 125mmHg continuous pressure applied until the patient returned to the clinic in four days.

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Image 3:
Collagen dermal template with ECM visible
Wound treatment: Wound cleansed with normal saline solution, sharp debridement of Nontiable tissue, wound packed with silkr hydrogel sheet, covered with a foam dressing, and secured with tape. Dimensions at onset: 1.0 cm x 2.0 cm x 0.8 cm

Image 4:
Aurora dermal template with ECM visible
Wound treatment: Wound cleansed with normal saline solution, sharp debridement of Nontiable tissue, wound packed with silkr hydrogel sheet, covered with a foam dressing, and secured with tape. Dimensions at onset: 1.0 cm x 2.0 cm x 0.8 cm

Week 1
Wound dimension: 1.0 cm x 2.0 cm x 0.8 cm
Wound treatment: Wound cleansed with normal saline solution, sharp debridement of Nontiable tissue, wound packed with silkr hydrogel sheet, covered with a foam dressing, and secured with tape.

Week 2
Wound dimension: 1.0 cm x 1.4 cm x 0.1 cm
Wound treatment: Wound cleansed with normal saline solution, Endoforum dermal template applied, secondary dressing of NPWT with parameters set to 125mmHg continual pressure with follow up in four to five days.

Week 3
Wound dimension: 1.0 cm x 1.2 cm x 0.1 cm
Wound treatment: Wound cleansed with normal saline solution, Endoforum dermal template applied, secondary dressing of NPWT with parameters set to 125mmHg continual pressure with follow up in four to five days.

Week 4
Wound dimension: 0.8 cm x 1.3 cm x 0.1 cm
Wound treatment: Healed
Week 10
Wound dimension: 0.8 cm x 1.3 cm x 0.1 cm
Wound treatment: Healed