Results from Application to an Absorbable Synthetic Membrane to Superficial and Deep Second Degree Wounds.

Sigrid A. Blome-Eberwein MD  
*Lehigh Valley Health Network, sigri.blome-eberwein@lvhn.org*

Patrick Pagella MSN, ARNP, BSN, RN  
*Lehigh Valley Health Network, Patrick.Pagella@lvhn.org*

Deborah Boorse RN, CNP  
*Lehigh Valley Health Network, Deborah.Boorse@lvhn.org*

Hamed Amani MD  
*Lehigh Valley Health Network, Hamed.Amani@lvhn.org*

Follow this and additional works at: [https://scholarlyworks.lvhn.org/surgery](https://scholarlyworks.lvhn.org/surgery)

Part of the [Other Medical Specialties Commons](https://scholarlyworks.lvhn.org/surgery), and the [Surgery Commons](https://scholarlyworks.lvhn.org/surgery)

Published In/Presented At  

This Poster is brought to you for free and open access by LVHN Scholarly Works. It has been accepted for inclusion in LVHN Scholarly Works by an authorized administrator. For more information, please contact LibraryServices@lvhn.org.
OBJECTIVES
- Understand different treatment options for second degree burns
- Compare outcomes after different treatments for second degree burns
- Discuss outcome measures for second degree burns
- Evaluate cost of different treatment options for second degree burns

RESULTS
- Average time to healing: 12.05 days
- Average pain level throughout: 2/10
- Area of Infection: 3/85 = 3.5%
- Area of progression to FT: 7/85 = 8.2%
- Hypertrophic scarring: 6/58 = 10.43%

Comparison Lactic Acid Membrane, Collagen Synthetic Membrane with Fetal Cells and Calcium Alginate + AG on Donor Sites

OUTCOME PARAMETERS
- Pain (average)
- Failure (required removal/grafting)
- Hypertrophic scarring

STUDY DESIGN
- Retrospective chart review
- 2nd degree wounds (2A and 2B)
- Patient received wound debridement under sedation/anesthesia and absorbable synthetic lactic acid based membrane was placed (= standard care)
- Study period: 9/1/2013 - 9/30/2014
- IRB approval was obtained

CASE STUDY
9 week old with 26% TBSA
Membrane applied 5 hours after burn after dermabrasion
Staph aureus pneumonia
Exstubation day 7
Discharge home day 13

Cost Analysis

Comparison to Other Skin Substitutes
Results Retrospective/prospective Comparison Collagen Membrane with Fetal Cells vs. Ointment Treatment for Second Degree Burns (partially previously not published)

Lactic Acid Membrane, Collagen Synthetic Membrane with Fetal Cells and Calcium Alginate + AG on Donor Sites