

# Retrospective Chart Review of Fetal Bovine Dermal Repair Scaffold in the Treatment of Chronic Wounds

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## Introduction

Cellular tissue-based products (CTPs) are the standard of care for treatment of chronic wounds. There are over 100 CPTs commercially available. Determining which CTP to utilize on different wound and tissue types is not clearly established. Fetal bovine dermal repair scaffold (FBDRS) is a unique scaffold for management of challenging wounds. This acellular dermal matrix is derived from fetal bovine dermis and is particularly rich in Type III collagen.

## Methods

A single-center retrospective chart review was conducted to collect data on patients with chronic venous leg/foot ulcers treated with FBDRS from January 1, 2013, through December 31, 2019. Data collection included demographic information, medical/surgical history, medication history, previous wound treatments, wound description, wound size, length of treatment, time to wound healing, number of product applications, dates of applications, complications, and recurrences. The primary endpoint was complete wound closure 12 weeks post initial application.

## Results

<b>N = 42, 56% Male</b>	<b>Baseline Mean Wound Surface Area = 27cm<sup>2</sup> (SD: 36.1)</b>
<b>Mean Age = 68.5</b>	<b>40% of subjects failed prior therapies</b>
<b>Race: 56% White, 23% Black, 14% Asian</b>	<b>71% wounds &gt; 20cm<sup>2</sup></b>
<b>Comorbidities: 79% peripheral vascular disease</b>	<b>Average Wound Duration at Baseline = 15.0 months (SD: 15.8)</b>

**Mean FBDRS Applications = 1.6 (1-4), 12 weeks after initial application....**

**28%**

Healed

**87%**

Reduction in Mean Surface Area

**Overall...**

**54%**

Of Wounds Healed

**84 days**

Mean Time to Closure

**35.3%**

Healing Rate of Wounds that did not heal with other CTPs

**73.7**

Mean Age of Subjects who Healed

The **absence of diabetes** (P=0.01), **wound drainage** (P=0.01) and **slough** (p=0.006) were predictors of wound closure.

## Conclusion

Application of FBDRS was safe, economic, and effective for treatment of chronic venous leg/foot ulcers including wounds that had failed to heal with other therapies and CTPs.

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