Case Examples: Enabling Closure of Previously Stalled Chronic Wounds with SAM™

Prospective Clinical Trial Demonstrating Accelerated Healing of Chronic Wounds

Manning SW, Humphrey DA, Shillinglaw WR, et al. Efficacy of a Bioresorbable Matrix in Healing Complex Chronic Wounds: An Open-Label Prospective Pilot Study. *Wounds.* 2020;32(11):309-318.

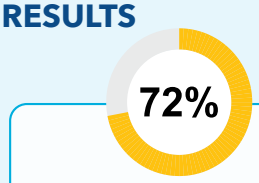
BACKGROUND:

At baseline, **all wounds (N=32) were non-healing for an average of 40 weeks**, consisting primarily of DFUs & VLUs.

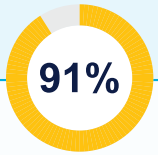
METHOD:

Patients received SOC & SAM™ 1-3x/week.

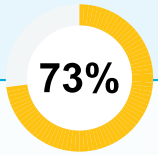
RESULTS



Chronic wounds improved with average closure of 66% within 3 weeks



Wounds **healed completely or improved significantly** within 12 weeks



Average wound area reduction

Positive Outcomes in Clinically Stalled Wounds

Representative Diabetic Foot Ulcer **Previously Stalled at 31 Weeks**

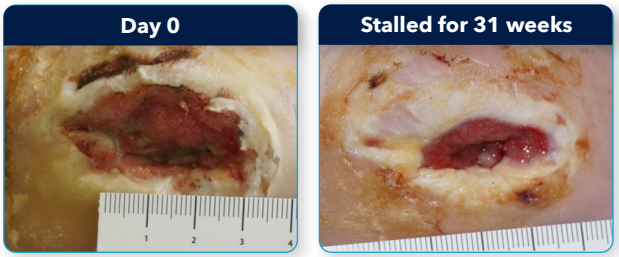
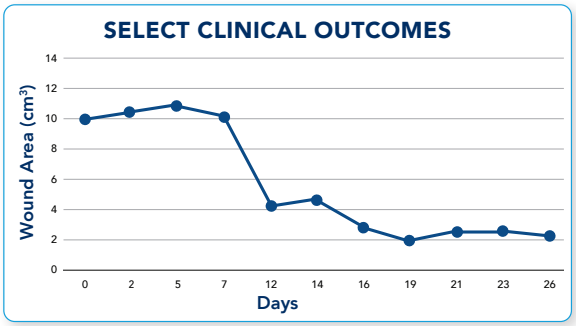


Figure: **Ulcer was 77% closed** after 4 weeks (26 days) of 2-3 weekly applications



Representative Burn Healing **Previously Stalled at 5 Weeks**

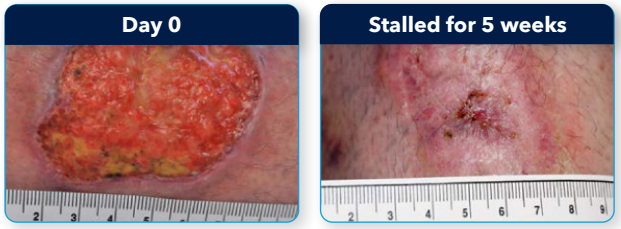
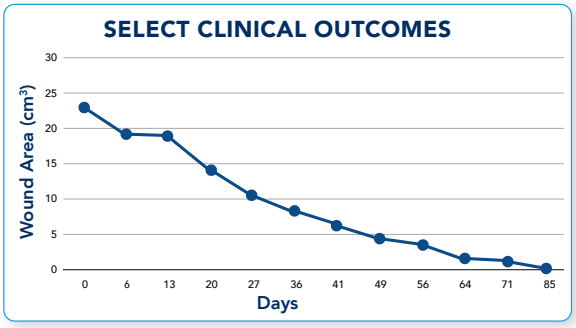
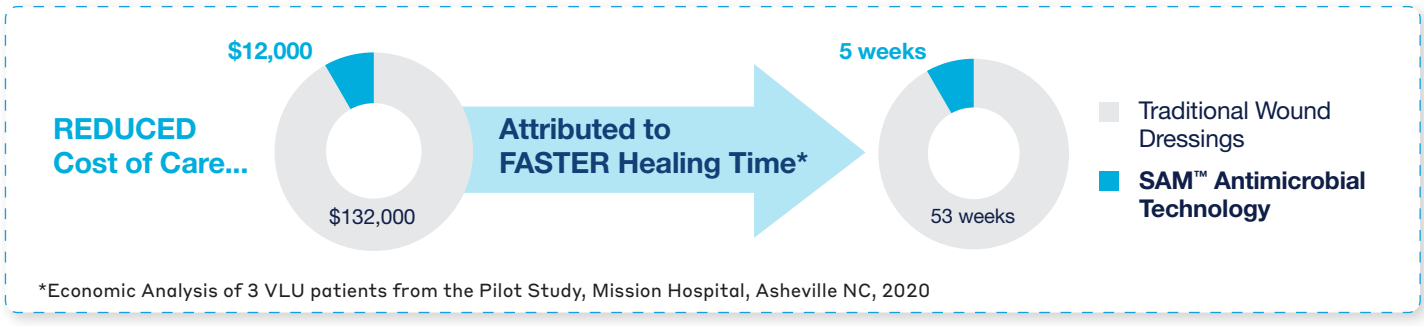


Figure: **Wound was completely closed after 12 weeks** with once-weekly applications





*Economic Analysis of 3 VLU patients from the Pilot Study, Mission Hospital, Asheville NC, 2020

DFU - Diabetic Foot Ulcer
VLU - Venous Leg Ulcer
SOC - Standard of Care

Imbed BIOSCIENCES

Case Examples: Prevention of Surgical Site Infection in Post-Operative Healing of Diabetic Wounds with SAM™

WOUNDS
A Compendium of Clinical Research and Practice

Prospective Clinical Study Examining Post-Operative Wound Healing in Diabetic Patients

Chatelain R. The Efficacy of a Novel Silver-Containing Bioresorbable Microfilm Matrix in At-Risk Surgical Wounds: A Clinical Case Series. *Wounds*. 2021 Oct;33(10):245-252.

BACKGROUND:

Diabetic patients (N=22) undergoing foot/ankle surgery (13% infection rate typical in this population).

METHOD:

Patients received SOC & SAM™ applied deep to the incision prior to closure.

RESULTS

0%

Infection rate at both initial follow up (3-5 days) & end of the study (30 days)

100%

Heal rate of per-protocol* & average of 21 days to complete healing

ZERO

No adverse effects & no foreign body response to enclosed microfilm matrix at the incision site

Efficacy of Novel Biocompatible Microfilm Matrix in High-Risk Surgical Wounds

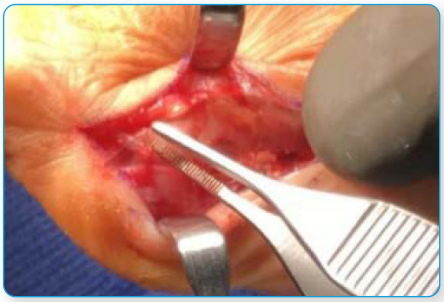


Figure: Photograph of placement of SAM™ into an ankle surgical incision

Representative Patient with History of NSTI

Figure: Successful healing of Achilles tendon repair site

Representative Patient with Cellulitis & Osteomyelitis

Figure: Patient with grade 3 diabetic foot ulcer cleared after 19 days post-op

SOC – Standard of Care
NSTI – Necrotizing Soft Tissue Infection
*In 2 patients, time to healing was delayed secondary to weight-bearing dehiscence.

Imbed BIOSCIENCES