



# Your first step is wound bed prep

Optimize and prepare the  
wound for final closure

# Start with wound bed prep for healing success

**Hard-to-heal wounds**, often stuck in a prolonged inflammatory phase, fail to progress through the normal stages of healing. This results in excess matrix metalloproteinases (MMPs), which degrade the extracellular matrix and growth factors essential for tissue repair, further impairing healing.<sup>1,2</sup>

Wound bed preparation is a fundamental component of standard of care for chronic, hard-to-heal wounds. Following holistic assessment and diagnosis, wound bed preparation should be initiated promptly and continued throughout the treatment pathway.

Using the TIMERS<sup>3</sup> framework, clinicians should prepare by the wound bed by:

- **Removing non-viable tissue**
- **Controlling infection and biofilm**
- **Managing exudate to maintain optimal moisture balance**
- **Promoting advancement of the wound edge**

All of these are critical steps to promote healing and facilitate the successful application of advanced therapies and other wound closure techniques (i.e., flaps, grafts, etc.).<sup>3</sup>

Wound bed preparation is critical to enable healing and support the success of advanced interventions to encourage wound closure.<sup>3</sup>



## Did you know?

An expert panel and broader clinician group reached **98% agreement** that conjunctive therapy of Promogran Prisma Matrix and ActiV.A.C. Therapy System should be considered for use in:<sup>4</sup>

- **Inflamed wounds**
- **Stalled and/or hard-to-heal wounds**
- **Wounds that are slow to granulation with traditional negative pressure wound therapy alone**
- **The earliest opportunity once deemed clinically appropriate**

## A powerful pair for wound bed prep



### Clinical evidence for Promogran Prisma Matrix:

- **Increased wound closure rates:**  
A meta-analysis showed that wounds treated with collagen/ORC dressings were **3.4 times** more likely to close compared to standard dressings (OR = 3.4, 95% CI [1.15, 10.1],  $p = 0.027$ ).<sup>5</sup>
- **Fewer withdrawals due to infection:**  
An RCT showed fewer withdrawals because of infection with Promogran Prisma Matrix.<sup>6</sup>



### Key components of Promogran Prisma Matrix:

#### Collagen — 55%

- Acts as a **sacrificial substrate** for excessive MMP<sup>7</sup>
- **Bioresorbable**<sup>8</sup> into amino acids which can be reused by cells to make new proteins
- Encourages the movement of neutrophils, macrophages and fibroblasts, **stimulating new tissue growth**<sup>9</sup>

#### Oxidized Regenerated Cellulose (ORC) — 44%

*In vitro* studies have demonstrated the potential benefits of ORC:<sup>10</sup>

- **Protects growth factors** from degradation
- **Reduces protease** activity levels, specifically **elastase**

#### Silver (Ag) — 1% Ag/ORC

Due to the antibacterial properties of silver, Promogran Prisma Matrix is known to provide an effective **antibacterial barrier** against common wound pathogens *in vitro*.<sup>11</sup>

By integrating advanced therapies like Promogran Prisma Matrix and ActiV.A.C. Therapy System, clinicians can address complex wound types, including diabetic ulcers, venous leg ulcers, pressure injuries, surgical wounds and more, showing benefits such as:<sup>4,12</sup>

- **Faster time to granulation tissue development**
- **Reduced wound area and volume**
- **Improved wound bed preparation outcomes**

A consensus panel recommendation outlined the use of Promogran Prisma Matrix with ActiV.A.C. Therapy System and V.A.C.® Granufoam Dressings to be considered at the **earliest opportunity** once deemed clinically appropriate.<sup>4</sup>

## CASE STUDY

### Chronic wound after hallux amputation treated with Promogran Prisma Matrix and ActiV.A.C. Therapy System



Silver, collagen, and oxidized regenerated cellulose (ORC) dressing with negative pressure wound therapy (NPWT) and reticulated open cell foam (ROCF) dressing use in a chronic wound after hallux amputation of the left foot.

- A. Chronic wound of the left foot at presentation.
- B. Wound 3 days after ulcer excision and partial resection of the first ray. Fenestrated Promogran Prisma Matrix in combination with ActiV.A.C. Therapy System with V.A.C.® Granufoam Dressing was initiated.
- C. Wound after 4 weeks, ActiV.A.C. Therapy System was discontinued. Use of Promogran Prisma Matrix with a secondary dressing continued for an additional two weeks.
- D. Wound fully healed 6 weeks after surgery.

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protect growth factors  
cleaning  
prepare for closure  
lower MMPs  
antimicrobial action  
reduce inflammation  
lower elastase  
remove bacteria  
microstrain  
promote granulation  
reduce edema  
remove exudate  
optimize healing  
promote perfusion  
draw wound edges together  
macrostrain



#### ActiV.A.C. Therapy Unit with V.A.C.® Dressings

- Creates macrostrain and microstrain
- Removes exudate
- Removes infectious material
- Reduces edema
- Promotes granulation tissue formation

Wounds treated with the combination of ActiV.A.C. Therapy System and Promogran Prisma Matrix showed **40%** reduction in wound area compared to a **9%** reduction with ActiV.A.C. Therapy System alone.  
( $p = 0.0099$ )

*Retrospective data analysis<sup>12</sup>*

# Promogran Prisma Matrix and ActiV.A.C. Therapy System

Combined, these two leading wound treatment therapies have been shown to support improved healing outcomes.<sup>12</sup>



To order the ActiV.A.C. Therapy System, visit [go.solventum.com/express](https://go.solventum.com/express)

## ORDERING INFORMATION

### 3M™ Promogran Prisma™ Collagen Matrix with ORC and Silver

| Item Code | Eaches/Carton/Case | Size                 | HCPCS Code |
|-----------|--------------------|----------------------|------------|
| MA028**   | 10 ea/ct - 4 ct/cs | 4.34 sq. in. Hexagon | A6021      |
| MA123**   | 10 ea/ct - 4 ct/cs | 19.1 sq. in. Hexagon | A6022      |

V.A.C.® Peel and Place Dressing may be used to bolster flaps and grafts.\*



### 3M™ Promogran Prisma™ Rope Collagen Matrix with ORC and Silver

| Item Code | Eaches/Carton/Case | Size                       | HCPCS Code |
|-----------|--------------------|----------------------------|------------|
| MA032†    | 6 ea/ct - 4 ct/cs  | 3/8" x 3/8" x 12 5/8" Rope | A6024      |

### 3M™ Promogran™ Collagen Matrix with ORC

| Item Code | Eaches/Carton/Case | Size                 | HCPCS Code |
|-----------|--------------------|----------------------|------------|
| PG004†    | 10 ea/ct - 4 ct/cs | 4.34 sq. in. Hexagon | A6021      |
| PG019†    | 10 ea/ct - 4 ct/cs | 19.1 sq. in. Hexagon | A6022      |

\*Promogran Prisma Matrix can be used in combination with the ActiV.A.C. Therapy System and associated dressings. Associated dressings include the V.A.C.® Granufoam Dressing, Solventum™ V.A.C.® Simplace™ Dressings with either Solventum™ V.A.C.® Drape or Solventum™ Dermatac™ Drape, and V.A.C.® Peel and Place Dressings.

\*\*Only MA028 and MA123 are indicated for use with ActiV.A.C. Therapy Unit and associated dressings.

†Not indicated for use with negative pressure wound therapy.

**NOTE: Specific indications, contraindications, warnings, precautions and safety information exist for these products and therapies. Please consult a clinician and product instructions for use prior to application. Rx only.**

1. Mulder G, Lavery LA, Marston WA et al (2024) Skin substitutes for the management of hard-to-heal wounds. London: Wounds International. [www.woundsinternational.com](https://www.woundsinternational.com)
2. Przekora A (2020) A concise review on tissue engineered artificial skin grafts for chronic wound treatment: can we reconstruct functional skin tissue in vitro? Cells 9(7): 1622.
3. Atkin L, Bucko Z, Conde Montero E, et al. Implementing TIMERS: the race against hard-to-heal wounds. J Wound Care. 2019;23 (Suppl 3a):S1-S50.)
4. Klein R, Desvigne MN, Greenstein E, et al. Use of Silver Collagen Oxidized Regenerated Cellulose Dressings in Conjunction With Negative Pressure Wound Therapy: Expert Panel Consensus Recommendations. Wounds. 2024; 36 (8): 263-273
5. Chowdhry SA, Nieves-Malloure Y, Camardo M, et al. Use of oxidized regenerated cellulose/collagen dressings versus standard of care over multiple wound types: A systematic review and meta-analysis. Int Wound J. 2022; 19(2): 241-252.
6. Gottrup F, Cullen B, Karlsmark T, et al. Randomized controlled trial on collagen/oxidized regenerated cellulose /silver treatment. Wound Repair & Regeneration 2013; 21: 1-10.
7. Schultz GS, Ladwig G, Wysocki A. Extracellular Matrix: a review of its roles in acute and chronic wounds. World Wide Wounds. 2005; Accessed August 19, 2020. <http://www.worldwidewounds.com/2005/august/Schultz/Extrace-Matric-Acute-Chronic-Wounds.html>.
8. Wagermaier W, Fratzl P. Collagen. In: Moeller M, Matyjaszewski K, eds. Polymer Science: A Comprehensive Reference. 1st ed. Elsevier Focal Press Science and Tech. 2012:35–55.
9. Postlewaite AE, Seyer JM, Kang AH. Chemotactic attraction of human fibroblasts to type I, II and III collagens and collagen-derived peptides. Proc Nat Acad Sci USA. 1978;75(2):871–875.
10. Cullen B, Watt PW, Lundqvist C, et al. The role of oxidized regenerated cellulose/collagen in chronic wound repair and its potential mechanism of action. Int J Biochem Cell Biol 2002; 34(12): 1544-56.
11. Bourdillon KA, Delury C, Cullen B. Biofilms and delayed healing – an in vitro evaluation of silver and iodine containing dressings and their effect on bacterial and human cells. Int Wound J. 2017. ISSN 1742-4801.
12. Hou Y, Griffin L. Comparative Effectiveness of Negative Pressure Wound Therapy with and Without Oxidized Regenerated Cellulose/Collagen/Silver-ORC Dressing. Adv Wound Care (New Rochelle). 2025; 14(6): 285-294; doi: 10.1089/wound.2023.0128. Epub 2024 Jul 8. PMID: 38666689.



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For more information, please refer to the following resources:

- Contact your local Solventum representative
- Call Solventum Customer Care at 1-800-228-3957
- Visit [Solventum.com](https://www.solventum.com)
- Call Solventum Negative Pressure Wound Therapy 24/7 Support at 1-800-275-4524

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