

A comparative effectiveness study of 3M™ Promogran Prisma™ Matrix to Puracol® Microscaffold™ Collagen Wound Dressing

3M™ Promogran Prisma™ Matrix



Comparative effectiveness between 3M™ Promogran Prisma™ Matrix and Puracol® Microscaffold™ Collagen Wound Dressing.¹



Promogran Prisma Matrix is comprised of a sterile, freeze dried composite of:

- **44%** Oxidized Regenerated Cellulose (ORC)
- **55%** Collagen
- **1%** Silver-ORC (*silver-ORC contains 25% w/w ionically bound silver, a well-known antimicrobial agent.*)

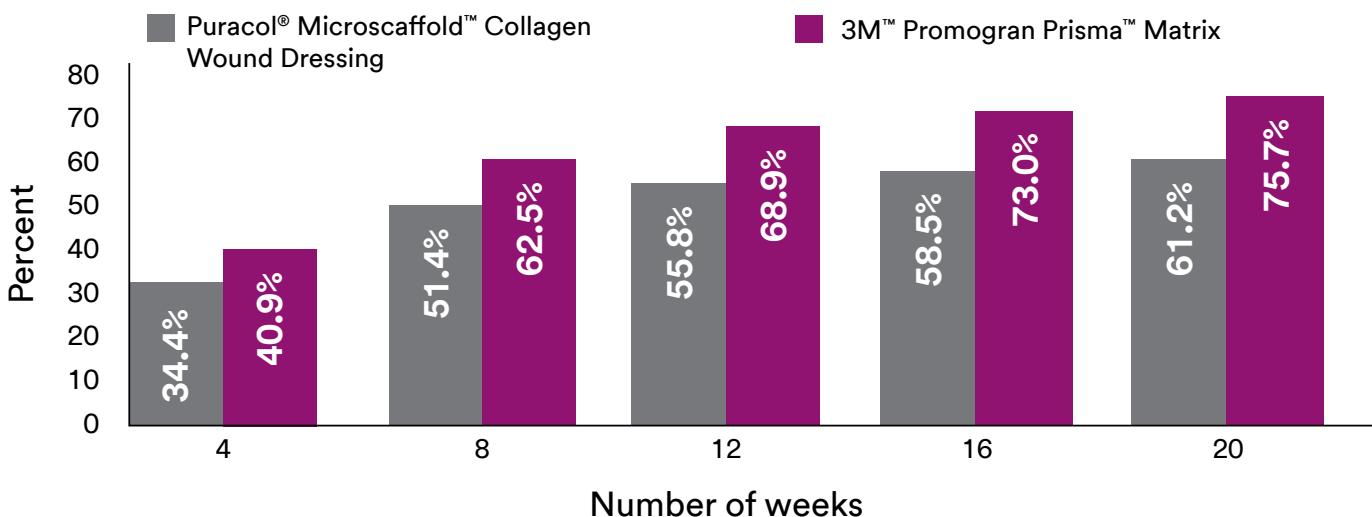
Puracol® Microscaffold™ Collagen Wound Dressing is a native collagen wound dressing.

A comparative effectiveness study of 664 surgical and traumatic wounds (332 in each product group) were identified in the US Wound Registry (USWR) as having complete data records using the two dressings, with no significant differences in patient demographics, patient comorbidities, or baseline wound characteristics.¹

Results:

- A significantly higher percentage of the Promogran Prisma Matrix wounds reached 75-100% granulation with zero depth at 83.5% (247/296) compared to 67% (197/294) of the Puracol® Microscaffold™ Collagen Wound Dressing wounds.¹ ($p < 0.0001$)
- Promogran Prisma Matrix showed a greater percentage of wounds reaching 75-100% granulation with zero depth faster over 4, 8, 12, 16 and 20 weeks.¹

Percent reaching 75%-100% granulation¹



3M™ Promogran Prisma™ Matrix left a smaller wound area behind than Puracol® Microscaffold™ Collagen Wound Dressing.¹

▶ **.11** cm²
Median final wound area
3M™ Promogran Prisma™ Matrix

.15 cm²
Median final wound area
Puracol® Microscaffold™ Collagen Wound Dressing

Results:

There was a significant difference between Promogran Prisma Matrix and Puracol® Microscaffold™ Collagen Wound Dressing.

Out of 332 patients in each group

187 wounds healed

56.3%

vs

132 wounds healed

39.8%

3M™ Promogran Prisma™ Matrix ($p < 0.0001$)¹

Puracol® Microscaffold™ Collagen Wound Dressing

Puracol® Microscaffold™ Collagen Wound Dressing wounds had a higher percentage of patients with wounds worsening during treatment.

35 wounds worsened

10.5%

vs

26 wounds worsened

7.8%

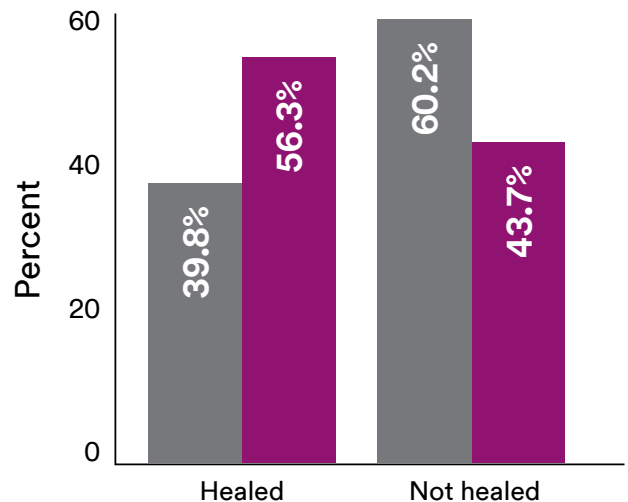
Puracol® Microscaffold™ Collagen Wound Dressing ($p = 0.0004$)¹

3M™ Promogran Prisma™ Matrix

Healed or not healed comparison¹

■ Puracol® Microscaffold™ Collagen Wound Dressing

■ 3M™ Promogran Prisma™ Matrix



Wound demographic		Puracol® Microscaffold™ Collagen Wound Dressing n=332	3M™ Promogran Prisma™ Matrix n=332	p-value
Initial area (cm ²) ¹	Median (IQR)	3 (0.8, 10.4)	3 (0.8, 9.9)	0.8256
Wound age at first encounter (days) ¹	Median (IQR)	14 (4, 34)	15 (4, 41.5)	0.5703
Wound healing index	Mean ± SD	75.6 ± 13.0	75.2 ± 15.0	0.1296
Lag time to first collagen application (days) ¹	Median (IQR)	14 (0, 34.5)	12.8 (0, 28)	0.2995
Duration of collagen use: time between first and last application (days) ¹	Median (IQR)	8.9 (0, 27.6)	12.8 (0, 29.5)	0.0210
Number of applications ¹	Median (IQR)	3 (2, 6)	3 (2, 5)	0.2318
Application rate (days between) ¹	Median (IQR)	2.3 (0, 4.7)	3.5 (0, 7)	0.0012
Duration of collagen (days) in wounds that healed ¹	Median (IQR)	12 (0, 28.9)	14 (0, 46.1)	0.1835

3M™ Promogran Prisma™ Matrix: lasts longer¹

For the application rate or days between collagen applications, Promogran Prisma Matrix was reapplied on average every 3.5 days and Puracol® Microscaffold™ Collagen Wound Dressing was changed on average every 2.3 days.¹ (p=0.0012)

During the time between the first and last application of collagen (in days), 3 Promogran Prisma Matrix Dressings lasted for a median of 12.8 days compared to a median of 8.9 days for 3 Puracol® Microscaffold™ Collagen Wound Dressing¹ (p=0.0210)

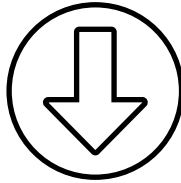
There are differences between collagen dressings, but only Promogran Prisma Matrix offers the combination of ORC, collagen and silver.

The combination of ORC+collagen+silver has been shown to:



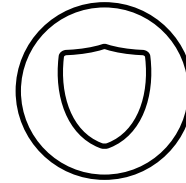
Promote

granulation tissue formation in *in vivo* studies.²



Reduce

protease activity, specifically elastase and mmps, in *in vitro* studies.³



Protect

from bacterial bioburden in *in vitro* studies.⁴
Maintain a moist wound environment in *in vivo* studies.²

Ordering Promogran Prisma Matrix

3M Product Code	Size	Dressings per Box	HCPCS Code
MA028	4.34 sq. in. hexagon	10 ea/ct - 4 ct/bx	A6021
MA123	19.1 sq. in. hexagon	10 ea/ct - 4 ct/bx	A6022
MA032	3/8" x 3/8" x 12 5/8" rope	6 ea/ct - 4 ct/bx	A6024

To learn more about the benefits of 3M™ Promogran Prisma™ Matrix contact your local 3M representative.

References:

1. Griffin L. Comparative effectiveness study to compare 3M™ Promogran Prisma™ and Puracol® Microscaffold™ Collagen Wound Dressing. HEOR-2018-003.DAR. November 2018.
2. Cullen B, Gibson M, Nisbet L. Early adoption of collagen/ORC therapies improves clinical outcomes. Poster presented at: World Union of Wound Healing Societies (WUWHS); 2012; Japan.
3. Cullen B, Watt P, 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):1544-1556.
4. 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 Dec;14(6):1066-1075.

Follow local institutional protocols for infection control and waste disposal procedures. Local protocols should be based on the applicable federal, state and/or local government environmental regulations.

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.



3M Company
2510 Conway Ave
St. Paul, MN 55144 USA

Phone 1-800-275-4524 (NPWT products)
1-800-228-3957
Web 3M.com/medical

© 2021 3M. All rights reserved. 3M and the other marks shown are marks and/or registered marks.
Unauthorized use prohibited. 70-2013-1039-1 PRA-PM-US-01091 (11/21)