

3M™ Prevena™ Therapy

# The power to protect

Advancing the standard of care  
for plastic surgery incisions  
beyond the operating room





# Patient care following plastic surgery goes beyond in the operating room.

In an increasingly overwhelmed healthcare system, surgeons are asked to do more with fewer resources, potentially creating complications for patients that extend beyond the operating room. These complications can create a ripple effect of consequences, like disrupted healing, extended hospital stays and poor patient outcomes.

## Managing the ripple effect

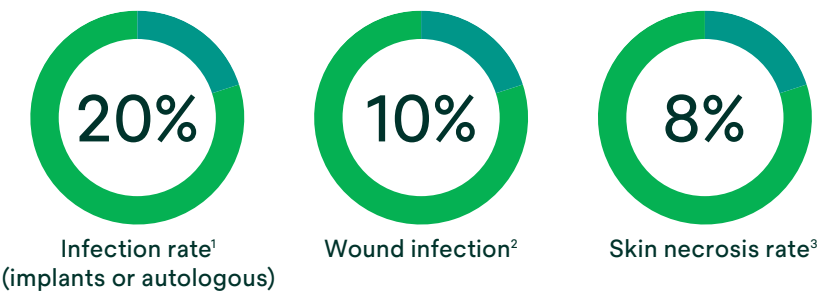
Today's complex care environment makes protecting against the ripple effect of surgical site complications a priority, and clinicians are increasingly adopting lower-touch solutions that promote:

- Efficiency and cost-effectiveness
- Minimal complications
- Home-based recovery
- Minimal hospital stays
- Low readmissions
- Telehealth consultations
- Portability of care

## Recognising the risks of plastic surgery

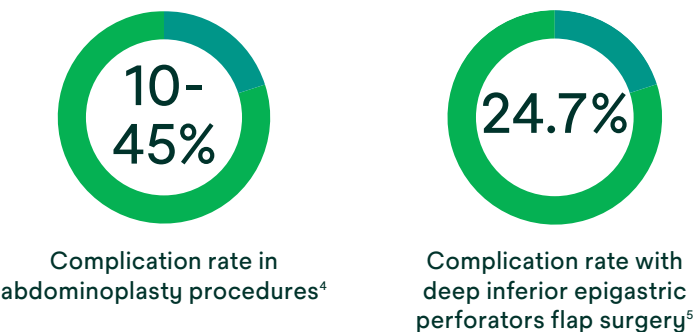
### After mastectomy or breast reconstruction:

Postmastectomy breast reconstruction is on the rise, and more patients are requesting and qualifying for immediate reconstruction, which has a higher complication rate.



### After abdominal surgery:

Perfusion-related complications like infection, seroma, hematoma and necrosis are common with abdominal surgeries, and many may become complex and costly complications.





# Extend your control over postoperative healing.

A peer-reviewed meta-analysis of 16 studies across various plastic surgery procedures demonstrated Prevena Therapy helped significantly reduce the risk of various surgical site complications (SSCs) compared to the standard of care, while helping to improve health economic outcomes.<sup>8</sup>

Prevena Therapy offers surgeons the confidence to help protect patients beyond the operating room.



Acting as a barrier to external contamination.



Decreasing lateral tension of sutured/stapled incisions.<sup>6</sup>



Delivering continuous -125 mmHg up to 7 or 14 days.\*



Removing fluids and infectious materials.\*\*



Helping to hold incision edges together.



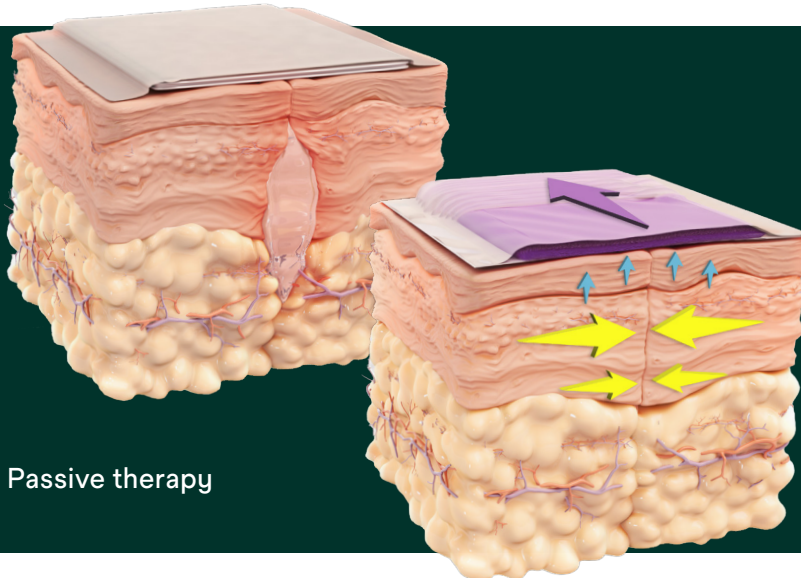
Reducing oedema.

\*Maximum length of therapy with 3M™ Prevena™ Therapy Platform is 7 days. Maximum length of therapy with 3M™ Prevena Restor™ Therapy Platform is 14 days.  
\*\*In a canister.

3M™ Prevena™ Dressings and 3M™ Prevena Restor™ Dressings can be applied to various procedures and anatomical locations.

# The advanced science of 3M™ Prevena™ Therapy.

Prevena Therapy utilizes continuous -125 mmHg negative pressure therapy, reticulated open cell foam (ROCF) dressing technology, and optimised exudate management (replaceable canister) over closed incisions to help enhance healing.



Passive therapy

Prevena Therapy

- Yellow arrow: Appositional force
- Blue arrow: Tissue decompression
- Purple arrow: Direction of fluid

## Designed to help optimise postoperative care:

- Contours allow for even distribution of negative pressure
- Adhesive film creates a barrier to external contaminants
- Improved fluid management\*
- Conforms to allow movement
- Contains 0.019% ionic silver to help reduce bacterial colonisation in the fabric

## How Prevena Therapy may help reduce postoperative oedema.

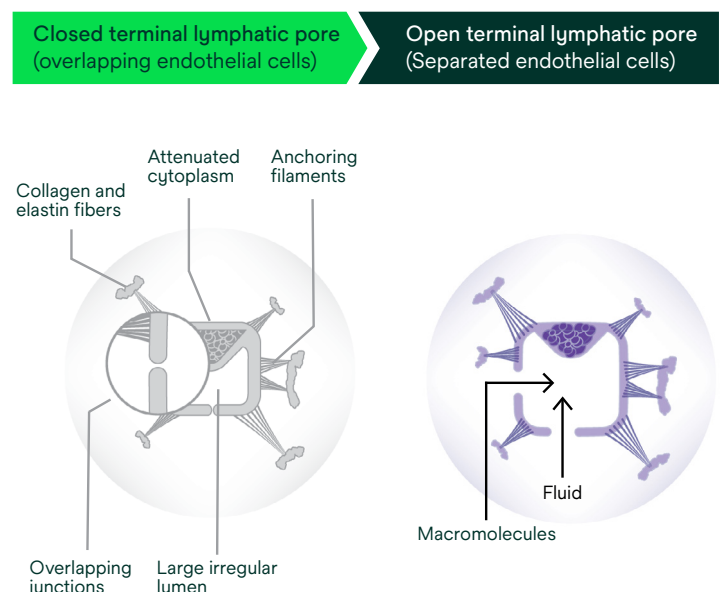
The effects of negative pressure therapy applied to intact skin were evaluated using finite element analysis (FEA).<sup>7</sup>

Based on the analysis, it is hypothesized that negative pressure therapy on intact skin provides volumetric expansion that may help:

- Expand the tissue beneath the dressing, pulling the tissue open
- Lower local interstitial fluid pressure
- Open lymphatics to allow fluid clearance

With oedema

Without oedema

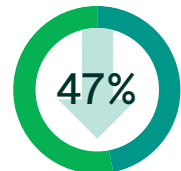


\*In a canister.

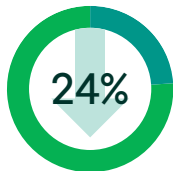
# Clinical evidence supporting the use of 3M™ Prevena™ Therapy is growing.

A peer-reviewed meta-analysis of 16 studies across various plastic surgery procedures demonstrated Prevena Therapy helped significantly reduce the risk of various surgical site complications (SSCs) compared to the standard of care, while helping to improve health economic outcomes.<sup>8</sup>

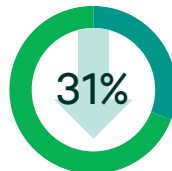
## Reduced clinical complication risk:



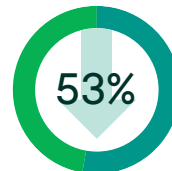
Surgical site complications  
11 studies;  $p < 0.001^{**}$



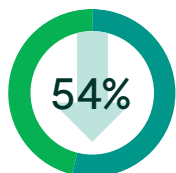
Surgical site infections  
8 studies;  $p = 0.113$



Seromas  
8 studies;  $p = 0.358$



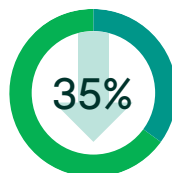
Dehiscence\*  
11 studies;  $p = 0.001^{**}$



Skin necrosis\*  
5 studies;  $p = 0.002^{**}$



Drainage  
8 studies;  $p < 0.069^{**}$



Reoperation  
8 studies;  $p = 0.074^{**}$



Hospital length of stay  
5 studies;  $p < 0.001^{**}$

To access more peer reviewed clinical evidence, simply scan the QR code below to request your copy of our clinical evidence compendium.



## Backed by science. Trusted by many.

Prevena Therapy is utilised and trusted by many clinicians worldwide to help manage closed incisions for at-risk patients and procedures.



200+  
peer-reviewed  
clinical articles\*\*



30+  
randomised  
controlled trials\*\*



From hospital



To home

\*Statistically significant ( $p < 0.05$ ).  
Calculation(s) are derived based on the relative patient group incidence rate reported in this study.

\*\*As of November 2022.

# Rethink incision management.

## Acts as a barrier

Designed to minimise external contamination to help reduce surgical site complications.

## Precision designed

Dressings seamlessly conform to the patient for even distribution of negative pressure and allows for patient movement.

## Easy to use

A variety of peel and place dressings are available, plus customisable options.

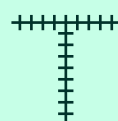
## Shower-friendly

See Prevena Therapy Patient and Clinician Guides for additional details.

## 3M™ Prevena™ Dressings

### Linear coverage

Prevena Peel and Place Dressings help protect and manage the environment of closed surgical incisions and remove fluid away from the surgical incision via the application of continuous negative pressure.



#### Linear coverage

Designed to manage linear, intersecting, and multiple incisions

#### Pre-shaped designs for peel and place application



3M™ Prevena™ Peel and Place Dressing – 13 cm



3M™ Prevena™ Peel and Place Dressing – 20 cm



3M™ Prevena™ Plus Peel and Place Dressing – 35 cm

#### Designed for flexibility and user customization

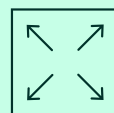


3M™ Prevena™ Customizable Dressing

## 3M™ Prevena Restor™ Dressings

### Area Coverage

Prevena Restor Dressings offer comprehensive protection for a variety of anatomical locations. When combined with negative pressure, the dressings help provide stabilisation and help protect the surgical site and surrounding soft tissue from complications and swelling.



#### Expanded coverage area

Designed to extend coverage and manage the surgical site and surrounding soft tissue envelope.

#### Pre-shaped designs for peel and place application



3M™ Prevena Restor™ Arthro•Form™ Dressing



3M™ Prevena Restor™ Bella•Form™ Dressing



# Compatible with Solventum negative pressure wound therapy devices.



## 3M™ Prevena™ Plus 125 Therapy Unit

One single-use negative pressure therapy unit compatible with all 3M™ Prevena™ Dressings.

### Negative pressure features:

- Pre-set, continuous negative pressure therapy at -125 mmHg for up to 7 or 14 days\*
- Disposable, single patient use
- Rechargeable battery

### Specifications:

- Dimensions: Approx 8.9 x 16.3 x 5.49 cm
- Weight with empty canister: 0.29 kg



Prevena Dressings are also compatible with Solventum traditional negative pressure therapy devices:

3M™ V.A.C.® Ultra Therapy Unit, 3M™ ActiV.A.C.® Therapy Unit

## Ordering Information

SKU	Description	UOM
<b>Therapy devices</b>		
PRE4010	3M™ Prevena™ Plus 125 Therapy Unit – 14 day	Each
<b>Dressings</b>		
PRE1155	3M™ Prevena™ Peel and Place Dressing – 13 cm	Case of 5
PRE1055	3M™ Prevena™ Peel and Place Dressing – 20 cm	Case of 5
PRE3255	3M™ Prevena™ Plus Peel and Place Dressing – 35 cm	Case of 5
PRE4055	3M™ Prevena™ Plus Customizable Dressing	Case of 5
PRE5055	3M™ Prevena Restor™ Arthro•Form™ Dressing – 33 cm x 30 cm	Case of 5
PRE5155	3M™ Prevena Restor™ Arthro•Form™ Dressing – 46 cm x 30 cm	Case of 5
PRE5255	3M™ Prevena Restor™ Bella•Form™ Dressing – 21 cm x 19 cm	Case of 5
PRE5355	3M™ Prevena Restor™ Bella•Form™ Dressing – 24 cm x 22 cm	Case of 5
PRE5455	3M™ Prevena Restor™ Bella•Form™ Dressing – 29 cm x 27 cm	Case of 5
<b>Accessories</b>		
PRE1095	3M™ Prevena™ 45 ml Canister	Case of 5
PRE4095	3M™ Prevena™ Plus 150 ml Canister	Case of 5
PRE9090	3M™ Prevena™ Therapy V.A.C.® Connector	Case of 10
<b>Kits</b>		
PRE1001	3M™ Prevena™ Incision Management System – 20 cm	Each
PRE1101	3M™ Prevena™ Incision Management System – 13 cm	Each
PRE3201	3M™ Prevena™ Plus Incision Management System – 35 cm	Each
PRE4001	3M™ Prevena™ Plus Customizable Incision Management System	Each
PRE1121	3M™ Prevena™ Duo Incision Management System – 13 cm/13 cm	Each
PRE5001	3M™ Prevena Restor™ Arthro•Form™ Incision Management System – 33 cm x 30 cm	Each
PRE5101	3M™ Prevena Restor™ Arthro•Form™ Incision Management System – 46 cm x 30 cm	Each
PRE5221	3M™ Prevena Restor™ Bella•Form™ Incision Management System – 21 cm x 19 cm	Each
PRE5321	3M™ Prevena Restor™ Bella•Form™ Incision Management System – 24 cm x 24 cm	Each
PRE5421	3M™ Prevena Restor™ Bella•Form™ Incision Management System – 29 cm x 27 cm	Each

\*Maximum length of therapy with 3M™ Prevena™ Therapy Platform is 7 days. Maximum length of therapy with 3M™ Prevena Restor™ Therapy Platform is 14 days.

# Discover more at Prevena Central.



Prevena Central is your one-stop platform for all things 3M™ Prevena™ Therapy. Designed with busy healthcare professionals in mind, Prevena Central provides incision management resources that help to advance the standard of care.

To access Prevena Central visit  
[www.3M.co.uk/Prevena](http://www.3M.co.uk/Prevena) or scan the QR code.



**Note:** Specific indications, limitations, contraindications, warnings, precautions and safety information exist for these products and therapies. Please consult a clinician and product instructions for use prior to application. This material is intended for healthcare professionals.

#### References:

1. Jaggi R, Jiang J, Momoh AO, et al. Complications After Mastectomy and Immediate Breast Reconstruction for Breast Cancer: A Claims-Based Analysis. *Ann Surg.* 2016;263(2):219-27.
2. Bennett KG, Qi J, Kim HM, et al. Comparison of 2-Year Complication Rates Among Common Techniques for Postmastectomy Breast Reconstruction. *JAMA Surg.* 2018;153(10):901-908.
3. Sue GR, Long C, Lee GK. Management of Mastectomy Skin Necrosis in Implant Based Breast Reconstruction. *Ann Plast Surg.* 2017;78(5 Suppl 4):S208-S211.
4. Bullocks J, Basu CB, Hsu P, et al. Prevention of Hematomas and Seromas. *Semin Plast Surg.* 2006;20(4):233-240.
5. Krishnan NM, Purnell C, Nahabedian MY, et al. The cost effectiveness of the DIEP flap relative to the muscle-sparing TRAM flap in postmastectomy breast reconstruction. *Plast Reconstr Surg.* 2015;135(4):948-958.
6. Wilkes RP, Kilpadi DV, Zhao Y, et al. Closed incision management with negative pressure wound therapy (CIM): Biomechanics. *Surg Innov.* 2012;19(1):67-75.
7. Haridas B, Kieswetter K, Haggerty M. Test Report: Negative Pressure Therapy on Intact Skin: Poroelastic Finite Element Modeling of Interstitial Fluid Pressures. DOC-0000049240 Rev A, 1-13. 6-27-2019. San Antonio, TX, KCI. Ref Type: Report.
8. Gabriel A, Singh D, Silverman R, Collinsworth A, Bongards C, Griffin L. Closed Incision Negative Pressure Therapy Versus Standard of Care Over Closed Plastic Surgery Incisions in the Reduction of Surgical Site Complications: A Systematic Review and Meta-Analysis of Comparative Studies. *ePlasty.* March 2023 ISSN 1937-5719. Index ePlasty 2023;23:e22



**KCI Medical Limited**  
Charnwood Campus  
10 Bakewell Road  
Loughborough, LE11 5RB  
United Kingdom

+44 (0)1509 611 611  
[Solventum.com](http://Solventum.com)

**KCI Medical Limited**  
Citywest Business Campus  
2050 Orchard Avenue  
Dublin 24  
Ireland

1800 333 377

©Solventum 2024. All Rights Reserved. Solventum and the S logo are trademarks of Solventum or its affiliates. 3M and the 3M logo are trademarks of 3M. Other trademarks are the property of their respective owners. EMEA\_70-2013-1627-3