



High performance skin protection for IV sites

3M™ Cavilon™ No Sting Barrier Film and
3M™ Cavilon™ Advanced Skin Protectant





An ideal way for you to protect skin around vascular access sites

Catheter-associated skin damage (CASI) is localized skin damage around the vascular access site¹ and encompasses more than medical adhesive-related skin injury (MARS), including factors such as drainage and erythema under a dressing. Preparation of the skin and selection of proper adhesive products are important steps to help minimize the risk of skin damage.²

CASI is not a new condition, but it has been added to The Infusion Nurses Society (INS) 2024 *Infusion Therapy Standards of Practice* to reflect the growing focus on patient-centered infusion care. Among the 2024 standards are guidelines to help protect at-risk skin from irritation and possible injury.



INS recommended steps to help reduce CASI¹



Assess the patient (Std. 52, pg. S192)

- Check vascular access device (VAD) sites for signs of injury (*Level II*).
- Check color, texture, uniformity of appearance and integrity of skin (*Level II*).
- If skin injury is noted, assess the severity to determine impact on Vascular Access Device, the treatment regimen and management (*Level IV*).



Skin protection (Std. 52, pg. S191 Level II)

- Aseptically, apply an alcohol-free skin barrier product that is compatible with the antiseptic solution, enhancing protection for the skin around the VAD insertion site.

CASI Algorithm

For a detailed and thorough guide on assessing patients for CASI, as well as the steps you can take to protect skin and provide comfort, see the full standards for the CASI Algorithm. (Appendix B, pg. S255)

Two powerful solutions, one goal for your patients: improved outcomes

Protecting skin at IV sites is essential for maintaining patient comfort, preventing complications and supporting optimal healing. As catheter-associated skin damage (CASI) becomes a growing focus in infusion care, using clinically proven skin protection solutions is more important than ever. 3M™ Cavilon™ No Sting Barrier Film and 3M™ Cavilon™ Advanced Skin Protectant are two trusted solutions that help safeguard healthy skin from adhesive trauma, moisture, friction and other irritants — providing a foundation for healthier outcomes and more confident care.

Why clinicians trust both skin protection solutions



Effective protection with a waterproof, breathable, fast-drying barrier³



Compatibility with 3M™ Tegaderm™ IV Dressings



A formulation that's sting-free,⁴ alcohol-free,⁴ non-cytotoxic and have low-dermatitis potential



Single-use applicators that reduce the potential for cross-contamination



Chemical compatibility with chlorhexidine-gluconate (CHG)⁵



Does not promote microbial growth

3M™ Cavilon™ No Sting Barrier Film

Ideal for:

- Healthy and intact skin
- Applications that will require gentle or frequent removals
- On skin that is clean and dry



Gentle Removal

- Proven to protect the skin during dressing removal

3M™ Cavilon™ Advanced Skin Protectant

Ideal for:

- Healthy and intact skin; at risk, denuded or damaged skin
- On locations which are difficult to maintain dressing integrity
- On wet, weepy skin



Adhesive performance

- Attaches to wet, weepy, damaged skin⁹
- Shown to increase the adhesion of acrylic-based adhesive dressings^{**}



*As shown in an ex-vivo porcine study

**Refer to IFU as needed for dry times and use of adhesive remover when appropriate

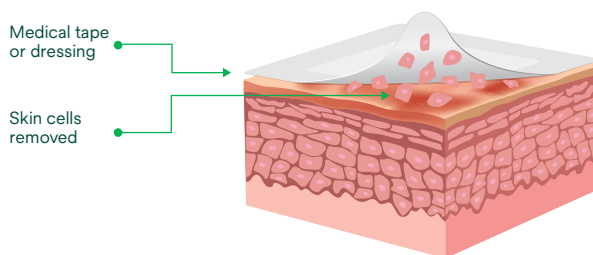
3M™ Cavilon™ No Sting Barrier Film

How it works

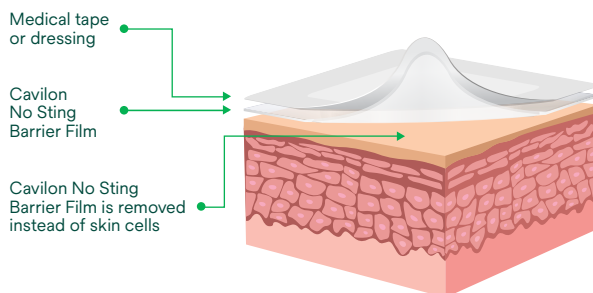
Cavilon No Sting Barrier Film forms a breathable, transparent, protective coating between the skin and the adhesive of the securement dressing, device or tape. When the adhesive product is changed, Cavilon No Sting Barrier Film is removed instead of skin cell layers.¹⁰ It also protects skin from moisture, friction and shear.

Protection from adhesive products

Without Cavilon No Sting Barrier Film

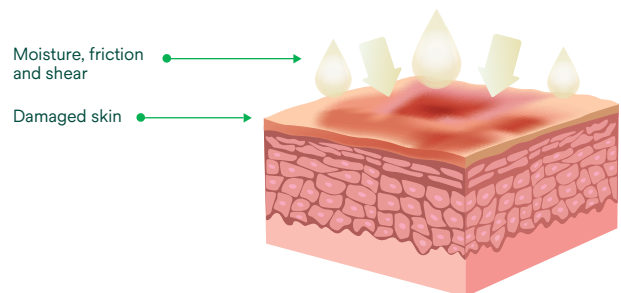


With Cavilon No Sting Barrier Film

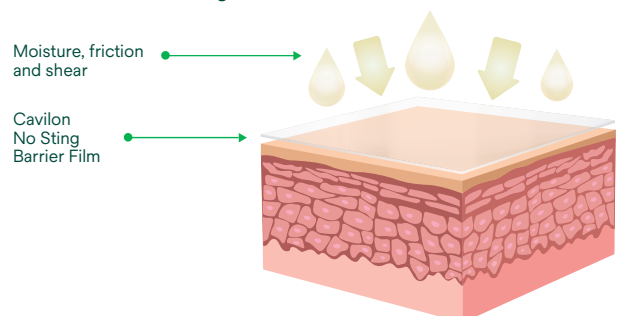


Protection from moisture, friction and shear

Without Cavilon No Sting Barrier Film

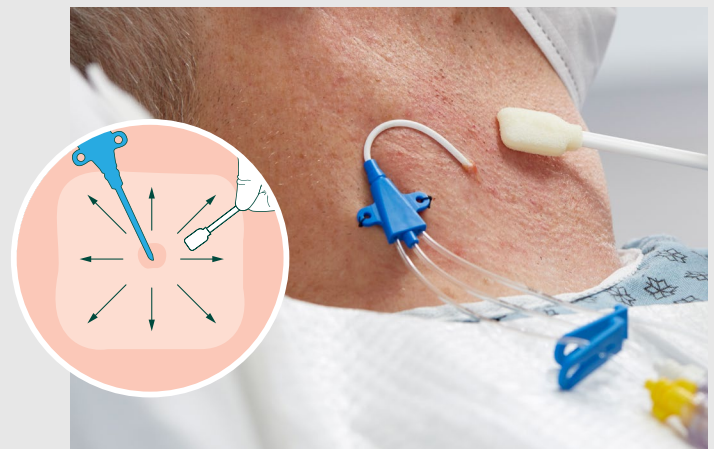


With Cavilon No Sting Barrier Film



Applying Cavilon No Sting Barrier Film

1. Apply antiseptic preparation and allow to dry completely
2. Insert catheter
3. Apply an even coating of Cavilon No Sting Barrier Film to the area that will be covered by the adhesive dressing/device. If using 3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing, do not apply the film to skin where the CHG gel pad is placed
4. Allow Cavilon No Sting Barrier Film to dry completely (approximately 30 seconds)
5. Apply dressing



If not using CHG gel pad, product can be applied up to insertion site

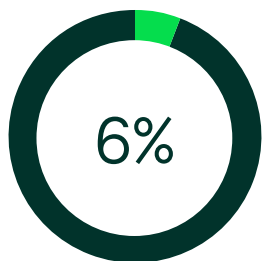
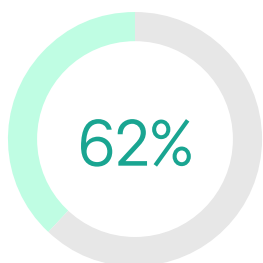


How it performs

Cavilon No Sting Barrier Film is supported by more than 80 pieces of evidence, including studies focusing on vascular access-specific data.

In a study with patients with **Peripherally Inserted Central Catheter (PICC) lines**:⁶

62% of patients (n=50) experienced skin complications with gauze or tape applied



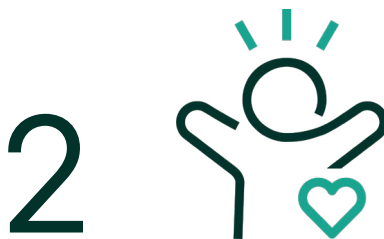
of patients (n=50) experienced skin complications with **Cavilon No Sting Barrier** applied before gauze and tape protocol

Conclusion

Skin barriers can help play a role in reducing skin-related complications in patients with long-term PICC lines. Cavilon No Sting Barrier Film was shown to provide significant skin protection when used prior to gauze and tape protocol.

In a study with critical care patients with **Central Venous Access Devices**:⁷

17 patients (n=30) experienced complete dressing disruptions when using a plain film dressing and no barrier film



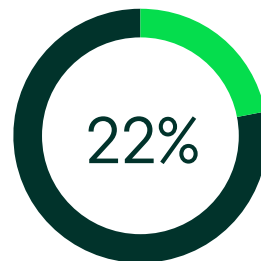
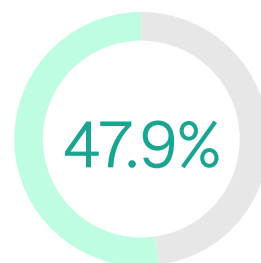
patients (n=30) experienced complete dressing disruptions when **Cavilon No Sting Barrier** was applied when using CHG dressing

Conclusion

The skin-protective polymer of Cavilon No Sting Barrier Film was shown to contribute to fewer dressing disruptions and skin integrity issues without impacting the clinical effectiveness of a CHG dressing.

In a study with critical care patients with **Central Venous Catheters (CVC) receiving gauze and tape dressings**:⁸

47.9% of patients (n=48) in the control group experienced a skin tear



of patients (n=50) experienced a skin tear with **Cavilon No Sting Barrier Film** applied

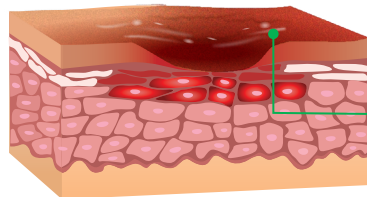
Conclusion

A skin barrier can help maintain skin integrity and reduce skin tear incidence. The authors noted the skin protection provided by Cavilon No Sting Barrier Film could help improve comfort and quality of care for patients with CVCs receiving gauze and tape dressings.

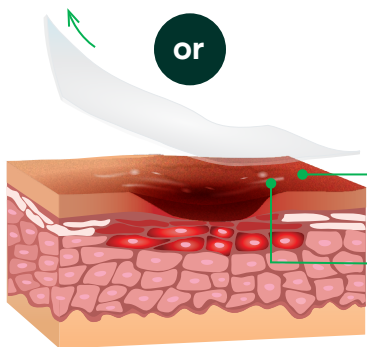
3M™ Cavilon™ Advanced Skin Protectant

How it works

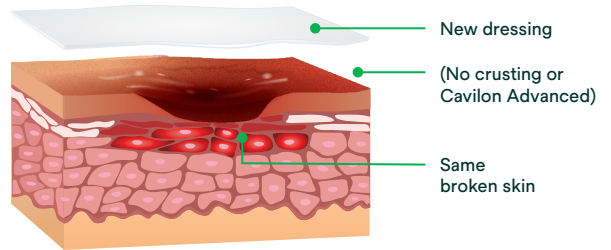
Designed to be used even in the most challenging conditions, Cavilon Advanced Skin Protectant is different from traditional skin barriers. With a long-lasting barrier that protects the skin for up to seven days, Cavilon Advanced Skin Protectant has been shown to protect damaged skin to allow/enable healing to occur.



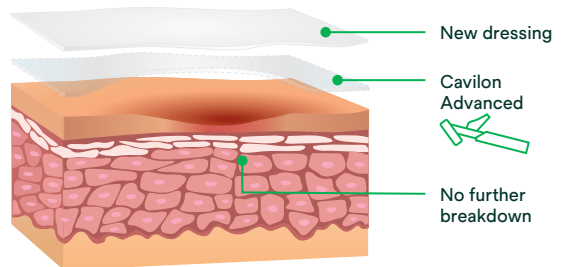
Damaged skin



Damaged skin at dressing removal



Immediately adding another dressing could result in the same damage



Applying Cavilon Advanced before adding another dressing allows skin to recover

Applying Cavilon Advanced Skin Protectant

1. Apply antiseptic as protocols specify
2. Open sterilized packaging
3. Hold wand with sponge pointed down, click and wait 10 seconds
4. Apply Cavilon Advanced Skin Protectant in even, non-overlapping strokes, pressing gently, not firm
5. If using 3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing, do not apply the film to skin where the CHG gel pad is placed. (If not using CHG gel pad, apply product to the area that will be covered by the adhesive dressing/device.)
6. Wait a minimum of **60 seconds** before applying dressing

Upon removal, use an adhesive remover containing hexamethyldisilazane (HMDS) to reduce the risk of skin damage.

Note: Ensure use of Cavilon Advanced Skin Protectant is properly documented or noted to avoid potential complications from increased dressing adhesion. No other protectant or tackifier products are recommended for use in combination with Cavilon Advanced Skin Protectant.



Important tip:

If covering a limited area, express fluid on package cover before first application to avoid excess fluid.



Cavilon Advanced Skin Protectant has been shown to increase the adhesion of acrylic-based adhesive dressings

- Ensure use of Cavilon Advanced Skin Protectant is properly documented or noted to avoid potential complications from increased dressing adhesion.
- Use an adhesive remover containing HMDS to remove an adhesive product that has been placed over the film. This is especially important for patients with fragile skin.

Cavilon Advanced Skin Protectant packaging and applicator support aseptic delivery technique

- Product is housed in sterile packaging.
- Solution in ampoule does not support microbial growth.



Ordering information



3M™ Cavilon™ No Sting Barrier Film

Cat No	Size	Applicator Type	Items/Box	Boxes/Case	HCPCS Code
3343	1 mL	Wand	25	4	Skin Care: A6250 Ostomy: A5120
3344	1 mL	Wipe	30	4	Skin Care: A6250 Ostomy: A5120
3345	3 mL	Wand	25	4	Skin Care: A6250 Ostomy: A5120

Scan here to learn more about Cavilon No Sting Barrier Film



3M™ Cavilon™ Advanced Skin Protectant

Cat No	Size	Approximate coverage	Ideal for:	Items/Box	HCPCS Code
5050	2.7 mL applicator	100 sq. in.	Protecting skin IAD prevention and management	20	A6250
5051	0.7 mL applicator	25 sq. in.	IV skin management and peri tube	20	—

Scan here to learn more about Cavilon Advanced Skin Protectant



*RX only. See instructions for use.

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.

References:

1. Gorski LA, Hadaway L, Hagle ME, et al. Infusion therapy standards of practice. *J Infus Nurs.* 2021;44(suppl 1): S1-S224.
2. Broadhurst D, Moureau N, Ullman AJ, The World Congress of Vascular Access (WoCOVA) Skin Impairment Management Panel. Management of Central Venous Access Device-Associated Skin Impairment. *J Wound Ostomy Continence Nurs.* 2017 May/June; 44(3):211-220.
3. Solventum data on file. EM-05-005732 and EM-05-002049.
4. Solventum data on file. EM-05-001563, EM-05-289804 (dry time).
5. Campbell K, Woodbury MG, Whittle H, Labate T, Hoskin A. A clinical evaluation of 3M™ Cavilon™ No Sting Barrier Film. *Ostomy Wound Management.* 2000;46(1):24-30.
6. George M, Ujwala P, Guduri, V, Smith G. Use of a barrier film (3M™ Cavilon™ No Sting Barrier Film) to reduce local skin complications around peripherally inserted central catheter lines: A randomised prospective controlled study. *WCET Journal.* 2016; 36(4):8-13.
7. Pivkina AI, Gusarov VG, Blot SI, Zhivotneva IV, Pasko NV, Zamyatin MN. Effect of an acrylic terpolymer barrier film beneath transparent catheter dressings on skin integrity, risk of dressing disruption, catheter colonisation and infection. *Intensive Crit Care Nurs.* 2018; 46: 17-23.
8. Chen Y-H, Hsieh H-L, Shih W-M. Applying skin barrier film for skin tear management in patients with central venous catheterization. *Adv Skin Wound Care.* 2020; 33(11): 582-586.
9. Brennan, Mary R.; Milne, Catherine T.; Agrell-Kann, Marie; Ekholm, Bruce P. Clinical Evaluation of a Skin Protectant for the Management of Incontinence Associated Dermatitis: An Open-Label, Nonrandomized, Prospective Study. *J of Wound, Ostomy & Continence Nursing.* 2017. 44(2):172-180.
10. Solventum Data on file 2013; EM-05-202211.



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Solventum, formerly 3M Health Care

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