



3M

Tegaderm™

CHG Chlorhexidine Gluconate
I.V. Securement Dressing

**The choice
is clear.**

Reduce risks across extraluminal access points.

Bloodstream infections: A critical issue for every health care facility.

All IVs are at risk for microbial contamination. Bloodstream infections are associated with significant increases in care and costs. They are more common than you think and, in some cases, they can be deadly.

Nationwide, the annual cost to treat CLABSI exceeds

\$2.3 billion¹



CRBSIs are associated with

1.57x

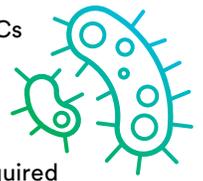
higher risk of mortality in critically ill adults²



Short-term PVCs accounted for

23%

of hospital-acquired CRBSIs³



Sources of infection

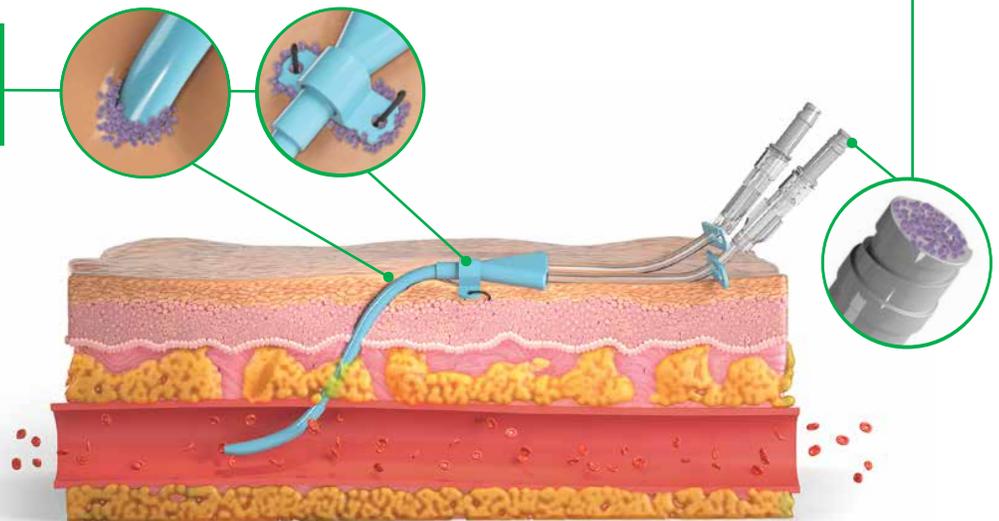
While vascular catheters provide the advantage of prolonged venous access, they present a risk of infectious complications. In fact, 60% of all hospital-acquired bloodstream infections originate from some form of vascular access.⁴ These infections can be acquired at the time of the initial insertion or anytime throughout the duration of the venous access.⁵

INTRALUMINAL CONTAMINATION

Results when bacteria migrate through the catheter post insertion, typically via contamination of the lumen through the catheter port.

EXTRALUMINAL CONTAMINATION

Results when bacteria originating on the surface of the skin migrate along the outside of the catheter and enter through the insertion site.



1. Pronovost P, Needham D, Berenholtz S, et al. An intervention to decrease catheter-related bloodstream infections in the ICU. *N Engl J Med*. 2006;355(26):2725-2732.

2. Siempos II, Kopterides P, Tsangaris I, Dimopoulou I, Armaganidis AE. Impact of catheter-related bloodstream infections on the mortality of critically ill patients: A meta-analysis. *Crit Care Med*. 2009;37(7):2283-2289.

3. Mermel L. Short-term Peripheral Venous Catheter-Related Bloodstream Infections: A Systematic Review. *Clin Infect Dis*. 2017;65(10):1757-1762.

4. Scheithauer S, Lewalter K, Schröder J, et al. Reduction of central venous line-associated bloodstream infection rates by using a chlorhexidine-containing dressing. *Infection*. 2014;42(1):155-159.

5. Association for Professionals in Infection Control and Epidemiology, Inc. APIC Implementation Guide: Guide to Preventing Central Line-Associated Bloodstream Infections, 2015. https://apic.org/Resource_/TinyMceFileManager/2015/APIC_CLABSI_WEB.pdf.

All you need. All in one. The only one.

3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing is the **ONLY** transparent dressing cleared by the Food and Drug Administration (FDA) to reduce catheter-related bloodstream infections and vascular catheter colonization that aligns with evidence-based guidelines and practice standards.



The chlorhexidine gluconate (CHG) gel pad provides immediate and continuous antimicrobial protection.

Aligns to standards and guidelines.

Recommendations for use of chlorhexidine-impregnated dressings.

✓ FDA

The Food and Drug Administration

Tegaderm™ CHG I.V. Securement Dressing is intended to reduce vascular catheter colonization and catheter-related bloodstream infections (CRBSI) in patients with central venous or arterial catheters. ▶ [See the letter](#)

Tegaderm™ CHG I.V. Securement Dressing is the only transparent dressing cleared and proven to reduce CRBSI.⁶

✓ CDC

The Centers for Disease Control and Prevention

For patients aged 18 years and older: Chlorhexidine-impregnated dressings with an FDA-cleared label that specifies a clinical indication for CRBSI or CABSII are recommended to protect the insertion site of short-term, non-tunneled CVCs. (*Category IA*)⁷ ▶ [View recommendations](#)

✓ APIC

Association for Professionals in Infection Control and Epidemiology

If applicable, chlorhexidine-impregnated sponge dressing or chlorhexidine-impregnated dressing can be used. (IB)

If a chlorhexidine-sponge dressing is used, [ensure] it is oriented correctly and changed at the same time as the transparent dressing.⁵

✓ INS

Infusion Nurses Society

Use chlorhexidine-impregnated dressings over CVADs to reduce infection risk when extraluminal route is primary source of infection. (Level I)

Assess the catheter-skin junction site and surrounding area for redness, tenderness, swelling, drainage by visual inspection and palpation through the intact dressing.⁸

✓ ONS

Oncology Nursing Society

Use a CHG-impregnated sponge dressing for all catheters, including specialty catheters in patients older than 2 months of age.

Following CHG skin preparation, it is recommended to use a CHG-impregnated dressing for any long-term infusion (defined as exceeding 4–6 hours) or if the port remains accessed for intermittent long-term infusions.⁹

✓ SHEA

Society for Healthcare Epidemiology of America

Use chlorhexidine-containing dressings for CVCs in patients over 2 months of age. (quality of evidence: I)¹⁰

6. U.S. Food and Drug Administration, Department of Health & Human Services. 3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing 510(k) K153410 approval letter, May 15, 2017. Retrieved June 18, 2020 from https://www.accessdata.fda.gov/cdrh_docs/pdf15/K153410.pdf.

7. Centers for Disease Control and Prevention (CDC): O'Grady NP, Alexander M, Burns LA, et al. Guidelines for the prevention of intravascular catheter-related infections. *Clin Infect Dis*. 2011;52(9):e162-e193.

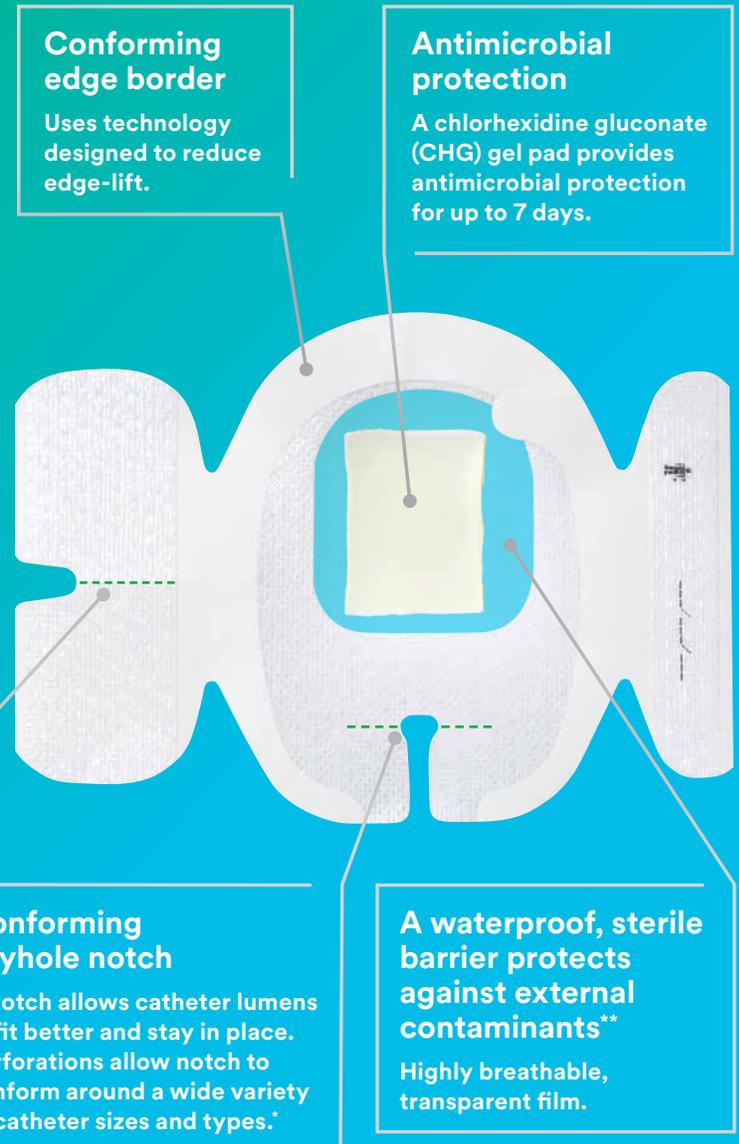
8. Infusion Nurses Society (INS): Gorski L, Hadaway L, Hagle ME, McGoldrick M, Orr M, Doellman D. Infusion Therapy Standards of Practice. *J Infus Nurs*. 2016;39(suppl 1):S1-S59.

9. Oncology Nursing Society. Access device standards of practice for oncology nursing. 2017. <https://www.ons.org/books/access-device-standards-practice-oncology-nursing>.

10. Marschall J, Mermel LA, Fakih M, et al. Strategies to Prevent Central Line-Associated Bloodstream Infections in Acute Care Hospitals: 2014 Update. *Infect Control Hosp Epidemiol*. 2014;35(7):753-771.

Backed by 35 years of IV care science and innovation.

Watch a video to learn more about the science behind the dressing



*Tegaderm™ CHG I.V. Securement Dressing 1657 only.

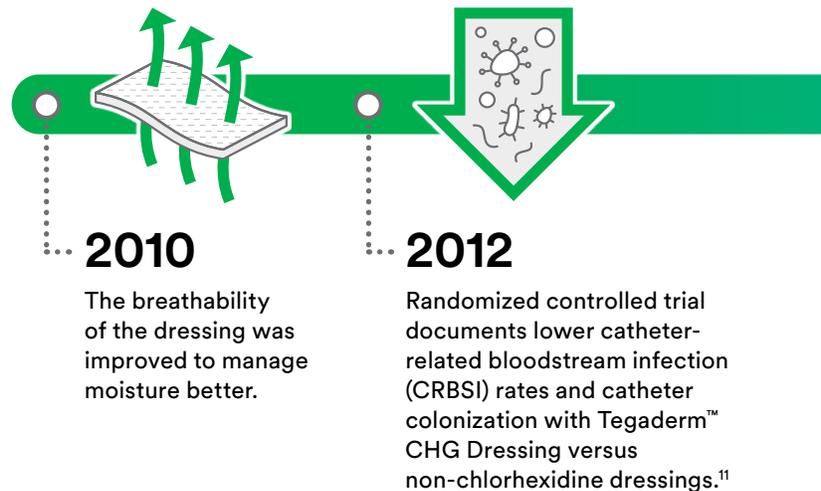
***In vitro* testing shows that the film provides a barrier against viruses 27 nm in diameter or larger while the dressing remains intact without leakage.

Continuous innovation inspired by you.

Over the last 10+ years, clinicians have come to rely on 3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressings.

Explore milestones that have helped transform patient care.

[View the full timeline](#)



11. Timsit JF, Mimoz O, Mourvillier B, et al. Randomized controlled trial of chlorhexidine dressing and highly adhesive dressing for preventing catheter-related infections in critically ill adults. *Am J Respir Crit Care Med.* 2012;186(12):1272-1278.

Infection Reduction

Cleared and clinically proven to reduce catheter-related bloodstream infections (CRBSI).

Meets standards and guidelines including CDC Guidelines recommendation for use of chlorhexidine-impregnated dressing with FDA indication to reduce CRBSI.



60% reduction of CRBSIs in a randomized controlled trial (RCT) of 1,879 subjects with 4,163 catheters.¹¹

Site Visibility

Transparent dressing and gel pad enable early identification of potential complications at IV site and meet Infusion Nurses Society (INS) recommendation to assess the IV site and surrounding area by visual inspection.⁸



Tegaderm™ CHG I.V. Securement Dressing



BIOPATCH® Disk with CHG



Catheter Securement

Designed to minimize catheter movement and dislodgement and meets the INS definition of an Engineered Stabilization Device (ESD).⁹



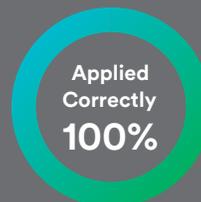
7.90 lb pull force

Tegaderm™ CHG I.V. Securement Dressing 1657 can withstand 7.90 lb pull force on average, which is an average 1.09 lb greater pull force vs. SorbaView® SHIELD + BIOPATCH® 7 days after application.¹²

Ease of Use

Integrated CHG gel pad and dressing design ensures standardized, correct application.¹³

Tegaderm™ CHG I.V. Securement Dressing



n=120

BIOPATCH® Disk with CHG



n=128



2016

Dressing was redesigned with:

- improved breathability for moisture management
- conforming keyhole notch to allow catheter lumens to fit better and stay in place
- securement tape strip with notch for consistent application and stabilization
- conforming edge border to reduce edge lift.



2017

Tegaderm™ CHG Dressing receives U.S. Food & Drug Administration (FDA) 510(k) clearance for expanded indication to reduce CRBSIs.⁶



2017

Tegaderm™ CHG Dressing is the only transparent dressing to meet new Centers for Disease Control and Prevention (CDC) recommendation for reducing CRBSIs (Category 1A).⁷



2019

11-year, real-world study shows sustained reduction of CRBSIs with CHG gel dressings.¹⁴

12. 3M data on file: EM-05-014359.

13. Kohan CA, Boyce JM. A Different Experience with Two Different Chlorhexidine Gluconate Dressings for Use on Central Venous Devices. *Am J Infect Control.* 2013;41(6):S142-S143.

14. Eggimann P, Pagani JL, Dupuis-Lozeron E, et al. Sustained reduction of catheter-associated bloodstream infections with enhancement of catheter bundle by chlorhexidine dressings over 11 years. *Intensive Care Med.* 2019;45:823-833.

The difference is clear.



VS



**3M™ Tegaderm™ CHG Chlorhexidine Gluconate
I.V. Securement Dressing**

**BIOPATCH® Disk
with CHG**

Efficacy	Tegaderm™ CHG Dressing	BIOPATCH® Disk with CHG
 <p>Superior skin flora kill rate Tegaderm™ CHG Dressing is proven to be more effective than BIOPATCH® Disk with CHG at each time point tested over the course of 10 days.¹⁵</p>		
 <p>Superior skin flora regrowth suppression at 7 days Tegaderm™ CHG Dressing is more effective at suppressing the regrowth of normal skin flora on prepped skin than BIOPATCH® Disk with CHG.¹⁶</p>		
 <p>Suture site protection Tegaderm™ CHG Dressing has been shown to reduce the number of microorganisms at the catheter insertion site, suture site, sutures and catheter surface.*¹⁷</p>		
Safety & Ease of Use	Tegaderm™ CHG Dressing	BIOPATCH® Disk with CHG
 <p>Allows for constant site monitoring The <i>2016 Infusion Therapy Standards of Practice</i> published by INS recommend assessing the VAD (Vascular Access Device)-skin junction site and surrounding area for redness, tenderness, swelling, and drainage by visual inspection and palpation through the intact dressing.⁸</p>		
 <p>Superior placement accuracy rate Multiple studies have shown an improved CHG placement accuracy rate with the integrated Tegaderm™ CHG Dressing compared to the placement of a BIOPATCH® Disk with CHG plus a dressing.^{13,18}</p>		
 <p>CHG gel pad is integral to a transparent dressing Since the CHG gel pad is integral to the Tegaderm™ CHG Dressing, it cannot be put on upside down or forgotten and eliminates the need for extra steps to apply CHG separately from the cover dressing.</p>		

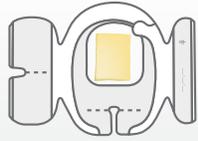
*Tegaderm CHG I.V. Securement Dressings are not indicated to reduce bacterial colonization of sutures or suture sites.

15. 3M Data on File: #09535.
16. Bashir MH, Olson LK, Walters SA. Suppression of regrowth of normal skin flora under chlorhexidine gluconate dressings applied to chlorhexidine gluconate-prepped skin. *Am J Infect Control*. 2012;40(4):344-348.

17. Karpanen TJ, Casey AL, Das I, Whitehouse T, Nightingale P, Elliott TSJ. Transparent film intravenous line dressing incorporating a chlorhexidine gluconate gel pad: A clinical staff evaluation. *J Assoc Vasc Access*. 2016;21(3):133-138.
18. Eyberg C, Pyrek J. A Controlled Randomized Prospective Comparative Pilot Study to Evaluate the Ease of Use of a Transparent Chlorhexidine Gel Dressing Versus A Chlorhexidine Disk in Healthy Volunteers. *J Vasc Access*. 2008;13(3):112-117.

The value is clear.

All-in-one design is cost effective and eliminates the need to manage, store and distribute multiple products. The integrated design also helps ensure compliance and streamlines education and training.

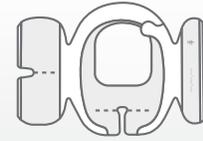


**3M™ Tegaderm™ CHG
Chlorhexidine Gluconate
I.V. Securement Dressing**

VS



**BIOPATCH® Disk
with CHG**

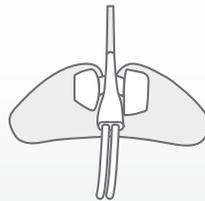


**3M™ Tegaderm™ I.V. Advanced
Securement Dressing**



**3M™ PICC/CVC Securement
System + 3M™ Tegaderm™ CHG
Chlorhexidine Gluconate
I.V. Securement Dressing**

VS



**Statlock® PICC Plus
Stabilization Device**



**BIOPATCH® Disk
with CHG**



**3M™ Tegaderm™
I.V. Advanced
Securement Dressing**

?

Your questions, answered.

1

Does the gel pad stick? Is it difficult to remove?

The CHG gel pad is designed to conform to the catheter, and the integrated transparent dressing allows for consistent application, site monitoring and catheter stabilization. A CHG sponge does not provide catheter stabilization, and must be used with an additional dressing. The CHG gel pad contains adhesive properties which is sometimes perceived as “sticky”. If needed, a few drops of saline or alcohol can be used to facilitate removal of the gel pad.

2

Does it provide 360 degree coverage?

The aqueous nature of the gel pad and CHG allows for immediate antimicrobial action upon application to skin. It has been shown to provide complete antimicrobial protection on and under a vascular catheter segment.¹⁹⁻²² Plus, it's been shown that Tegaderm™ CHG Dressing provides better antimicrobial protection compared to BIOPATCH® Disk with CHG.^{16,23}

3

Does the gel pad absorb fluid?

Tegaderm™ CHG Dressing absorbs blood, sweat and exudates (8x its weight in saline and 3x its weight in blood*) and still maintains antimicrobial effectiveness.

*As demonstrated *in vitro*

19. Schwab D, et al. Antimicrobial activity of a CHG impregnated gel pad for I.V. site protection. Poster presented at: the conference of Infusion Nursing Society; May, 2008.
20. Karpanen TJ, Casey AL, Whitehouse T, Nightingale P, Das I, Elliott TSJ. Clinical evaluation of a chlorhexidine intravascular catheter gel dressing on short-term central venous catheters. *Am J Infect Control.* 2016;44(1):54-60.
21. Karpanen TJ, Casey AL, Conway BR, Lambert PA, Elliott TSJ. Antimicrobial activity of a chlorhexidine intravascular catheter site gel dressing. *J Antimicrob Chemother.* 2011;66(8):1777-1784.

22. 3M Data on File: EM-05-002068.
23. Maki D, Stahl J, Jacobson C, Pyrek J. A novel integrated chlorhexidine impregnated transparent dressing for prevention of vascular catheter related bloodstream infection: A prospective comparative study in healthy volunteers. Poster presented at: the conference of The Society for Health Care Epidemiology of America; April, 2008.

The evidence is clear.

3M is proud to have a robust body of evidence supporting
3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing.



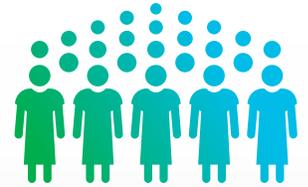
22

Studies to date including meta-analysis, randomized controlled trials, peer-reviewed studies and posters



Over
45%

published within the last five years (2015–2020)



Over
30,000
patients studied

Catheter Types Studied

- ✓ CVC (long-term & short-term)
- ✓ Arterial
- ✓ External ventricular drain
- ✓ Dialysis
- ✓ Epidural

Topics Covered



Infection Reduction

Measurable decrease in catheter-related bloodstream infection (CRBSI) rate.



Ease of Use

Product usability and clinician preference.



Antimicrobial Protection

Microbial colonization and *in vitro* zone of inhibition.*



Health Economics

Cost savings and overall economic impact.

*No clinical correlation intended.



CLINICAL EVIDENCE SUMMARY

▶ [View full clinical evidence summary](#)

Featured Studies

Randomized controlled trial of chlorhexidine dressing and highly adhesive dressing for preventing catheter-related infections in critically ill adults

Timsit JF, Mimoz O, Mourvillier B, et al. *Am J Respir Crit Care Med.* 2012;186(12):1272-1278.

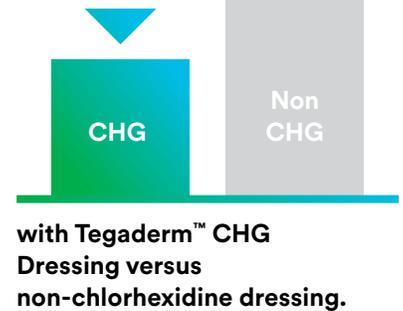
Results:

A multi-center randomized controlled trial in 12 French ICUs, with a total of 1,879 patients evaluated, compared chlorhexidine to non-chlorhexidine dressings and determined the Tegaderm™ CHG Dressing decreases catheter colonization and CRBSI rates in CVC and arterial catheters.

View study:

<https://www.atsjournals.org/doi/full/10.1164/rccm.201206-1038OC>

CRBSI rate was
60% lower



Suppression of regrowth of normal skin flora under chlorhexidine gluconate dressings applied to chlorhexidine gluconate-prepped skin

Bashir MH, Olson LK, Walters SA. *Am J Infect Control.* 2012;40:344-348.

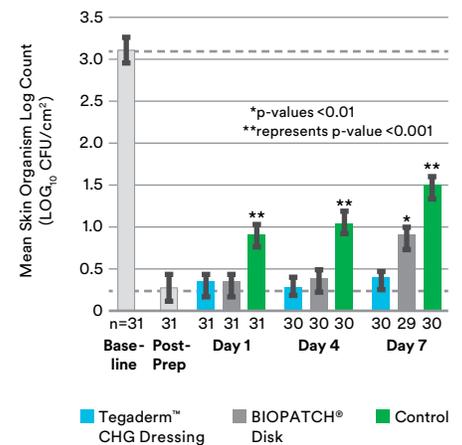
Results:

Randomized controlled trial on the backs of 30 healthy subjects compared suppression of microbe regrowth on CHG-prepped skin between control, CHG gel dressings and CHG disks. CHG dressings helped reduce the bacterial count on the skin. CHG gel maintained organism suppression to a greater extent than the CHG disk at 7 days.

View study:

[https://www.ajicjournal.org/article/S0196-6553\(11\)00319-1/fulltext](https://www.ajicjournal.org/article/S0196-6553(11)00319-1/fulltext)

Maintains lower skin organism counts than BIOPATCH® Disk



Sustained reduction of catheter-associated bloodstream infections with enhancement of catheter bundle by chlorhexidine dressings over 11 years

Eggimann P, Pagani JL, Dupuis-Lozeron E, et al. *Intensive Care Med.* 2019;45:823-833.

Results:

Real-world data study of 18,286 patients from 2006 to 2014 at a 35-bed mixed adult ICU evaluated the impact of incrementally introducing CHG dressings (sponge or gel) to an ongoing catheter bundle. The incidence density showed a progressive but significant decrease of CRBSI rates when CHG sponge and CHG gel dressings were used. Data indicates the skin reaction rates for CHG gel and CHG sponge were equivalent at 0.3 /1,000 device days.

View study:

<https://link.springer.com/article/10.1007%2Fs00134-019-05617-x>



Chlorhexidine dressings were associated with
a sustained 11-year reduction of CRBSIs.

All lines. All the time.

Use the entire family of antimicrobial CHG Tegaderm™ Dressings to help reduce risks across extraluminal access points.



Subclavian



Jugular



Large Bore/Dialysis



PICC



Peripheral



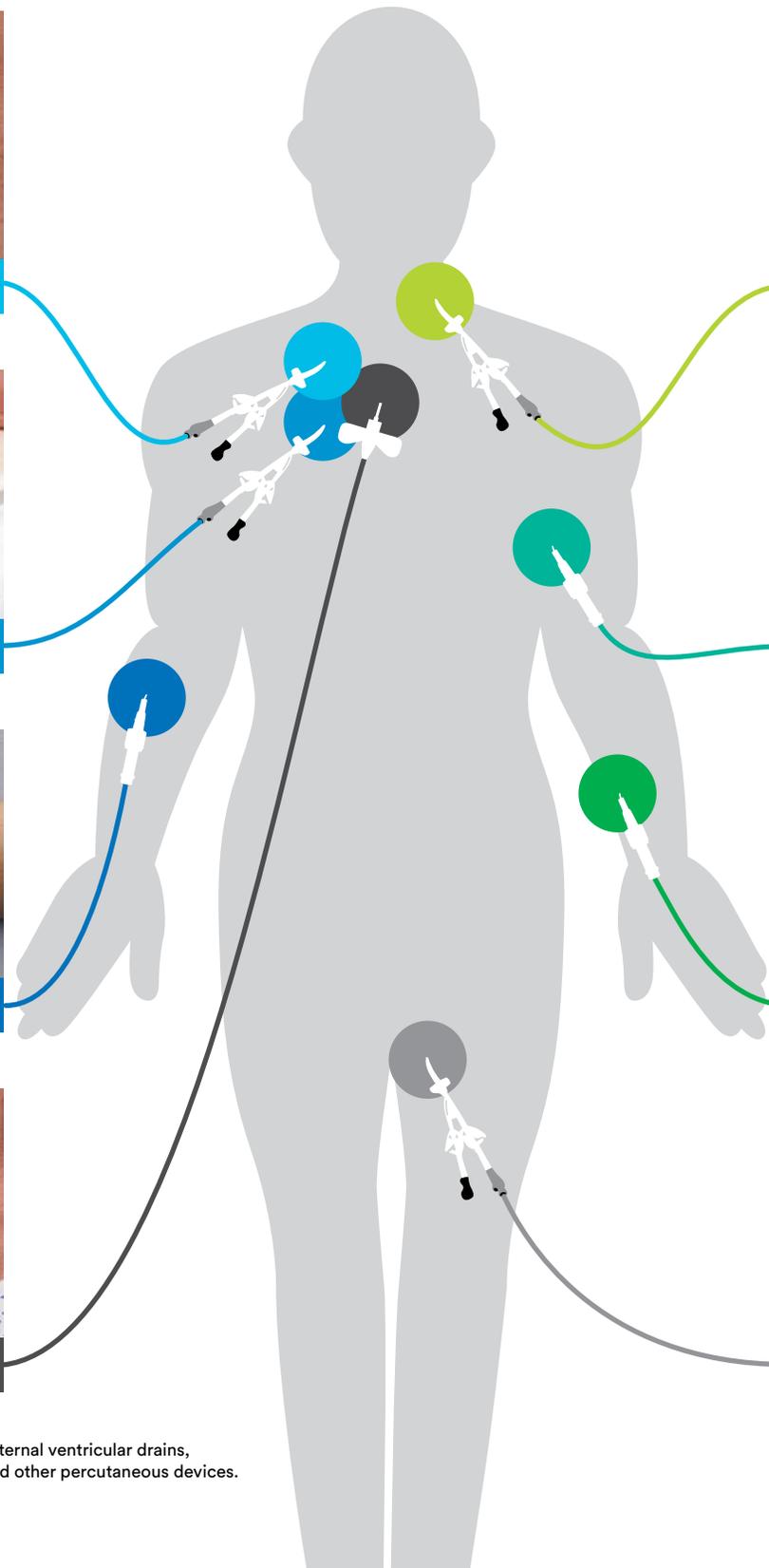
Arterial



Port

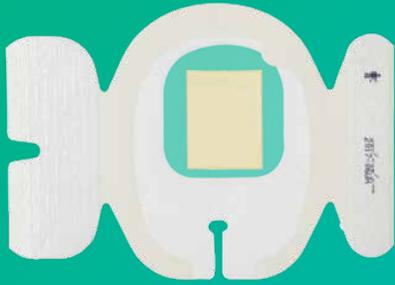


Femoral



Additional applications: Midlines, external ventricular drains, ECMO, bone pins, surgical drains and other percutaneous devices.

The choice is clear.



3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing

Integrated all-in-one design ensures consistent application, aligning with evidence-based guidelines and practice standards.

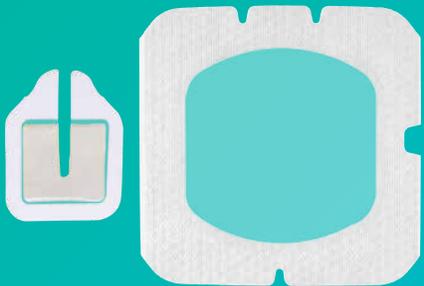
Available in 4 sizes.



3M™ PICC/CVC Securement Device + 3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing

An engineered stabilization device (ESD) plus antimicrobial (CHG) dressing designed to secure IVs quickly and effectively – without sutures.

Available in 2 sizes.



3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Port Dressing

Antimicrobial (CHG) gel pad plus I.V. port dressing specifically designed to protect single or double implanted venous ports and non-coring needles.

Available in 1 size.



3M™ Tegaderm™ CHG Chlorhexidine Gluconate Gel Pad

Engineered for versatility and antimicrobial protection, features an easy to use design to protect insertion sites and conform around a wide variety of percutaneous devices.

Available in 1 size.



3M™ Tegaderm™ Antimicrobial I.V. Advanced Securement Dressing

Integrated design with CHG formulated into the dressing adhesive combines antimicrobial protection with site visibility, catheter securement and consistent application for peripheral IVs.

Available in 1 size.



Peak™
Clinical Outcomes Program

**Dedicated expertise.
Customized plans.
Ongoing support.**

Every IV site presents the potential for infection, dislodgement, skin damage and other complications. That's why we offer the 3M™ Peak™ Clinical Outcomes Program, a collaborative approach to successfully implementing and sustaining your clinical outcomes.

How the Peak Program works:



Identify

Identify the areas where you have the biggest opportunity to drive impact at your facility.



Improve

Improve or implement new work processes and protocols through a variety of tools and approaches.



Learn

Learn about industry best practices, clinical evidence, and new ways to improve outcomes.



Maintain

Maintain the progress you've made and continue to keep staff educated and engaged.

Get started today at [3M.com/Peak](https://www.3m.com/Peak) or connect with your 3M Account Manager to request an audit.

Product	Product Number	CHG Gel Pad Size	Dressing Size	Suggested Devices
3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing				
	1657	1 3/16 in x 1 1/2 in 3 cm x 4 cm	3 1/2 in x 4 1/2 in 8,5 cm x 11,5 cm	All CVCs, Arterial, Dialysis, Midline and other percutaneous devices
	1658	1 1/2 in x 1 3/16 in 4 cm x 3 cm	4 in x 4 3/4 in 10 cm x 12 cm	Universal, other percutaneous devices
	1659	1 3/16 in x 2 3/4 in 3 cm x 7 cm	4 in x 6 1/8 in 10 cm x 15,5 cm	All CVCs and PICCs
	1660	4/5 in x 4/5 in 2 cm x 2 cm	2 3/4 in x 3 3/8 in 7 cm x 8,5 cm	PIVs, Midline, Arterial, CVCs and other percutaneous devices
3M™ PICC/CVC Securement Device + Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressing				
	1877-2100	1 1/2 in x 1 3/8 in 3 cm x 4 cm	3 1/2 in x 4 1/2 in 8,5 cm x 11,5 cm	PICCs, CVCs and other vascular access devices
	1879-2100	1 1/2 in x 2 4/5 in 3 cm x 7 cm	4 in x 6 1/8 in 10 cm x 15,5 cm	PICCs, CVCs and other vascular access devices
3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Port Dressing				
	1665	1 3/16 in x 1 3/16 in, 3 cm x 3 cm	4 3/4 in x 4 3/4 in 12 cm x 12 cm	Implanted Venous Ports
3M™ Tegaderm™ CHG Chlorhexidine Gluconate Gel Pad				
	1664	1 3/16 in x 1 3/16 in, 3 cm x 3 cm	2 7/16 in x 1 15/16 in 6,2 cm x 4,9 cm	Other Percutaneous Devices (Implanted ports, large bore catheters, surgical drains, bone pins)
3M™ Tegaderm™ Antimicrobial I.V. Advanced Securement Dressing				
	9132	-	3 3/8 in x 2 3/4 in 8,5 cm x 7 cm	PIVs

Visit [3M.com/TegadermCHG](https://www.3m.com/TegadermCHG) to learn more.

Important Safety Information for 3M™ Tegaderm™ CHG Chlorhexidine Gluconate I.V. Securement Dressings and 3M™ Tegaderm™ CHG Chlorhexidine Gluconate Gel Pad. Do not use Tegaderm™ CHG I.V. Securement Dressings or Tegaderm™ CHG Gel Pad on premature infants or infants younger than two months of age. Use of these products on premature infants may result in hypersensitivity reactions or necrosis of the skin. The safety and effectiveness of Tegaderm™ CHG I.V. Securement Dressings and Tegaderm™ CHG Gel Pad has not been established in children under 18 years of age. For full prescribing information, see the Instructions for Use (IFU). Rx Only.



Medical Solutions Division
3M Company
2510 Conway Avenue
St. Paul, MN 55144 USA

Phone 1-800-228-3957
Web [3M.com/Medical](https://www.3m.com/Medical)



MADE IN THE USA
with globally sourced materials

3M, Peak, and Tegaderm are marks and/or registered marks of 3M. Unauthorized use prohibited. Used under license in Canada. BIOPATCH is a registered trademark of ETHICON, INC. SorbaView is a registered trademark of Centurion Medical Products Corporation. Statlock is a registered trademark of Becton, Dickinson and Company. Please recycle. Printed in U.S.A. © 3M 2011, 2017, 2019, 2020. All rights reserved. 70-2009-9596-0