3M Science. Applied to Life.™

Securement without Sacrifice

3M™ Tegaderm™ PICC/CVC Securement Systems

Reliable securement without sacrificing patient comfort

Reliable securement of Peripherally Inserted Central Catheters (PICCs) and Central Venous Catheters (CVCs) is critical in avoiding the clinical, emotional and financial costs of complications.

Traditional securement devices can be difficult and painful to apply and remove, whilst sutures can be uncomfortable for patients, may cause an inflammatory response and may increase the risk of infection. Needlestick injuries (NSIs) from suturing can lead to a significant burden on hospitals and clinicians.

Building on over 35 years of experience collaborating with clinicians to simplify and improve I.V. site care, 3M™ designed a securement system that provides reliable securement without sacrificing patient comfort.[5]

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

3M™ Tegaderm™ PICC/CVC Securement Device + I.V. Advanced Dressing

Convenient 'all-in-one' device + dressing system

- Integral dressing supports compliance with protocol
- Fewer products to purchase and stock, simplifies product selection
- Integrated antimicrobial CHG gel pad available as required*
- Will secure single, double, and triple-lumen catheters, up to and including 12 French

Ease of application & removal

- Simple and intuitive design
- No mechanical doors or sticky residue
- No alcohol required to remove device
- Easier to apply and remove than leading securement devices[1]

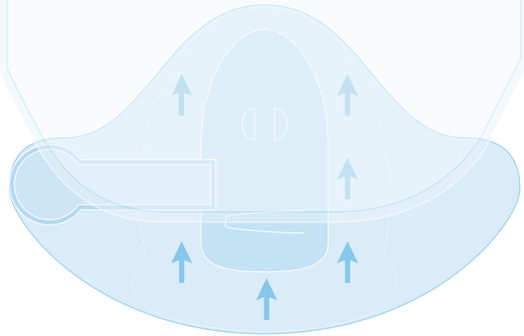
Reliable adhesion with gentleness to skin

- Secures as well as, or better than, leading securement devices[1] and sutures
- Designed to be worn for up to 7 days
- Removes gently, without causing patients undue pain or distress[5]
- As comfortable as, or more comfortable than, leading securement devices[2] and sutures

Proven antimicrobial protection (with CHG dressing)*

- Proven to reduce CRBSIs in patients with central venous and arterial catheters by 60%[3]
- Gel pad is adhesive and conforms around catheter and hub
- Continuous antimicrobial activity: reducing skin flora and preventing its re-growth up to 7 days[4]

Both the Tegaderm™ I.V. Advanced Dressing (top) and Tegaderm™ CHG Dressing (bottom) ensure continuous visibility of the insertion site.



The 3M™ Tegaderm™ PICC/CVC Securement Systems include:

- A securement device with silicone adhesive that balances secure adhesion with gentleness to skin
- An I.V. securement dressing specifically designed to enhance securement of the device.

* Systems available with either the Tegaderm™ I.V. Advanced Securement Dressing or Tegaderm™ CHG Dressing.

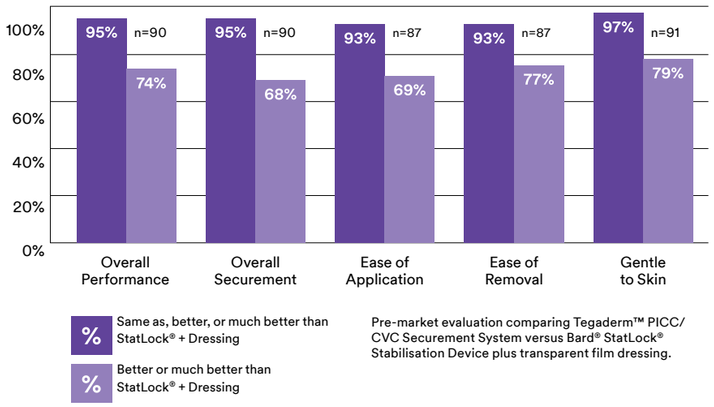
Proven to provide reliable PICC/CVC securement

Over 85% of clinicians were willing to replace their existing securement system with the Tegaderm™ PICC/CVC Securement System.[2]

Peripherally Inserted Central Catheters (PICCs)

The Tegaderm™ PICC/CVC Securement Systems were designed to minimise catheter migration or dislodgement complications. In a pre-market evaluation, clinicians rated the Tegaderm™ PICC/CVC Securement System as providing better overall PICC securement than the Bard® StatLock® Stabilisation Device and transparent film dressing. The Tegaderm™ PICC/CVC Securement System was also rated to be easier to apply and remove and gentler to skin than StatLock.® In fact, 85% of the clinicians indicated they would be willing to replace their existing PICC securement system with the Tegaderm™ PICC/CVC Securement System (n=140).[1]

Clinician feedback during market evaluation for PICCs[1]



Pre-market evaluation comparing Tegaderm™ PICC/CVC Securement System versus Bard® StatLock® Stabilisation Device plus transparent film dressing.

In a simulated clinical situation, the Tegaderm™ PICC/CVC Securement System could withstand the sudden, high pull force of dropping an attached 1.13kg weight (equivalent to a standard bag of saline solution) 100% of the time, while the StatLock® PICC Plus with a Tegaderm™ I.V. Film Dressing with Border (1655) failed every time.[5]

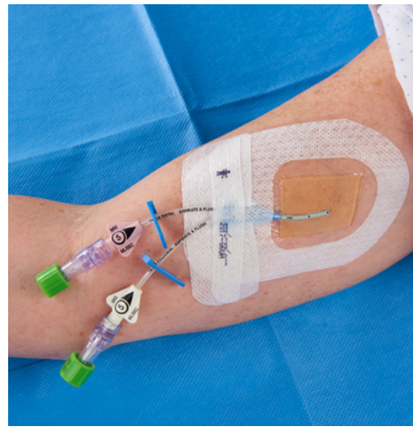
Simulated clinical situation drop test[5]

Securement Method	Results
StatLock® PICC Plus-Foam (VPPCSP) + Tegaderm™ I.V. Dressing (1655)	Pass: 0% (0 out of 24)
Tegaderm™ PICC/CVC Securement Device + I.V. Advanced Dressing	Pass: 100% (24 out of 24)

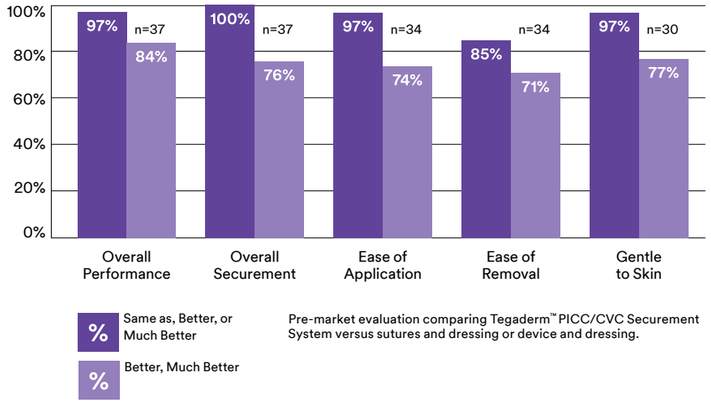
Tegaderm™ PICC/CVC Securement System could withstand a sudden, high pull force of an attached 1.13kg weight being dropped 24 out of 24 times.

Central Venous Catheters (CVCs)

In a pre-market evaluation, clinicians rated the Tegaderm™ PICC/CVC Securement System as providing better overall securement than sutures and a dressing or a securement device and dressing. The Tegaderm™ PICC/CVC Securement System was also rated higher in preventing migration, ease of application and gentleness to skin. In fact, 90% of the clinicians indicated they would be willing to replace their existing CVC securement system with the Tegaderm™ PICC/CVC Securement System (n=140).[1]



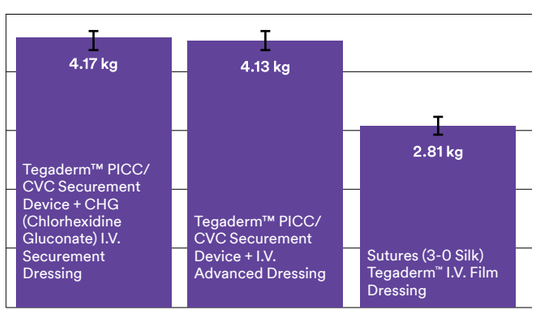
Clinician feedback during pre-market evaluation for CVCs[1]



Pre-market evaluation comparing Tegaderm™ PICC/CVC Securement System versus sutures and dressing or device and dressing.

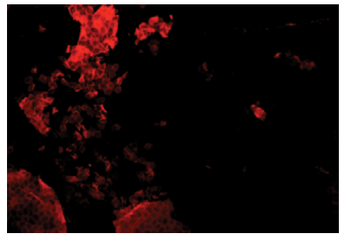
In vivo testing comparing the mean pull force required to dislodge an inserted CVC catheter with various securement devices, showed the Tegaderm™ PICC/CVC Securement System could withstand significantly higher pull force than sutures.

Mean pull force required to dislodge inserted CVC catheter[6]

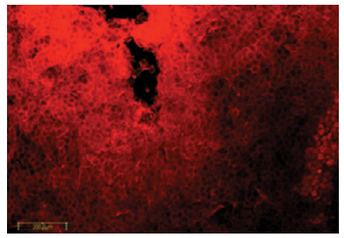


Tegaderm™ PICC/CVC Securement Systems require 1.5 times more pull force than sutures (3-0 silk) plus Tegaderm™ I.V. Film Dressing with Border (1655).

Designed with clinicians and patients in mind



Tegaderm™ PICC/CVC Securement Device



Bard® StatLock® Tricot Stabilisation Device

Fewer skin cells are removed when removing the Tegaderm™ PICC/CVC Securement Device than the Bard® StatLock® Tricot Stabilisation Device, showing that it is more gentle to patients' skin.[5]

Gentle on skin for improved comfort

The device removes cleanly, eliminating the need to use alcohol. Removal of other securement devices can cause adhesive trauma, stripping skin cells along with the device. Significantly fewer skin cells are removed when removing the Tegaderm™ PICC/CVC Securement Device than the Bard® StatLock® Tricot Stabilisation Device, showing that it is more gentle to skin.[5]

Easy to apply and remove

The Tegaderm™ PICC/CVC Securement Systems were designed for easier application and removal. An evaluation comparing the Tegaderm™ PICC/CVC Securement System to the Bard® StatLock® Stabilisation Device for Peripherally Inserted Central Catheters (PICCs), showed the Tegaderm™ PICC/CVC Securement System to:

- Be easier to apply and remove[1]
- Be easier to remove without catheter movement[1]
- Leave minimal to no adhesive residue on skin upon removal[1]
- Be repositionable upon initial application without losing adhesion[9]

Reduces the risks of suture-related needlestick injuries

The Tegaderm™ PICC/CVC Securement Systems are an ideal alternative to sutures, helping to eliminate the unnecessary financial, physical and emotional costs of suture-related needlestick injuries (NSIs).

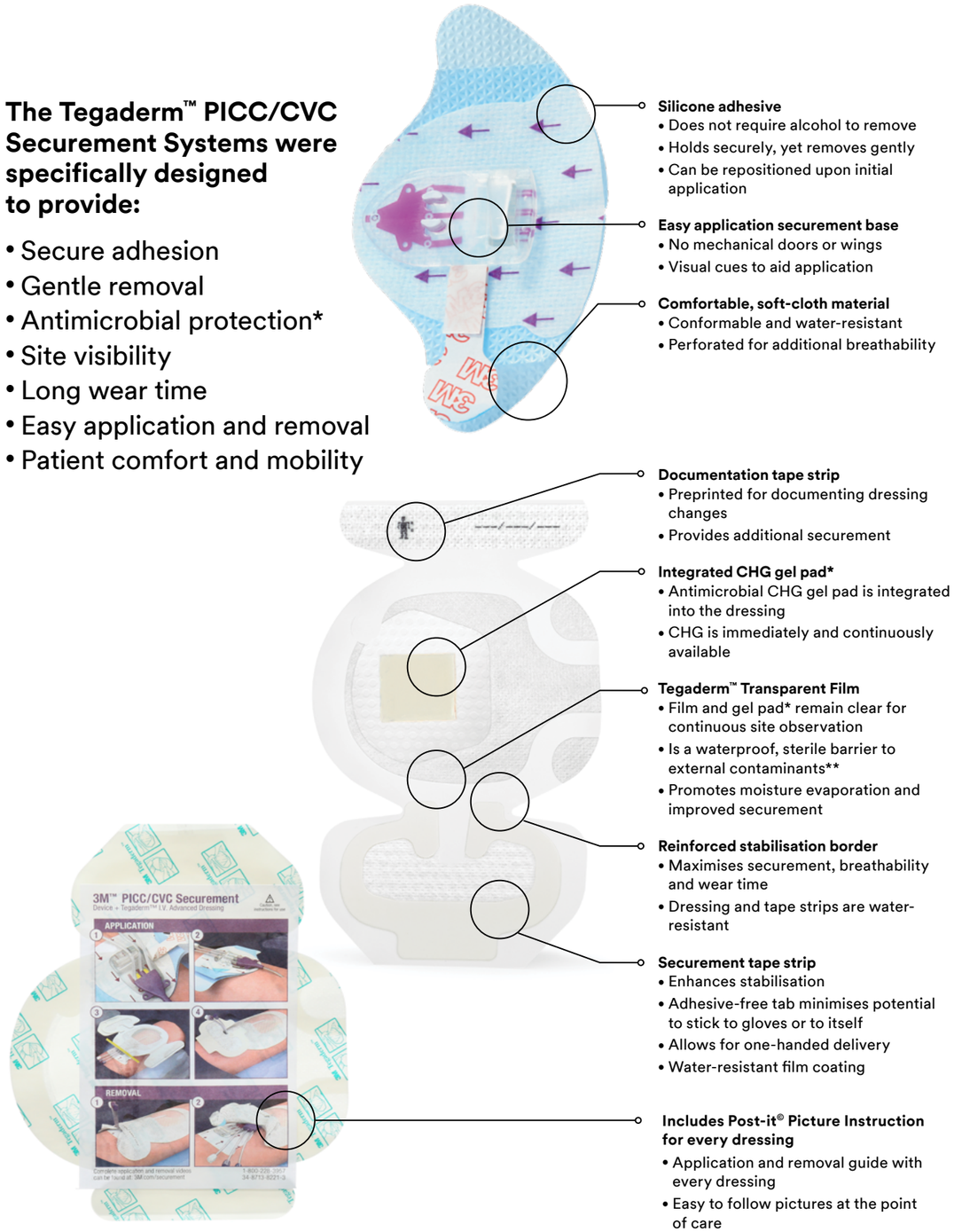
85% of clinicians were willing to replace their existing securement system with the 3M™ Tegaderm™ PICC/CVC Securement Systems.[1]

A sutureless securement device eliminates the risk of suture related needlestick injury during securing of a catheter.[8]

— Alvin J. Yamamoto

The Tegaderm™ PICC/CVC Securement Systems were specifically designed to provide:

- Secure adhesion
- Gentle removal
- Antimicrobial protection*
- Site visibility
- Long wear time
- Easy application and removal
- Patient comfort and mobility



Silicone adhesive
- Does not require alcohol to remove
- Holds securely, yet removes gently
- Can be repositioned upon initial application

Easy application securement base
- No mechanical doors or wings
- Visual cues to aid application

Comfortable, soft-cloth material
- Conformable and water-resistant
- Perforated for additional breathability

Documentation tape strip
- Preprinted for documenting dressing changes
- Provides additional securement

Integrated CHG gel pad*
- Antimicrobial CHG gel pad is integrated into the dressing
- CHG is immediately and continuously available

Tegaderm™ Transparent Film
- Film and gel pad* remain clear for continuous site observation
- Is a waterproof, sterile barrier to external contaminants**
- Promotes moisture evaporation and improved securement

Reinforced stabilisation border
- Maximises securement, breathability and wear time
- Dressing and tape strips are water-resistant

Securement tape strip
- Enhances stabilisation
- Adhesive-free tab minimises potential to stick to gloves or to itself
- Allows for one-handed delivery
- Water-resistant film coating

Includes Post-it® Picture Instruction for every dressing
- Application and removal guide with every dressing
- Easy to follow pictures at the point of care

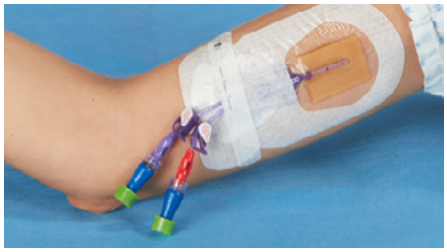
* Antimicrobial protection available with Tegaderm™ PICC/CVC Securement Device + CHG (Chlorhexidine Gluconate) I.V. Securement Dressing.

** *In vitro* testing shows that the transparent film of Tegaderm™ I.V. Securement Dressings provide a viral barrier for viruses 27nm in diameter or larger while the dressing remains intact without leakage.

Accommodates the majority of PICC and CVC catheters

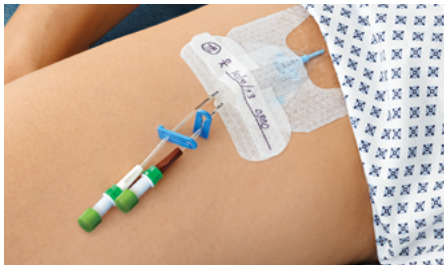
The Tegaderm™ PICC/CVC Securement Systems accommodate the majority of single, double or triple-lumen Peripherally Inserted Central Catheters (PICCs) and short-term Central Venous Catheters (CVCs) up to, and including, 12 French.

Subclavian



PICC

Jugular



Femoral

Ordering Information

	Product Code	Overall Device Size	Overall Dressing Size	Device + Dressing/Box	Boxes/Case
Tegaderm™ PICC/CVC Securement Device + I.V. Advanced Dressing	1837-2100	5.1 cm x 5.4 cm	8.5 cm x 11.5 cm	20	4
	1839-2100	5.1 cm x 5.4 cm	10 cm x 15.5 cm	20	4
Tegaderm™ PICC/CVC Securement Device + CHG (Chlorhexidine Gluconate) I.V. Securement Dressing	1877R-2100	5.1 cm x 5.4 cm	8.5 cm x 11.5 cm	20	4
	1879R-2100	5.1 cm x 5.4 cm	10 cm x 15.5 cm	20	4

Contact your local 3M representative for more information or call the 3M Health Care Customer Helpline on 1300 363 878 (Australia) or 0800 80 81 82 (New Zealand).

References

1. 3M Data on file (CUST-CVE-05-182381).
2. 3M Data on file (#12858).
3. Timsit JF. Randomised 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 Dec 15;186(12):1272-8. doi: 10.1164/rccm.201206-1038OC. Epub 2012 Oct 4.
4. Maki DG. A Novel Integrated Chlorhexidine-Impregnated Transparent Dressing for Prevention of Vascular Catheter-related Bloodstream Infection: A Prospective Comparative Study in Healthy Volunteers. SHEA, April 2008.
5. 3M Data on file (EM-05-012957).
6. Rutledge LF, DeCabooter DP, Walters SA, Bernatchez SF. Catheter securement systems: comparison of two investigational devices to a sutureless securement device, a securement dressing, and sutures in a pig model. *Intensive Care Med Exp.* 2015; 3: 24.
7. Health and Safety (Sharp Instruments in Healthcare) Regulations 2013 Guidance for employers and employees, Health and Safety Executive HSIS7 03/13.
8. Alvin J. Yamamoto, et al, Sutureless Securement Device Reduces Complications of Peripherally Inserted Central Venous Catheters. *Journal of Vascular and Interventional Radiology*, Vol 10, Number 1, Jan 2002.
9. 3M Data on file (EM-05-012862).

3M Australia Pty Limited
ABN 90 00 100 096
Building A, 1 Rivett Road North
Ryde NWS 2113
Ph: 1300 363 878
www.3M.com.au/medical

3M New Zealand Limited
94 Apollo Drive
Rosedale
Auckland 0623
Phone: 0800 80 81 82
www.3M.com.nz/medical