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

Take a new look at I.V. site protection

The first antimicrobial Tegaderm I.V. dressing

3M

Central Venous Access Device (CVADS): An Access Point for Microorganisms

The cost of catheter-related bloodstream infections (CR-BSI) is substantial in terms of morbidity, mortality and financial resources.

A major concern for infection prevention is to reduce the risks of infection associated with intravascular devices. Approximately 40% of bloodstream infections are associated with invasive devices and two thirds of these are due to intravenous devices such as peripheral and central line catheters[1]. The microorganisms that colonise catheter hubs and the skin adjacent to the insertion site are the source of most CR-BSIs. Bloodstream infections associated with the insertion and maintenance of central venous access devices (CVAD) are among the most dangerous complications of healthcare that can occur, worsening the severity of the patient's underlying ill health, prolonging the period of hospitalisation and increasing the cost of care.

According to the EPIC 2 Guidelines[2]:

Approximately 3 in every 1000 patients admitted to hospital in the UK acquires a bloodstream infection, and nearly one third of these infections are related to central venous access devices.

Chlorhexidine Gluconate (CHG)

In use for over 50 years, CHG has proven to be an effective antimicrobial.

CHG is a well-known antiseptic agent with broad spectrum antibacterial and antifungal activity and proven effectiveness against a range of pathogens including staphylococcus aureus.

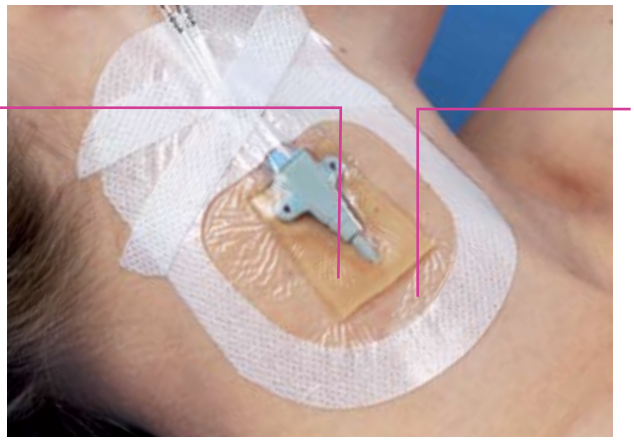
CHG is only minimally affected by the presence of organic matter, including blood, making it a powerful antiseptic for insertion sites[3].

Intelligent Infection Prevention at I.V. Sites

For more than 30 years, 3M has been at the forefront of new solutions for infection prevention. With the new innovative 3M™ Tegaderm™ CHG Dressing, 3M expands the product portfolio and offers a new look at I.V. site protection.

The innovative transparent CHG Gel Pad

- 2% CHG has been dissolved into a soft gel pad to provide a reservoir for consistent and continuous antimicrobial action over time.
- The gel pad is active on contact without requiring additional moisture.
- The CHG migrates under the catheter to provide continuous circumferential antimicrobial protection at the insertion site[4].
- It is soft and comfortable, moulding around the catheter and hub.



The trusted 3M™ Tegaderm™ Transparent Film Dressing

- Latex-free adhesive securely holds catheters in place and is gentle to the skin.
- Waterproof and breathable barrier to external contaminations including liquids, bacteria and yeast*.
- Minimises application error with easy to use frame and innovative shape.

* Laboratory testing has proven that the intact film provides a barrier against HIV-1 and HBV whilst the dressing remains intact without leakage.

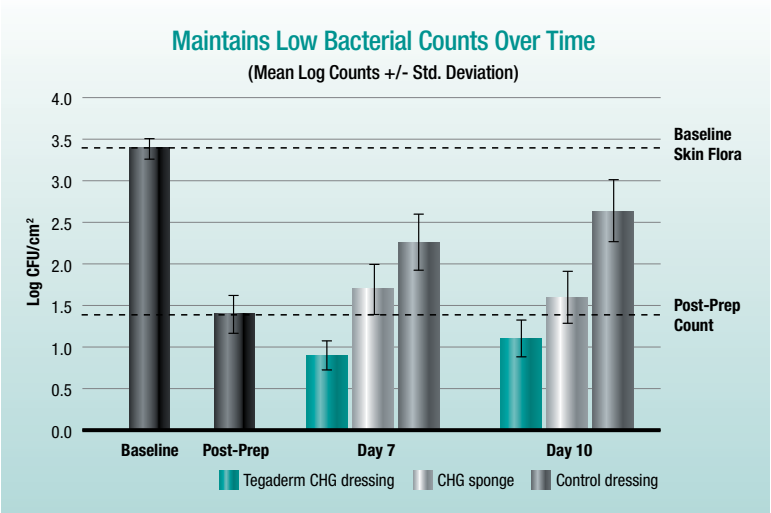
3M™ Tegaderm™ CHG Dressing integrates the powerful antimicrobial activity of Chlorhexidine Gluconate with the high performance of a Tegaderm film dressing. It has been specifically developed to reduce skin colonisation which is the most common source of Catheter-Related Bloodstream Infections.

• Antimicrobial action

The innovative CHG gel pad provides powerful and continuous antimicrobial action directly at the insertion site to reduce skin colonisation and suppress skin flora regrowth.

The effectiveness of Tegaderm CHG dressing was demonstrated in a randomised controlled trial with healthy volunteers[5].

Proven more effective at preventing regrowth of skin flora on healthy subjects at Day 7 than the CHG sponge and control dressing.
N=32 Healthy subjects
Skin prep=70% isopropyl alcohol



• Transparent

The CHG gel pad and the Tegaderm dressing are transparent and allow permanent visual inspection of the I.V. site without having to change the dressing.

• Efficacy - continuous activity for up to 10 days

Proven on skin flora of healthy volunteers to reduce skin colonisation under the dressing and prevent re-growth for 10 days.

• Absorbent

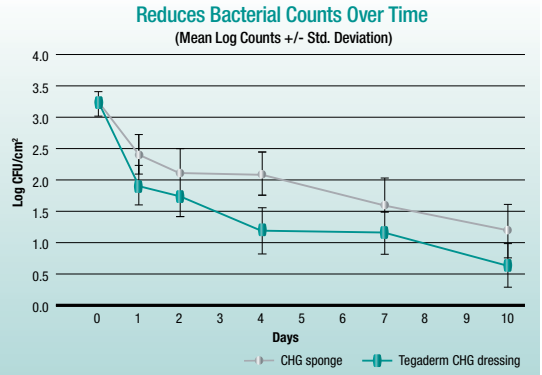
The CHG gel pad can absorb up to 8 times its weight in saline and 3 times its weight in blood[6], without loss of antimicrobial activity or loss of visibility of the insertion site.

3M™ Tegaderm™ CHG Dressing with innovative gel pad

Provides a reservoir for consistent and continuous antimicrobial action over time.

Reduces skin flora

An in vivo time-kill study compared CHG dressings on the unprepped skin of healthy subjects. The unprepped skin provided high levels of mixed bacterial populations. Tegaderm CHG dressing demonstrated that it is highly effective at reducing skin flora for up to 10 days and was also better than the CHG sponge for progressive kill of microflora across all time points[5].



Proven more effective than CHG sponge at reducing skin flora on healthy volunteers for up to 10 days.

N=29 Healthy subjects

Unprepped skin

The Benefits of a Trusted Tegaderm dressing

For over 25 years the Tegaderm range has been a tried and trusted brand.

The specific characteristics of Tegaderm products provide clinicians with outstanding advantages in catheter securement and infection prevention of I.V. Sites:

- The semi-permeable polyurethane film permits vapour and oxygen exchange and provides a barrier to external contaminants including liquids, bacteria and yeast
- The latex-free adhesive ensures the right balance between securely holding catheters in place and being gentle to the skin
- The transparent dressing enables continuous visual inspection of the catheter site
- The intuitive design allows hassle-free application and minimises the opportunity for error

Ordering information

Product Number	1657R	1659R
Product Size	8.5 cm x 11.5 cm	10 cm x 15.5 cm
Gel Pad Size	3 cm x 4 cm	3 cm x 7 cm
Suggested Devices	All CVCs Arterial, Dialysis, Midline	All CVCs PICC
NHS Order Code	ELW294	ELW295

For more information about the entire range of Tegaderm I.V. dressings please contact your local 3M representative or email us at:

tegadermchguk@mmm.com

The safety and effectiveness of Tegaderm CHG dressings have not been evaluated in children under 18 years of age. Do not use Tegaderm CHG dressings on premature infants.

References:

1. National Audit Office: Reducing Healthcare Associated Infections in Hospitals in England, June 2009.
2. Pratt RJ et al; Developing National Evidence-based Guidelines for Preventing Healthcare Associated Infection. Journal of Hospital Infections 2001; 47 (supplement) S1-S8.
3. Gelinas P, Goulet; Neutralization of the activity of eight disinfectants by organic matter. Journal of Applied Bacteriology 1983;54(2):243-7.
4. Schwab D; Migration of Chlorhexidine Gluconate Under Antimicrobial Gel Pad of IV Securement Dressing to Provide Continuous Antimicrobial Protection. AVA Annual Conference 2008.
5. Maki DG et al; A Novel Integrated Chlorhexidine-impregnated Transparent Dressing for Prevention of Vascular Catheter-related Infection: A Prospective Comparative Study in Healthy Volunteers. SHEA Annual Scientific Meeting 2008 (Poster).
6. 3M Data on File.

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