

Clean, clear comfort you can see

BD ChloraShield™ IV Dressing with Chlorhexidine Gluconate (CHG) Antimicrobial

BeneHold™ CHG adhesive technology by VANCIVE™ MEDICAL TECHNOLOGIES

BD

35%–50% of hospitalized patients receiving a peripheral IV catheter (PIVC) experience failure due to some form of complication[1]

Common PIVC-related complications that can result in PIVC failure include[1]:



Phlebitis | Extravasation | Occlusion | Dislodgement | Infection

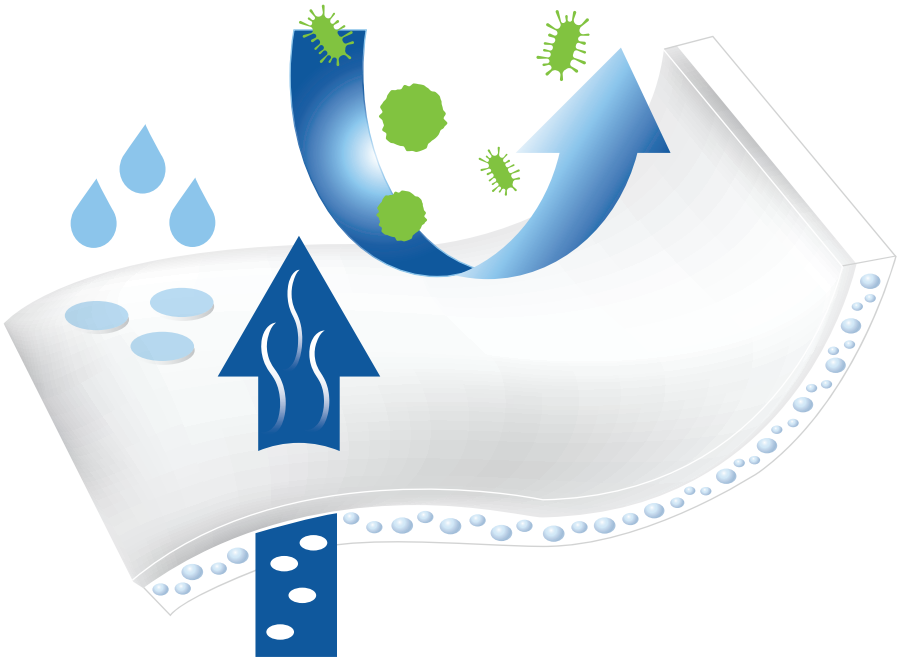
Catheter-related bloodstream infection has been estimated to increase length of hospital stay by 7 to 20 days and increase costs per patient by up to $56,000.[1]

The *Infusion Therapy Standards of Practice* recommend the following measures to protect vascular access devices (VADs)[2]:

- "Use chlorhexidine-impregnated dressings over CVADs (central venous access devices) to reduce infection risk…."
- "Assess the VAD catheter-skin junction site and surrounding area for redness, tenderness, swelling, and drainage by visual inspection and palpation through the intact dressing…."

Improve your standard of care

BD ChloraShield™ IV Dressings comply with *Infusion Therapy Standards of Practice.*



Dressing technology wicks away moisture and other fluids and acts as a waterproof and bacterial barrier.*

Transparent material enables visual inspection.

BeneHold™ adhesive technology formulated with CHG provides sustained antimicrobial activity against skin flora for up to 7 days.

BD ChloraShield™ IV Dressings come in a variety of sizes and configurations that support a wide range of IV applications.



3.0 in. x 2.4 in. (*75 mm x 60 mm*)

3.0 in. x 2.4 in. (*75 mm x 60 mm*)

3.3 in. x 2.4 in. (*83 mm x 60 mm*)

4.0 in. x 4.3 in. (*10 cm x 11 cm*)

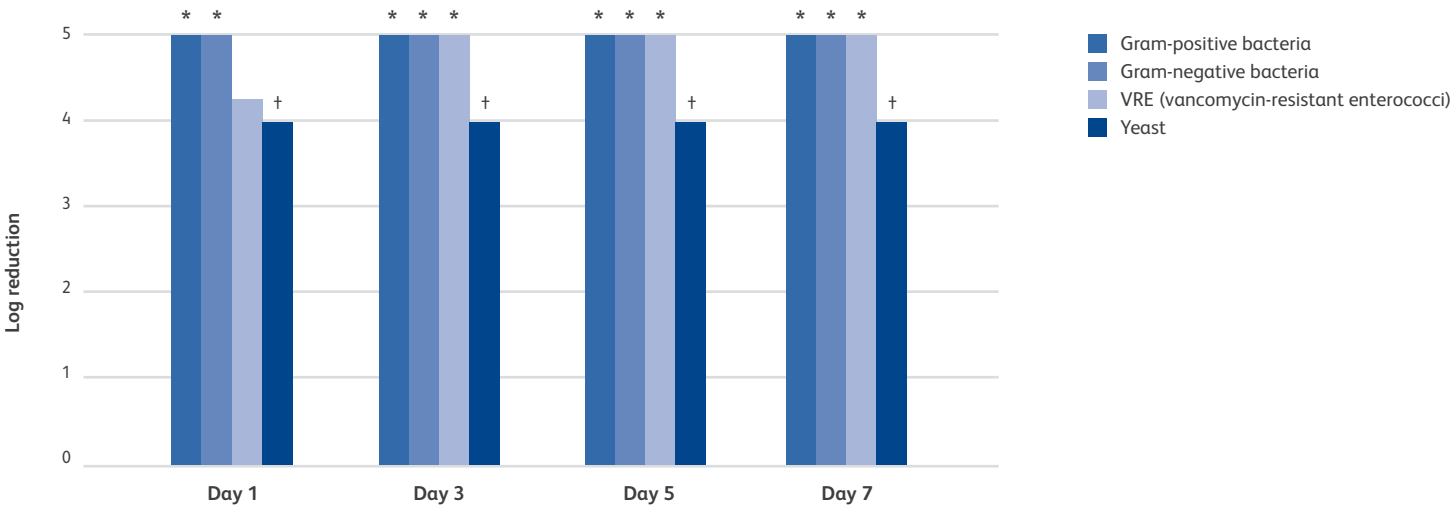
4.0 in. x 4.3 in. (*10 cm x 11 cm*)

*The dressing can manage between 2 and 10 mL of fluid in a 24-hour period depending on dressing size.

Clean seal

Dressing has a broad-spectrum antimicrobial effect.[3]

In vitro testing of the antimicrobial efficacy of BD ChloraShield™ IV dressings against microorganisms commonly associated with nosocomial infections demonstrated a 99.99% reduction in bacteria and yeast.[4]



The product's antimicrobial efficacy is expressed as the logarithmic reduction in survivors compared to the placebo.

Pathogen isolates tested

- Coagulase-negative staphylococci – ATCC® 12228™
- *Staphylococcus aureus* – ATCC® 33591™ and ATCC® 6538™
- *Enterococcus* species – ATCC® 51575™
- *Candida* species – ATCC® 10231™
- *Escherichia coli* – ATCC® 8739™
- *Klebsiella* species – ATCC® 4352™, ATCC® BAA1705™, and ATCC® BAA1706™
- *Pseudomonas aeruginosa* – ATCC® 9027™



BD ChloraShield™ IV dressings provide a barrier to external contaminants including fluids, bacteria, viruses (*27 nm or larger*) and yeast.[3]

Broad-spectrum antimicrobial activity works to prevent growth of a variety of gram-positive and gram-negative bacteria and yeast.[4]

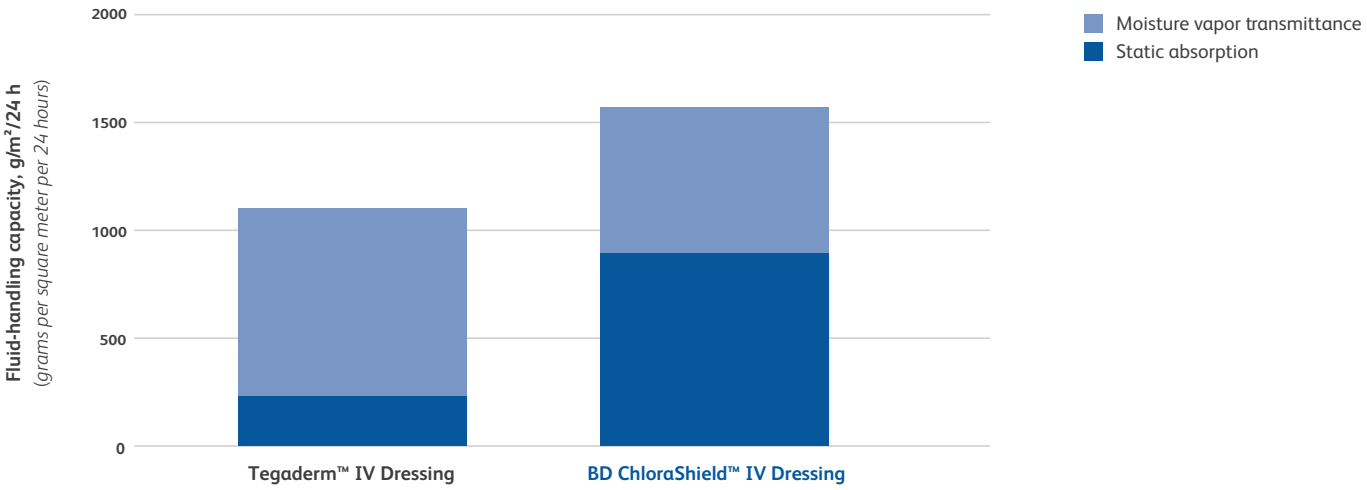
*Fewer than 10 colony-forming units (CFUs) were recovered from the test article, which is the lower limit of the test method's reliable detection capability. We can be certain the log reduction is at least as high as indicated. The test reports listed these results as, for example, > 5.00 log reduction.

†There was a 4-log reduction on yeast at the initial time point.

Clean site

Dressing technology wicks away moisture and exudate.[4*]

The dressing can absorb and wick away fluid and acts as a waterproof and bacterial barrier that protects skin from outside contaminants.



The fluid-handling capacity test was performed by placing test articles onto Paddington cups filled with 20 mL of a 0.9% saline solution. The cups were then left in an oven at 37°C for 24 hours.

The moisture vapor transmittance rate (MVTR) and static absorption were calculated using the gravimetric method.



Hydrophilic polymers facilitate the wicking of moisture and other fluids away from the skin.

The improved fluid absorption capability increases the dressing's total fluid handling by **up to 40%** compared to a standard film dressing.

The dressing helps IV sites stay clean and dry.

*The dressing can manage between 2 and 10 mL of fluid in a 24-hour period depending on dressing size.

Clear view and clear record

Transparency enables site monitoring and management.

A built-in data strip allows for convenient site management.

- Eliminates an extra application step.
- Date and initials can be recorded prior to or following the application.

Transparent material enables visual inspection.

- Frosted CHG-containing adhesive becomes clear with wear.
- Transparency enables continuous monitoring of site without need to disrupt the dressing.

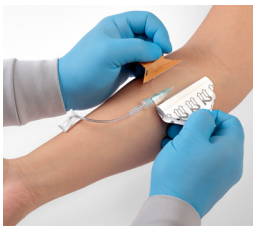


Application and removal instructions

3.0 in. x 2.4 in. IV Dressings

Application - IV Dressing

1. Start



Remove the bottom liner

- Start at the orange end and peel back the bottom liner (*marked 1*) halfway.
- Hold the dressing by the extended adhesive-free orange tab with one hand while the other hand holds the bottom of the peeled back liner without touching the adhesive side of the dressing.

2. Apply



Secure and smooth

- Center the dressing over the catheter site providing a 1-inch border around the catheter insertion site.
- Smooth the dressing to secure it to the skin.

3. Secure



Remove the cover film

- Remove the top film cover by lifting up on the white tab (*marked 2*) and slowly pull in the direction of the arrows.
- Rub down any edges of the dressing that may not be fully adhered.

4. Record



Finalize the application

- Break off the extended orange tab at the dotted line and discard it.
- The data can be noted on the orange strip prior to or following the application.

Remove



Dressing removal

- Grasp the corner of the dressing.
- Pull slightly to stretch and loosen the adhesive.
- Gently peel the dressing back from the skin using the low and slow technique in the direction of the catheter site.

Application - IV Surround Dressing

1. Start



Remove the bottom liner

- Start at the orange end and begin removal of the bottom liner (*marked 1*) from the back of the dressing until the liner reaches a fold, exposing part of the adhesive surface.

2. Apply



Apply the dressing

- Hold the dressing by the extended orange tab with one hand and, using the other hand, hold the partially removed liner back along with the other half of the dressing.
- Apply the exposed adhesive over the catheter insertion site and smooth the dressing into place.

3. Secure



Secure and smooth

- Remove the remainder of the bottom liner.
- Smooth the rest of the dressing with the slit positioned around and under the catheter. Ensure the edges of the slit are joined together under the catheter to fully surround the insertion site.

4. Record



Finalize the application

- Rub down any edges of the dressing that may not be fully adhered.
- Break off the extended orange tab at the dotted line and discard it.
- The data can be noted on the orange strip prior to or following the application.

Remove



Dressing removal

- Grasp the corner of the dressing.
- Pull slightly to stretch and loosen the adhesive.
- Gently peel the dressing back from the skin using the low and slow technique in the direction of the catheter site.

Application and removal instructions

3.3 in. x 2.4 in. IV Dressing

for use with the BD Nexiva™ Closed IV Catheter System

Application - IV Dressing

1. Start



Remove the bottom liner

- Start at the orange end and begin removal of the bottom liner from the back of the dressing until the liner reaches the perforations near the middle of the dressing, exposing half of the adhesive surface.

2. Apply



Align and place

- Center the notch over the proximal end of the catheter tubing while aligning the distal edge of the colored stabilization platform with the horizontal edge of the nonwoven border of the dressing.
- Starting at the insertion site, apply the exposed adhesive half of the dressing to the skin.

3. Surround



Surround the catheter

- Remove the remaining bottom liner and set aside for the next step. Center the bottom portion of the dressing over the catheter extension set and smooth over the colored stabilization platform, but not the extension tubing.
- Insert tubing all the way into the slit. The tabs formed by the slit can overlap, surrounding the extension tubing.

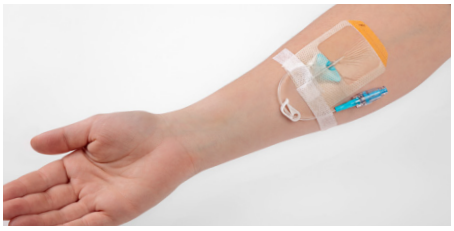
4. Secure



Smooth and tape

- Smooth the edges of the dressing all the way around and ensure the edges are fully adhered.
- Remove the pre-cut sterile tape strips located on the back of the liner by folding the liner back all the way along the perforation.
- Place strips to further secure the extension tubing.

5. Record



Finalize the application

- Break off the extended orange tab at the dotted line and discard it.
- The data can be noted on the orange strip prior to or following the application.

Remove



Dressing removal

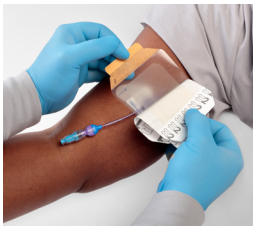
- Grasp the corner of the dressing.
- Gently peel the dressing back from the skin using the low and slow technique in the direction of the catheter site.
- When most of the dressing has been removed, hold the exposed catheter hub in place as the remainder of the dressing is removed.

Application and removal instructions

4.0 in. x 4.3 in. IV Dressings

Application - IV Dressing

1. Start



Remove the bottom liner

- Start from the orange end and peel the bottom liner (*marked 1*) from the back of the dressing until the liner reaches a fold, exposing most of the adhesive surface.
- Hold the dressing by the extended adhesive-free orange tab with one hand, as shown above.

2. Apply



Align, place and smooth

- Center the dressing over the catheter site, providing a 1-inch border around the insertion site.*
- Remove the remaining bottom liner and smooth the dressing to secure it.

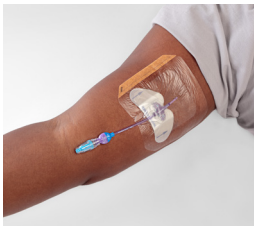
3. Secure



Remove the cover film

- Remove the top film cover by lifting up on the white tab (*marked 2*) and slowly pull in the direction of the arrows.
- Rub down any edges of the dressing that may not be fully adhered.

4. Record



Finalize the application

- Break off the extended orange tab at the dotted line and discard it.
- The data can be noted on the orange strip prior to or following the application.

Remove



Dressing removal

- Grasp the corner of the dressing.
- Pull slightly to stretch and loosen the adhesive.
- Gently peel the dressing back from the skin using the low and slow technique in the direction of the catheter site.

Application - IV Surround Dressing

1. Start



Remove the bottom liner

- Start from the orange end and peel the bottom liner (*marked 1*) from the back of the dressing until the liner reaches a fold, exposing most of the adhesive surface.
- Hold the dressing by the extended adhesive-free orange tab with one hand, as shown above.

2. Apply



Apply the dressing

- Center the dressing over the catheter site, providing a 1-inch border around the insertion site.*
- Apply the exposed adhesive area over the catheter insertion site.

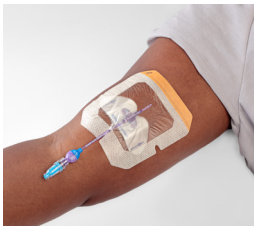
3. Secure



Secure and smooth

- Remove the remainder of the bottom liner and smooth the dressing to secure it to the skin, ensuring a notch is positioned around the catheter extension set to fully surround the insertion site.

4. Record



Finalize the application

- Break off the extended orange tab at the dotted line and discard it.
- The data can be noted on the orange strip prior to or following the application.

Remove



Dressing removal

- Grasp the corner of the dressing.
- Pull slightly to stretch and loosen the adhesive.
- Gently peel the dressing back from the skin using the low and slow technique in the direction of the catheter site.

*If using a BD StatLock™ catheter stabilization device, be sure to fully cover the device with the dressing.

Improve your standard of care

BD ChloraShield™ IV Dressings with CHG Antimicrobial

BD ChloraShield™ IV dressings come in a variety of sizes and configurations that support a wide range of IV applications.

Product name	Description	Catalog number	Size	Dressings per carton	Cartons per case
Peripheral lines					
 **BD ChloraShield™ IV Dressing**	Film dressing with CHG antimicrobial within the adhesive	410111	3.0 in. x 2.4 in. *(75 mm x 60 mm)*	100 dressings	10 cartons
 **BD ChloraShield™ IV Surround Dressing**	Bordered and slit dressing with CHG antimicrobial within the adhesive	410122	3.0 in. x 2.4 in. *(75 mm x 60 mm)*	100 dressings	10 cartons
 **BD ChloraShield™ IV Nexiva™ Dressing**	Bordered and slit dressing designed for the BD Nexiva™ Closed IV Catheter System with CHG antimicrobial and 2 sterile, pre-cut tape strips	410123	3.3 in. x 2.4 in. *(83 mm x 60 mm)*	100 dressings	10 cartons
Central lines					
 **BD ChloraShield™ IV Dressing**	Film dressing with CHG antimicrobial within the adhesive	410131	4.0 in. x 4.3 in. *(10 cm x 11 cm)*	50 dressings	4 cartons
 **BD ChloraShield™ IV Surround Dressing**	Bordered and slit dressing with CHG antimicrobial within the adhesive	410132	4.0 in. x 4.3 in. *(10 cm x 11 cm)*	50 dressings	4 cartons

What if we could reduce complications together?

With BD Vascular Access Management, we can.

BD Vascular Access Management is an integrated program designed to help reduce the risk of IV-related complications. Built around clinical best practices, it utilizes evidence-based assessments, a broad portfolio of products and training and education programs to empower every caregiver on every shift, over the entire life of each line.



Clean, clear comfort you can see

BD ChloraShield™ IV Dressings with CHG Antimicrobial

- The innovative BD ChloraShield™ IV dressing with CHG antimicrobial is designed to address some of the limitations of standard IV catheter dressings including antimicrobial efficacy and moisture management.
- BeneHold™ adhesive technology formulated with CHG provides sustained antimicrobial activity against skin flora for up to 7 days.[3]
- Improved moisture management increases the dressing's total fluid handling capacity up to 40% compared to a standard film dressing.
- BD Vascular Access Management may help reduce the risk of complications and restarts and lower IV failure rates.



For further information on how to use BD ChloraShield™ IV dressings, please see the *Instructions for Use.*
For more information contact your local BD representative or visit **bd.com/ChloraShield**.

References

1 Helm RE, Klausner JD, Klemperer JD, Flint LM, Huang E. Accepted but unacceptable: peripheral IV catheter failure. *J Infus Nurs.* 2015;38(3):189–203. doi: 10.1097/NAN.0000000000000100. **2** Gorski L, Hadaway L, Hagle ME, et al. Infusion Therapy Standards of Practice. *J Infus Nurs.* 2016;39(1S):S1-S169. **3** Carty N, Wibaux A, Ward C, et al. Antimicrobial activity of a novel adhesive containing chlorhexidine gluconate (CHG) against the resident microflora in human volunteers. *J Antimicrob Chemother.* 2014;69(8):2224-2229. **4** Data on file.

Distributed by:
BD Medical
1 Becton Drive
Franklin Lakes, NJ
07417, U.S.A.

Manufactured by:
Avery Dennison België BVBA
Tieblokkenlaan 1,
B-2300 Turnhout, Belgium
vancive.averydennison.com

BeneHold™ CHG adhesive technology by VANCIVE™ MEDICAL TECHNOLOGIES

BD

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