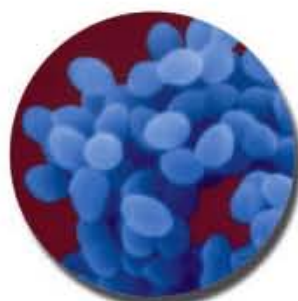


BioPATCH® Protective Disk with CHG – the evidence-based choice.



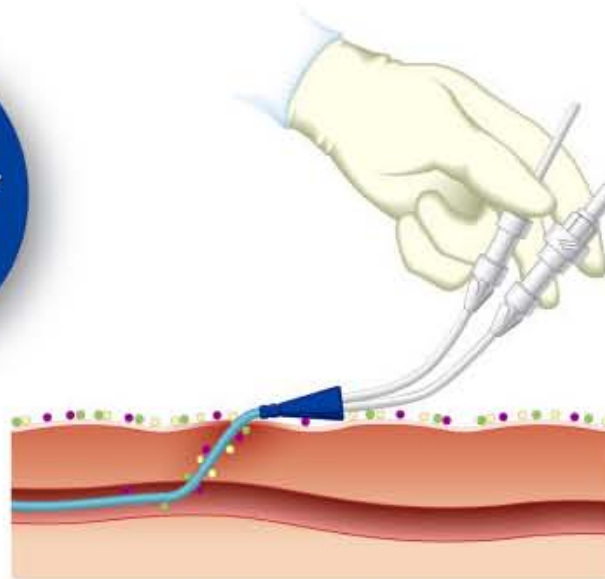
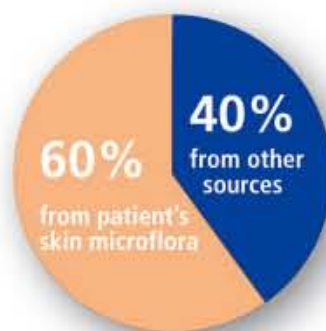
The **ONLY** protective disk **PROVEN** to reduce the incidence of CRBSIs, local infections and skin colonization in patients with central venous and arterial catheters.¹



BIOPATCH®
Protective Disk with CHG

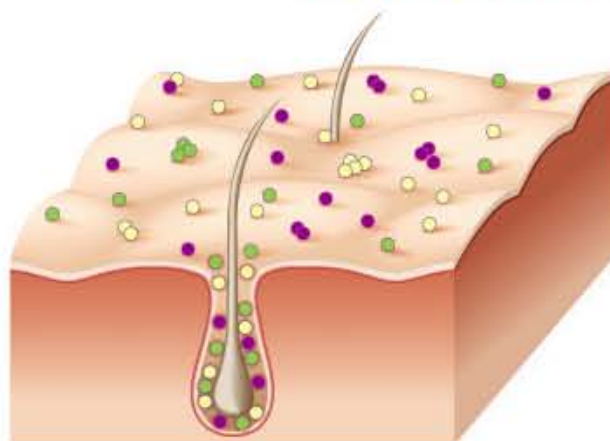
The Problem

**Prepping the skin is not enough² –
60% of CRBSI originate from the patient's own skin³**



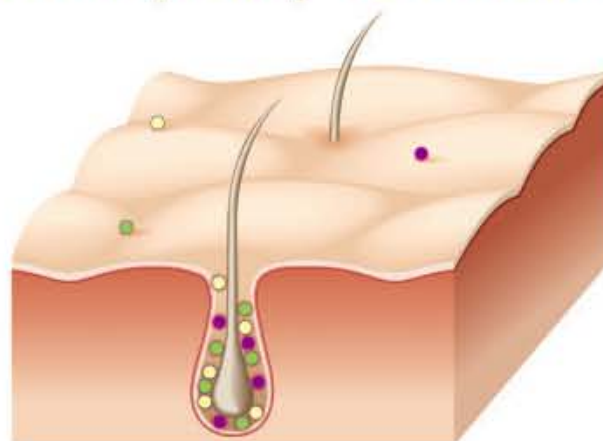
Without continual suppression, bacteria on the skin surface can REPOPULATE and migrate into the bloodstream, elevating the risk of CRBSI.

Within hours of thorough antiseptic application, resident bacteria quickly re-colonize the skin surface²



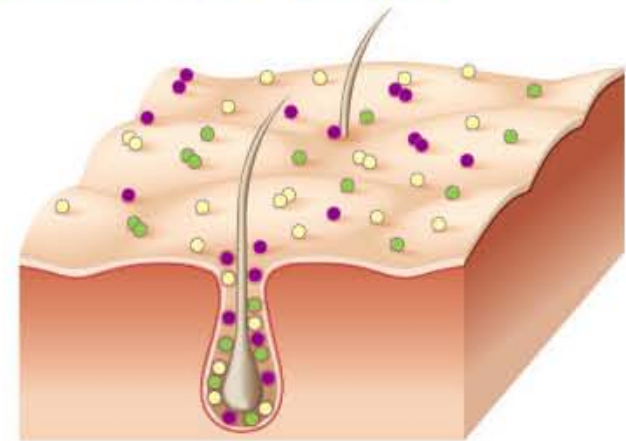
Pre-Prep

Bacteria colonies exist not only on the surface, but below the surface as well, particularly within the hair follicles and sebaceous glands.



Post-Prep (immediately following antiseptic application)

Prepping the skin reduces colony counts of bacteria from the surface only — it never completely disinfects the skin.



Post-Prep (within 1-2 days following antiseptic application)

Resident bacteria begin to re-colonize the skin surface.

Patients need to be protected from their own skin's microflora



Without BioPATCH[®] Protective Disk with CHG, the skin surface quickly returns to the pre-prep environment³



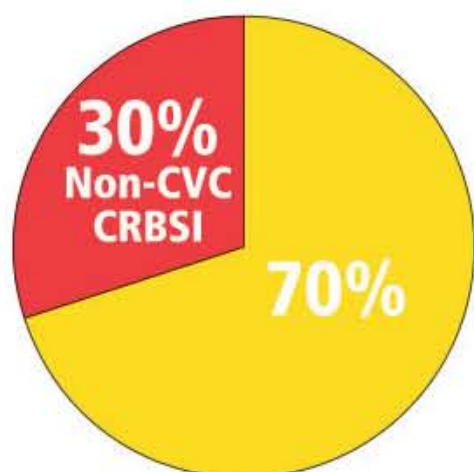
With BioPATCH[®] Disk, post-prep environment extends for up to 7 days⁴

Patient Risk of Infection: Low Medium High

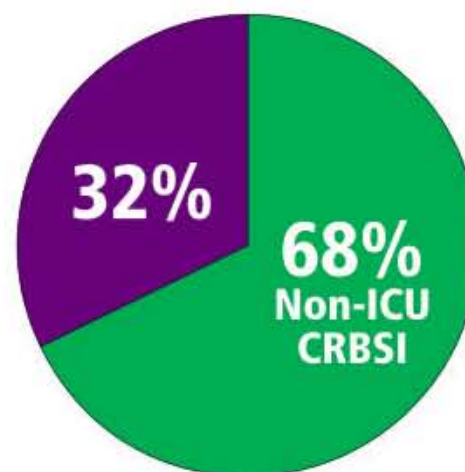
lives are on the line...

CRBSIs...The Scope

Recognize the problem –
catheter-related bloodstream infections (CRBSIs) are a hospital-wide challenge.



Annual Bloodstream Infections
(n = 357,000)⁵



Annual Central Venous CRBSIs
(n = 250,000)⁵

High Incidence

- Although CVCs are implicated in the majority of CRBSI, non-CVC devices account for 30% of total CRBSI
- Of the 250,000 CVC-related bloodstream infections reported annually, 68% occurred outside the ICU

CRBSI's impact on patient recovery and hospital costs

Patient Impact

- Increased morbidity and mortality - CRBSI-attributed mortality ranges from 12 to 25%⁵
- Increased hospital stays

Hospital Impact

- Incremental cost per CRBSI episode ranges from \$25,000 to \$56,000⁵
- Hospitals absorb majority of costs
- US hospitals incur as much as \$2.3 billion per year as a result of CRBSIs⁵

The Need to Take Action - ZERO is the Goal

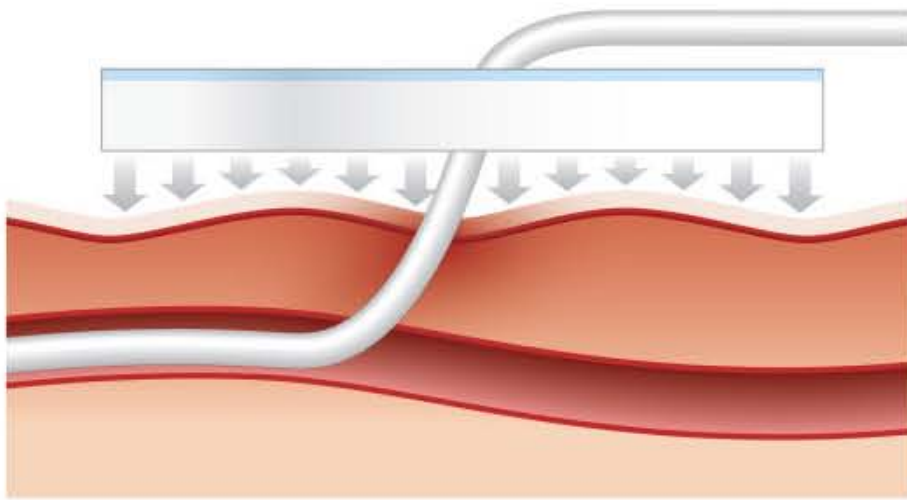
| Organization | Statement |
|------------------|---|
| Joint Commission | Nation Patient Safety Goal #7.4.1 – Implement evidenced-based guidelines to prevent central line associated bloodstream infections by January 1, 2010. |
| CMS | As of October 1, 2008 CMS no longer reimburses hospitals for six preventable HAI including central line associated bloodstream infections. Many private payers follow suit. ⁶ |
| SHEA/IDSA | Five leading healthcare stakeholders (SHEA, IDSA, AHA, APIC, and Joint Commission) have worked together to develop strategies to prevent six of the most important healthcare associated infections (HAIs), including central line associated bloodstream infections. |
| APIC | "Targeting Zero" Initiative – "While not all infections are preventable, working toward zero should be the goal." ⁷ |

lives are on the line, trust the **EV**

The Solution

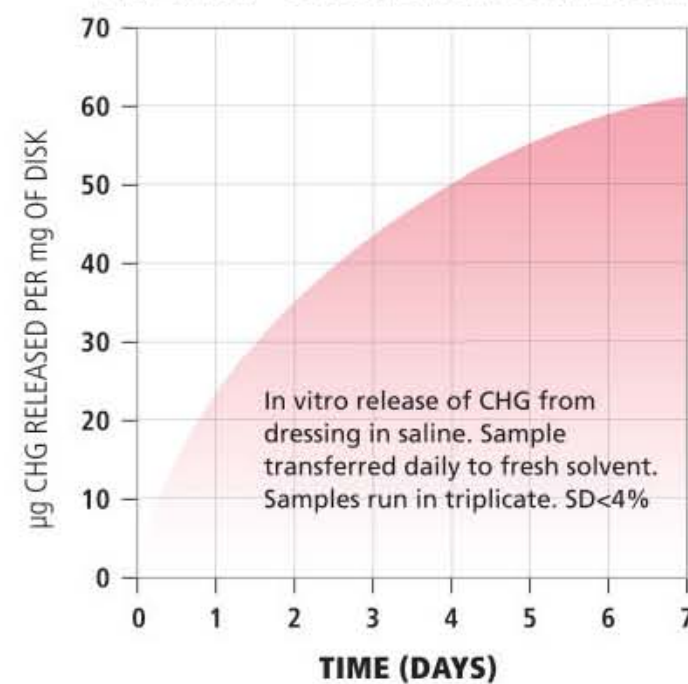
BioPATCH® delivers the right dose of CHG

Through its proprietary delivery technology, BioPATCH® provides proven sustained antimicrobial action over 7 days



Continuous release of CHG provides 360° protection for 7 days — for ongoing antisepsis between dressing changes

BioPATCH® CHG release rate over 7 days



CHG Prep alone allows for a maximum of 48 hour protection. No studies are available that define the amount of CHG present at defined intervals during that 48 hour time period.

Extended release technology.

BioPATCH® continuously delivers CHG over 7 days to maintain skin antisepsis⁸

- Specifically engineered urethane composite material is designed to continuously release CHG – not duplicated by other dressings
- The presence of moisture in the patient's skin initiates the quick release of CHG to maintain the post-prep environment and ongoing skin antisepsis
- Reduces bacteria levels on patients
- Absorbs 8 times its own weight in fluids⁹
- Eliminates frequent dressing changes reducing opportunity to spread bacteria by direct contact
- Ability to see site has been shown to be an unreliable predictor of CRBSIs¹⁰
- BioPATCH® is the **ONLY** protective device **PROVEN** to reduce CRBSIs in patients with central venous and arterial catheters¹

Use with both
vascular and
nonvascular
percutaneous
devices



Central Venous Catheters



Dialysis Catheters



Arterial Catheters



PICC Lines



Mid Lines



Epidural Catheters



Implanted Venous Ports

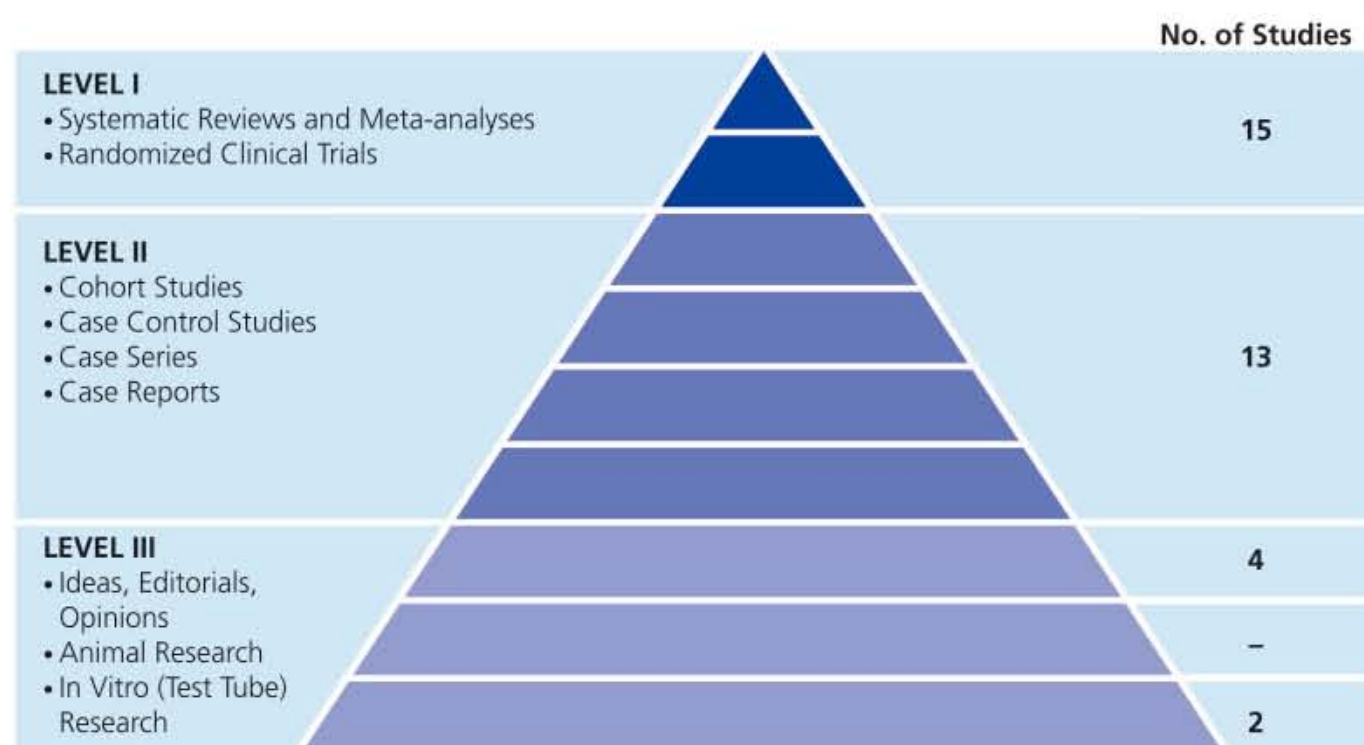


External Fixator Pins

The Evidence

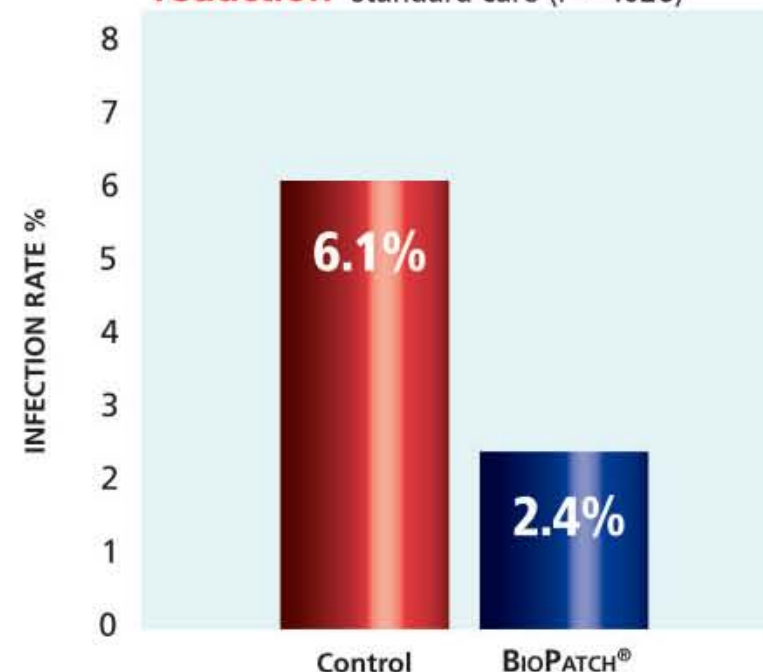
Trust the evidence

Hierarchy of BioPATCH® Evidence



Results from randomized controlled trial¹

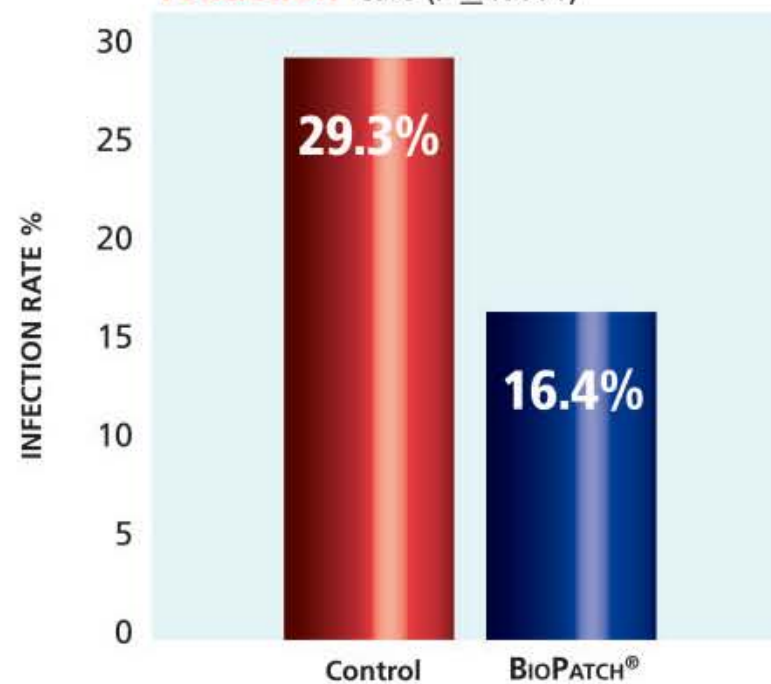
60% reduction in catheter-related bloodstream infections as compared with standard care (P = .026)



Only BioPATCH® has extensive clinical experience – over 15 years

| Author | Year | Meeting/Journal | No. of Patients |
|-----------|------|---|-----------------|
| Timsit | 2009 | <i>Journal of the American Medical Association</i> | 1,636 |
| Garland | 2001 | <i>Pediatrics</i> | 705 |
| Ruschulte | 2008 | <i>Annals of Hematology</i> | 601 |
| Maki | 2000 | Fortieth Interscience Conference of Antimicrobial Agents and Chemotherapy | 589 |
| Honeycutt | 2007 | APIC 34th Annual Education Conference & International Meeting | 342 |
| Levy | 2005 | <i>Pediatric Infectious Disease Journal</i> | 145 |
| Egol | 2005 | <i>Journal of Bone and Joint Surgery</i> | 118 |
| Chambers | 2005 | <i>Journal of Hospital Infection</i> | 112 |
| Shapiro | 1990 | <i>Anesthesiology</i> | 57 |
| Mann | 2001 | <i>Anaesthesia and Intensive Care</i> | 55 |
| Hanazaki | 1999 | <i>Journal of Hospital Infection</i> | 50 |
| Wu | 2008 | <i>International Wound Journal</i> | 40 |
| Karwowska | 1995 | <i>Pediatric Research</i> | 35 |
| Roberts | 1998 | <i>Australian Critical Care</i> | 33 |

44% reduction in local infections as compared with standard care (P ≤ .0001)



SHEA/IDSA Practice Recommended

In the SHEA/IDSA practice recommendations a "chlorhexidine-containing sponge dressing" has received a Category B recommendation and the highest possible rating for the Quality of Evidence (I). Over the past 15 years BioPATCH® Protective Disk with CHG has been evaluated in multiple studies and controlled randomized trials. It is **the only** device of its kind with an FDA-cleared indication to reduce local infections, catheter-related bloodstream infections (CRBSIs), and skin colonization of microorganisms commonly related to CRBSI, in patients with central venous or arterial catheters!

- The **ONLY** one of its kind **PROVEN** to reduce CRBSIs 60%¹
- Engineered for continuous protection – up to 7 days
- Powerful protection that could reduce deaths attributable to CRBSIs
- Contains CHG – a potent antibacterial and antifungal agent recommended by the CDC for ongoing skin antisepsis⁵
- 15 years of clinical experience



| ORDER CODE | 4150 | 4151 | 4152 |
|--|---|---|---|
| SIZE | 1" disk (2.5 cm) w/4.0 mm center hole | 3/4" disk (1.9 cm) w/1.5 mm center hole | 1" disk (2.5 cm) w/7.0 mm center hole |
| FRENCH SIZE RANGE | 6-12 Fr | <6 Fr | 13-20 Fr |
| AVERAGE AMOUNT OF CHG PER DRESSING | 92 mg | 52.5 mg | 86.8 mg |
| QUANTITY PER CASE | 10/box 4 boxes/case; 40 | 10/box 4 boxes/case; 40 | 10/box 4 boxes/case; 40 |
| HCPSC CODE ^{11,12} | | | |
| – for use with peg tubes | A6209 | A6209 | A6209 |
| – for use with drug infusion catheter site | A4221 | A4221 | A4221 |

*WARNING: Not for use on premature infants or patients with known sensitivity to CHG. Safety and effectiveness in children under 16 years of age has not been established.

References

1. Maki DG, Mermel L, Gentner D, Hua S, Chiacchierini RP. An evaluation of Biopatch® Antimicrobial Dressing compared to routine standard of care in the prevention of catheter-related bloodstream infection. Johnson & Johnson Wound Management, a division of ETHICON, INC. 2000. Data on file. 2. Hendley JO, Ashe KM. Effect of topical antimicrobial treatment on aerobic bacteria in the stratum corneum of human skin. *Antimicrobial Agents and Chemotherapy*. April 1991;35(4):627-631 3. Saldar N, Maki DG. The pathogenesis of catheter-related bloodstream infection with noncuffed short-term central venous catheters. *Intensive Care Med* 2004;30:62-67 4. Bhende MS, Rothenburger S. In vitro antimicrobial effectiveness of 5 catheter insertion-site dressings. *The Journal of the Association for Vascular Access*. 2007; 12(4):227-231 5. O'Grady NP, Alexander M, Dellinger EP, et al. Guidelines for the prevention of intravascular catheter-related infections. Centers for Disease Control and Prevention. *MMWR Recomm Rep*. 2002 Aug 9;51(RR-10):1-29. 6. Centers for Medicare and Medicaid Services Web site. Hospital-Acquired Conditions. Available at <http://www.cms.hhs.gov/HospitalAcqCond/>. Accessed October 1, 2008. 7. Association for Professionals in Infection Control and Epidemiology Web site. Available at http://www.apic.org/AM/Template.cfm?Section=Featured_News_and_Events&CONTENTID=12731&TEMPLATE=/CM/ContentDisplay.cfm. Accessed January 22, 2009. 8. Shapiro JM, Bond EL, Garman JK. Use of a chlorhexidine dressing to reduce microbial colonization of epidural catheters. *Anesthesiology*. 1990 Oct;73(4):625-31. 9. Biopatch® Protective Disk with CHG (Full Prescribing Information). Somerville, NJ. ETHICON, Inc. 10. Safdar N, Maki DG. Inflammation at the insertion site is not predictive of catheter-related bloodstream infection with short-term noncuffed central venous catheters. *Crit Care Med*. 2002; 30:2632-2635 11. Healthcare Common Procedural Coding System for Medicare Part B Reimbursement. 12. The information contained in this document is provided for informational purposes only and represents no statement, promise, or guarantee by Johnson & Johnson Wound Management concerning levels of reimbursement, payment, or charge. Similarly, all CPT (copyright © AMA) and HCPCS codes are supplied for informational purposes only and represent no statement, promise, or guarantee by Johnson & Johnson Wound Management that these codes will be appropriate or that reimbursement will be made. It is not intended to increase or maximize reimbursement by any payor. We strongly recommend that you consult your payor organization with regard to its reimbursement policies.

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BIOPATCH®
Protective Disk with CHG