



ChloraPrep™ patient preoperative skin preparation products

The only FDA-approved 2% CHG/70% IPA preoperative skin preparation with a one-step applicator

ChloraPrep™ patient preoperative skin preparation, the industry-leading patient preoperative skin preparation brand, has been committed to innovation in skin prep for 15 years. Beyond ChloraPrep products, BD provides clinical data, education and training to help you standardize your processes, ensure proper product utilization and guide compliance to the most up-to-date recommendations and guidelines.

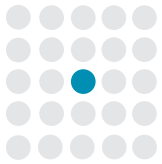
Choose the brand used in more facilities than any other skin prep—ChloraPrep patient preoperative skin preparation.



Healthcare-associated infections (HAIs)

HAIs are a growing issue for hospitals, significantly impacting quality, costs and patient outcomes.

HAIs have a huge impact on healthcare



1 in 25 people
will get an infection
during a hospital stay.¹



722,000 people

per year in the United States
get an infection during a hospital stay.¹



U.S. healthcare costs of HAIs reach
\$9,800,000,000 annually.



This amounts to nearly **\$26,850,000** per day.²

HAIs kill more people annually than breast cancer and prostate cancer combined.¹

HAIs → 75,000

Diabetes: 68,504

Heart failure: 56,752

Breast cancer: 41,135

Prostate cancer: 24,154



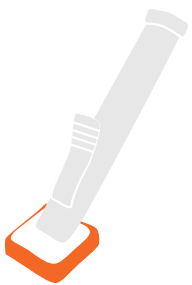
Skin is the source—why skin prep is important in reducing the risk of HAIs

An estimated **80%** of skin flora reside in the **first five layers** of our outermost skin.³

When the skin is incised, the exposed tissues are at risk for contamination.



A single square centimeter of skin can host as many as **10 million** aerobic bacteria which are a leading cause of HAIs.⁴



Chloraprep patient preoperative skin preparation kills bacteria on the skin that can potentially cause skin infection.

ChloraPrep patient preoperative skin preparation

Proven formulation plus a proprietary one-step applicator



The advantage of ChloraPrep products

ChloraPrep products provide the following benefits:

- Rapid and persistent antimicrobial activity⁴
- Effectiveness against a broad spectrum of microorganisms⁵
- Effectiveness in the presence of blood, unlike iodine-based products⁵
- Low incidence of irritation⁵
- No or minimal systemic absorption⁶



Clinical evidence shows that the ChloraPrep patient preoperative skin preparation applicator's method of delivery of antiseptic to the skin is a critical factor in antiseptic efficacy.⁷

- The sterile, single-use applicator facilitates aseptic technique by moving the clinician's hand away from the patient's skin.*
- The proprietary tinting process allows enhanced visualization of the prepped area.
- The proprietary wing design facilitates easy activation.
- The foam sponge helps control solution flow while facilitating a gentle scrubbing motion.

BD ChloraPrep is more than just a skin antiseptic solution



Clinical evidence

ChloraPrep is more than just a skin antiseptic solution. Clinical evidence in more than 50 peer-reviewed publications supports the use of ChloraPrep—a 2% chlorhexidine gluconate (CHG) and 70% isopropyl alcohol (IPA) formulation contained in a proprietary one-step applicator, which together comprise the ChloraPrep technology.

Innovating for more than 15 years

ChloraPrep products have a well-documented, 15-year history of innovation and expertise in patient preoperative skin preparation.

Proven better than iodine

ChloraPrep products have been shown to outperform alcohol-based and iodine-based products.^{8,9}

FDA-approved indications

All ChloraPrep products have met FDA testing requirements and then have been approved by the FDA for the preparation of a patient's skin prior to surgery. This means that they achieve at least a 2-log reduction in microbial flora per square centimeter of an abdominal site and at least a 3-log reduction in microbial flora per square centimeter of groin sites within 10 minutes and suppression of growth below baseline for six hours.

ChloraPrep products also meet AORN and CDC recommended guidelines for patient preoperative skin preparation.^{10,11}

Standardize your preoperative skin preparation

ChloroPrep products feature the proven 2% CHG/70% IPA formulation plus the proprietary one-step applicator design that can help you standardize practice and reduce variability.

The broad portfolio of applicator sizes provides:

- A standardized application process across care settings*
- Reduced variability in practice, leading to increased clinical efficiency
- Standardized practices to help increase compliance with clinical standards and guidelines
- A wide range of coverage areas to fit your clinical needs



Applicator	Cat. no.	Packaging	Coverage area
Single swabstick 1.75 mL	260100	48 pouches per carton 10 cartons per case	2.5 in × 2.5 in
Triple swabstick 5.25 mL	260103	40 pouches per carton (3 swabsticks per pouch) 10 cartons per case	5 in × 5 in
1 mL clear applicator	260480	60 applicators per carton 4 cartons per case	2.5 in × 2.5 in
Frepp™ 1.5 mL clear applicator	260299	20 applicators per carton 25 cartons per case	2.5 in × 2.5 in
3 mL clear applicator	260400	25 applicators per carton 4 cartons per case	4 in × 5 in
3 mL Hi-Lite Orange™ tint	260415	25 applicators per carton 4 cartons per case	4 in × 5 in
10.5 mL clear applicator	260700	25 applicators per carton 4 cartons per case	8.4 in × 8.4 in
10.5 mL Hi-Lite Orange tint	260715	25 applicators per carton 4 cartons per case	8.4 in × 8.4 in
10.5 mL Scrub Teal™ tint	260725	25 applicators per carton 4 cartons per case	8.4 in × 8.4 in
26 mL clear applicator	260800	25 applicators per case	13.2 in × 13.2 in
26 mL Hi-Lite Orange tint	260815	25 applicators per case	13.2 in × 13.2 in
26 mL Scrub Teal tint	260825	25 applicators per case	13.2 in × 13.2 in



Partner with BD for ongoing training and support

Teaming up to enhance patient care

Our dedicated team of consultants and clinicians with expertise in infection prevention can help identify gaps in your current skin prep practice through direct observation and in-depth discussion. We provide in-service training, education materials, practice recommendations and ongoing support to help:

- Enable clinicians to advance practice
- Clinical leaders ensure clinical teams are using the right product at the right time
- Enhance the skill of clinicians to improve patient care
- Standardize practices and ensure compliance with clinical standards and guidelines

Learn more about BD skin preparation products at bd.com/chloraprep or call 800.523.0502.

* Application process does not apply to swabstick format.

References

1 Centers for Disease Control and Prevention. *HAI Data and Statistics*. Accessed September 30, 2016 at <http://www.cdc.gov/hai/surveillance/>
2 Zimlichman E, Henderson D, Tamir O, et al. Health-care associated infections: a meta-analysis of costs and financial impact on the US health care system. *JAMA Intern Med*. 2013;173(22):2039–2046. 3 Brown E, Wenzel RP, Hendley JO. Exploration of the microbial anatomy of normal human skin by using plasmid profiles of coagulase-negative staphylococci: search for the reservoir of resident skin flora. *J Infect Dis*. 1989;160(4):644–650. 4 Hibbard JS. Analyses comparing the antimicrobial activity and safety of current antiseptic agents: a review. *J Infus Nurs*. 2005;28(3):194–207. 5 Denton G. Chlorhexidine. In: Block S, ed. *Disinfection, Sterilization, and Preservation*. 5th ed. Lippincott Williams & Wilkins; 2001:321–336. 6 Larson E. Guideline for use of topical antimicrobial agents. *Am J Infect Control*. 1988;16(6):253–266. 7 McDonald C, McGuane S, Thomas J, et al. A novel rapid and effective donor arm disinfection method. *Transfusion*. 2010;50(1):53–58. 8 Saltzman MD, Nuber GW, Gryzlo SM, Marecek GS, Koh JL. Efficacy of surgical preparation solutions in shoulder surgery. *J Bone Joint Surg Am*. 2009;91(8):1949–1953. 9 Ostrander RV, Botte MJ, Brage ME. Efficacy of surgical preparation solutions in foot and ankle surgery. *J Bone Joint Surg Am*. 2005;87(5):980–985. 10 O'Grady NP, Alexander M, Burns LA, et al; Centers for Disease Control and Prevention. *Guidelines for the Prevention of Intravascular Catheter-Related Infections, 2011*. Atlanta, GA: Centers for Disease Control and Prevention, U.S. Department of Health and Human Services; 2011. 11 Association of periOperative Registered Nurses. Guideline for Preoperative Patient Skin Antisepsis. In: Association of periOperative Registered Nurses. *Guidelines for Perioperative Practice*. Denver, CO: Association of periOperative Registered Nurses, Inc.; 2015:43–66.

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