



BD Surgical Safety and Efficiency Program

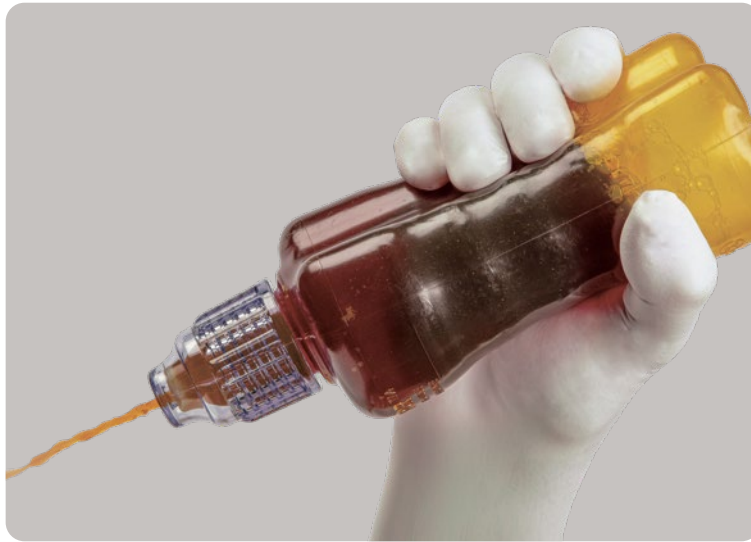
Power in Prevention

Power in Prevention Product Areas

BD Power in Prevention offers evidence-based solutions that can help increase efficiencies and reduce costs with the use of BD products and solutions.



Hair Removal



Wound Irrigation



Surgical Skin Antisepsis

BD delivers experience

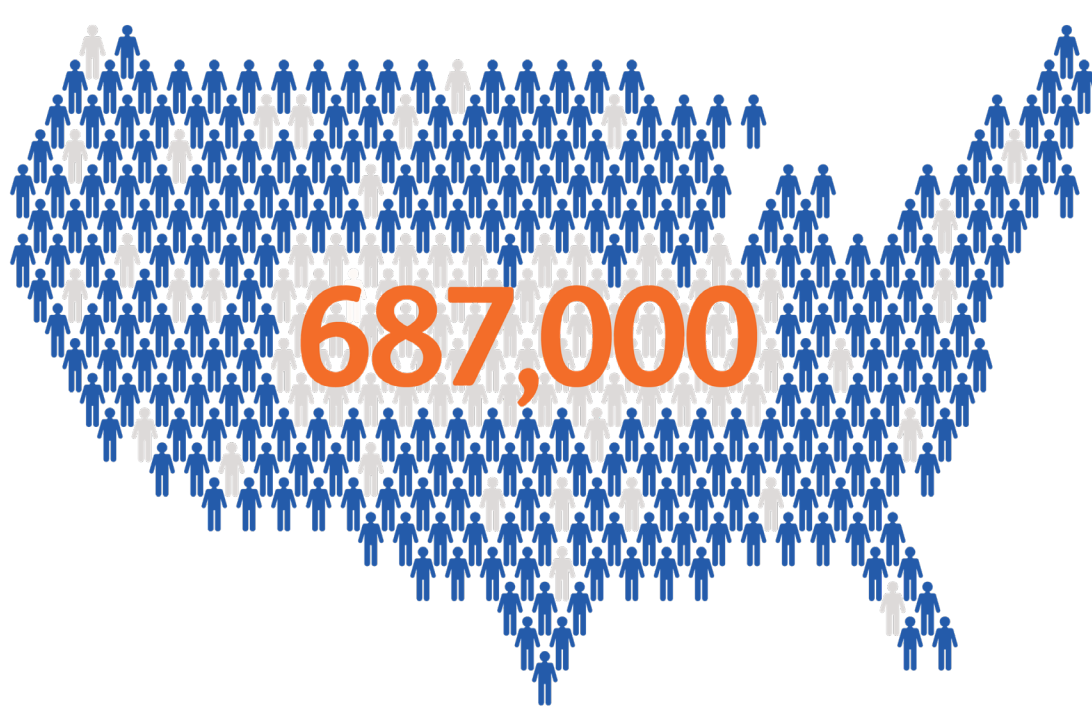
- 20,000+ OR practice observations
- 1,500+ US healthcare facilities since launching in 2014¹



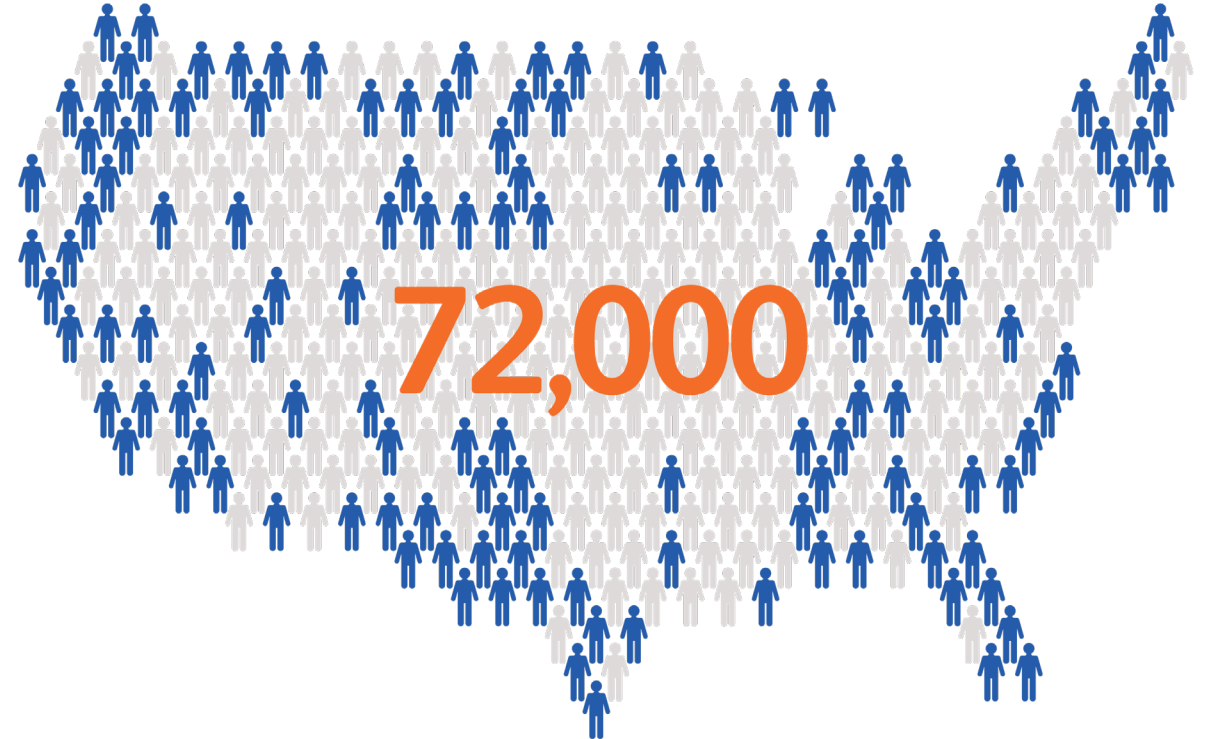
HAIs – a growing issue impacting quality, costs and outcomes

HAIs kill more people annually than breast cancer^{2,3}

7.4% of patients who experience an adverse event will die⁴



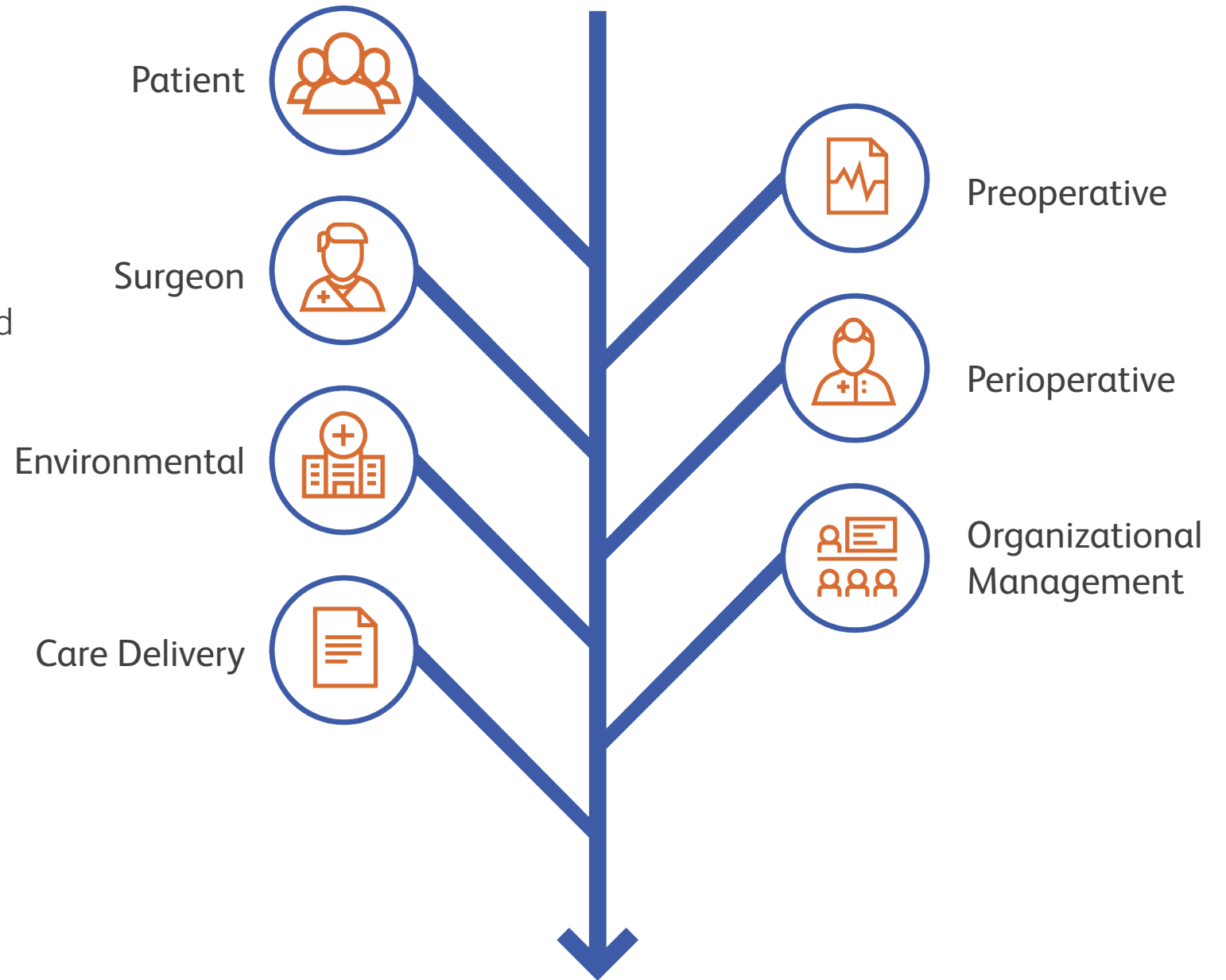
687,000 patients develop HAIs in the US²



72,000 patients die in the US every year²

Surgical outcome factors

- Surgical outcomes are affected by a number of factors⁵
- Remember, it only takes one factor to lead to a patient contracting an HAI



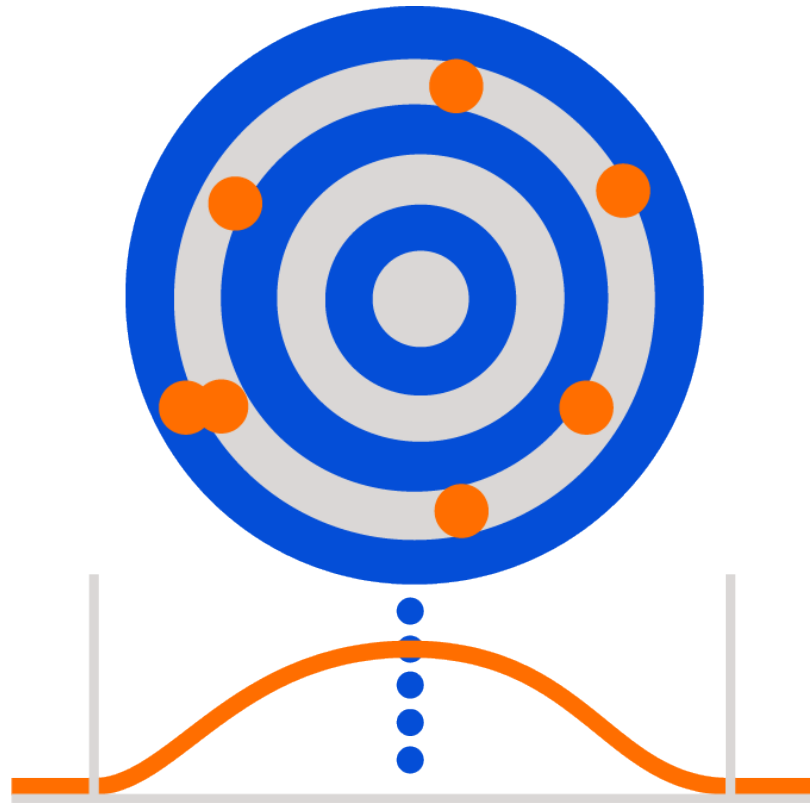
A microscopic view of skin bacteria, showing several elongated, rod-shaped bacteria with green internal structures and purple outer membranes, set against a dark, textured background.

Skin bacteria

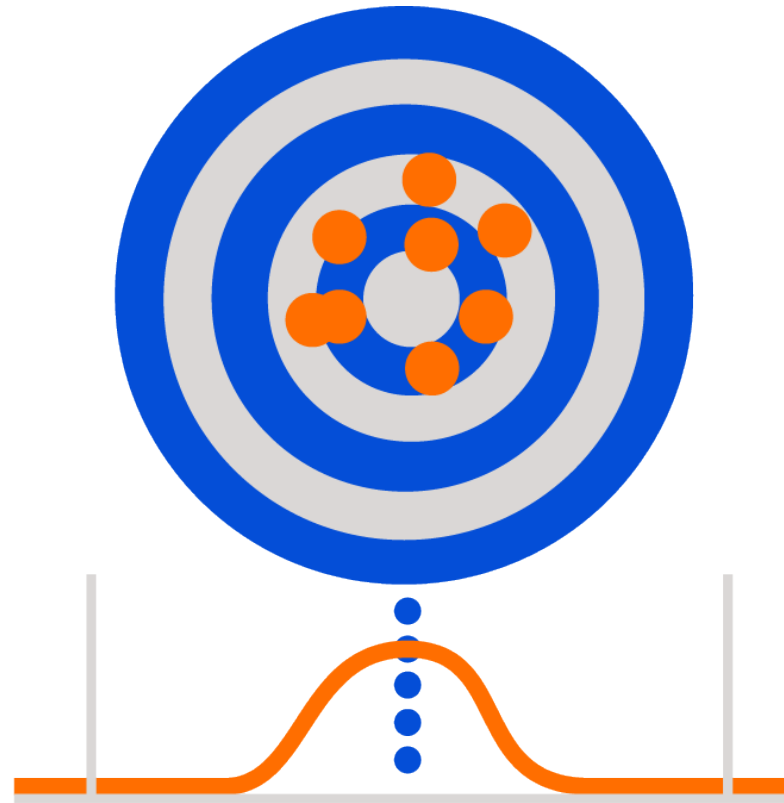
- The skin carries thousands of naturally occurring bacteria and fungi, which are typically harmless.
- Around 80% of this skin flora (bacteria and fungi) resides in the first five cell layers of the stratum corneum.⁶

Standardization can minimize variability in processes

The concept of defect reduction applies to processes across industries, not just healthcare

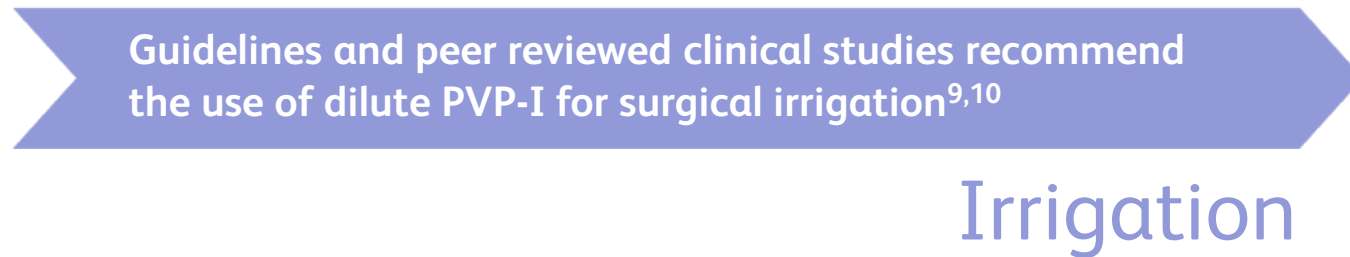
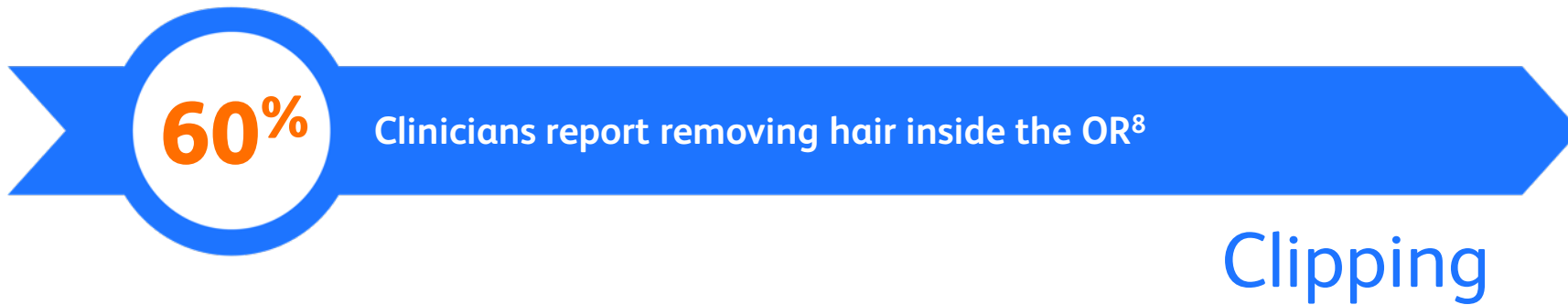
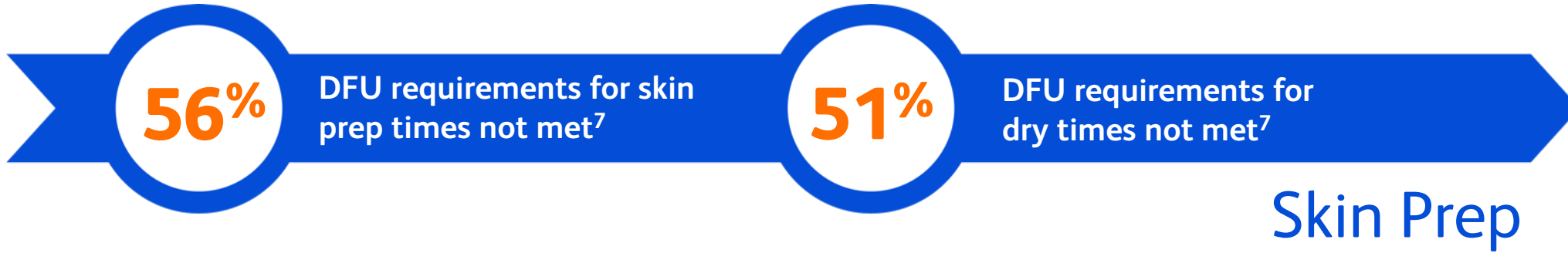


High Variation



Low Variation

Historical Data shows that compliance is not ideal

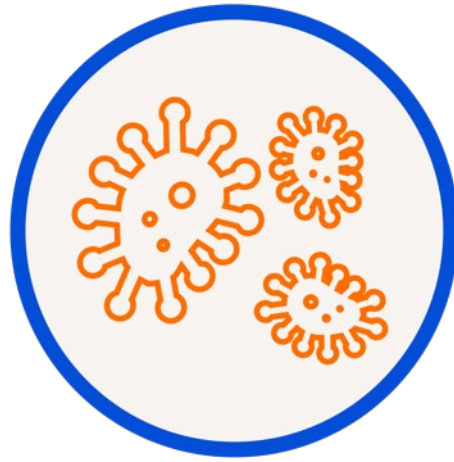


Addressing these problems requires a holistic approach



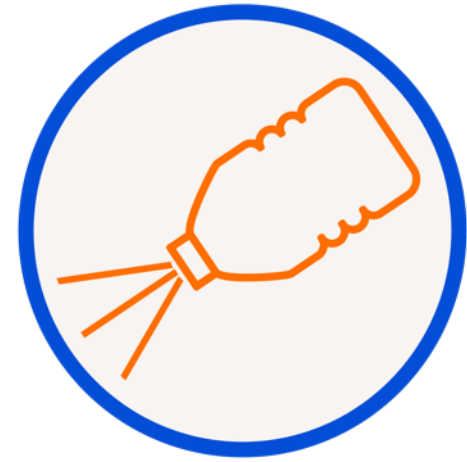
Clinical colonization

- Improper hand hygiene
- Improper OR attire



Skin colonization

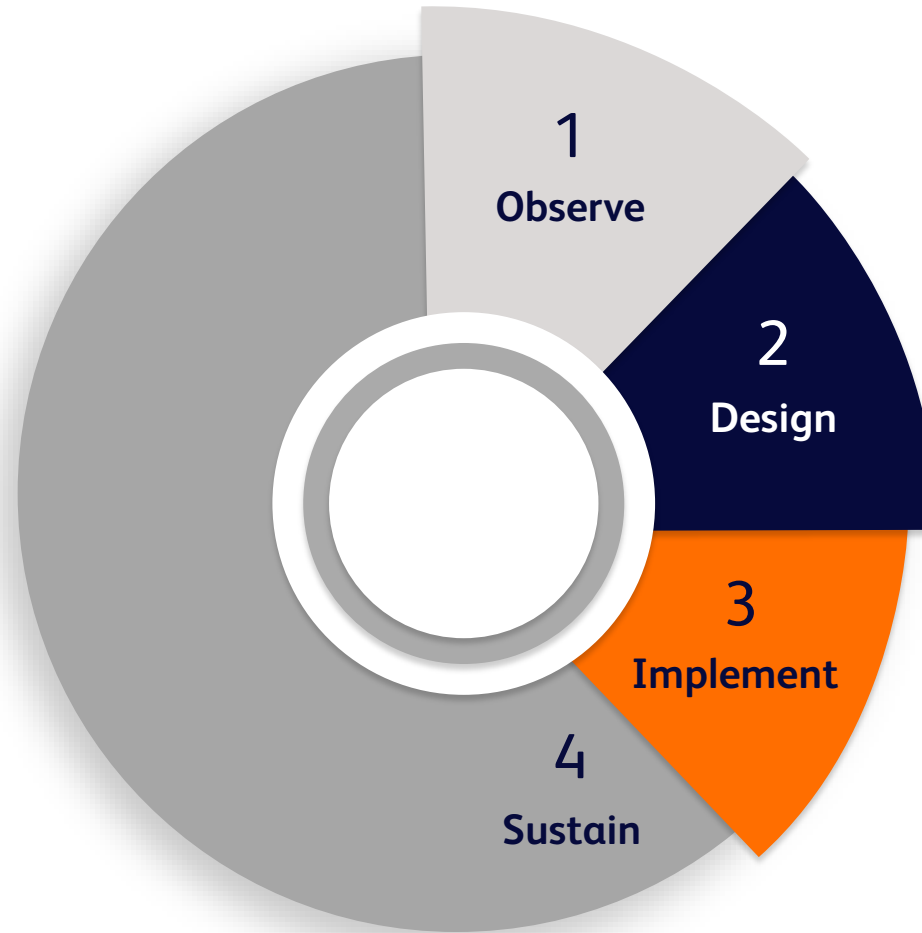
- Incomplete skin antisepsis
- Hair dispersal
- Lack of patient cleansing



Wound Contamination

- Antimicrobial stewardship
- Sterile Solutions
- USP<797> standards
- Irrigation solutions should be used within 1 hour of mixing¹¹

Improving your Prepping Practices through the proper use of the BD Pre-operative Skin Prep, Clipping and Wound Irrigation Portfolio



The BD Power in Prevention team includes clinical and operational experts, who will use an evidence-based approach to:

Review

- Practices and protocols in your operating room.

Report

- Variability in comparison to standards from WHO, AORN, ACOS, and CDC.

Address

- Variability issues by collaborating with your team and delivering customized BD solutions.

Improving your Prepping Practices through the proper use of the BD Pre-operative Skin Prep, Clipping, and Wound Irrigation Portfolio

- Convert single agent prep users to dual agent preps ¹⁰
- Reduce variability in prepping processes with an evidence-based skin prep chart ¹²
- Standardize glove usage ¹³
- Reduce hair removal in the OR ¹⁴
- Improve coverage area of antiseptics ¹⁵
- Standardize who is prepping ¹²
- Reduce variability in wound irrigation solutions with dilute PVP-I ⁹



BD Surgical Clippers and BD ClipVac™ Presurgical Hair Removal System

Quick, clean hair removal

- Comprehensive solution for prep-op hair removal
- 40% average faster clipping and cleanup time than clippers and tape
- Captures an average 98.5% of hair and airborne contaminants at the source¹⁶



BD ChloraPrep™ Patient Preoperative Skin Preparation with Sterile Solution

Elevating the standard in skin antiseptic sterility

- Comes ready to use in a proprietary sterile applicator for even greater peace of mind
- Broad-spectrum, rapid and persistent antimicrobial activity for at least 7 days.¹⁷⁻²⁰
- Superior antibacterial performance vs. iodine- and alcohol-based products^{21, 22}



BD PurPrep™ Patient Preoperative Skin Preparation with Sterile Solution. Sterile povidone-iodine (PVP-I) plus isopropyl (IPA) solution

The first and only sterile iodine-based skin prep applicator available in the United States

- In clinical studies, povidone-iodine (PVP-I) has demonstrated broad-spectrum antimicrobial properties²³
- An option when CHG/IPA is contraindicated or for patients with CHG allergies/sensitivities
- Patented sterilization process and sterile, single-use applicator help protect patients from the risk of intrinsic and extrinsic antiseptic contamination²⁴

BD Chloraprep™ with sterile solution

BD PurPrep™ with sterile solution

Prior to use, refer to the product Instructions for Use (IFU) for indications for use, precautions, warnings and contraindications. Use in accordance with the policies and procedures of your facility. For more information, visit [bd.com](https://www.bd.com)



BD Surgiphor™ Sterile Wound Irrigation System

The first, and only, pre-mixed terminally sterile aqueous PVP-I surgical wound irrigation solution*.

- Guidelines and peer reviewed clinical studies support the use of dilute PVP-I for surgical irrigation
- PVP-I serves as a preservative within the solution providing a broad-spectrum antimicrobial effect against gram-positive and gram-negative bacteria and yeast to reduce the risk of unwanted microbial growth in the solution after the bottle is opened
- Sterility assurance level of 10^{-6} giving our customers confidence that the product being used has a one in a million chance of containing a viable organism**

* PVP-I is an antimicrobial preservative contained within the bottled solution

** Sterility assurance level in accordance with ISO 11137

Disclaimer

Please consult product labels and inserts for any indications, contraindications, hazards, warnings, precautions and instructions for use.

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BD Surgiphor™

Indication for use: Surgiphor™ Sterile Wound Irrigation System is a wound cleansing delivery system intended to loosen and remove wound debris.

Contraindications: Surgiphor™ Sterile Wound Irrigation System should not be used in patients with known allergic reaction to any of the ingredients in the solutions. Surgiphor™ Sterile Wound Irrigation System should also not be combined with other irrigation or antiseptic solutions due to potential reactions and reduction in the effectiveness of the system. Not for use in neonates.

Warnings: Do not use or mix with other cleansers, soaps, lotions, or ointments. Do not use for injection or infusion. Do not swallow. Do not use in eyes or ear canals. Discontinue use immediately if irritation or an allergic reaction occurs. Do not use if packaging is damaged or if seal integrity is compromised. Do not reuse Surgiphor™ solution after 24 hours.

Precautions: Surgiphor™ solution may cause a temporary irritation and/or burning sensation on exposed skin in very rare cases. Surgiphor™ solution may cause allergic reactions such as rash or skin irritation in patients with iodine allergy. Anaphylaxis with the use of Surgiphor™ solution may occur in patients with severe iodine allergy. Federal law restricts this device to sale by or on the order of a licensed physician. Single patient use only. Not for at-home use.

BD Surgical Clippers Fair and Balance

Surgical Clipper and Charging Adapter Stand Instructions For Use

Intended use: The BD Surgical Clipper REF 5513E is a rechargeable clipper used with charging adapter (REF 5514 series) and BD disposable blades only (REF 4406, 4403A or 4412A). It is intended to remove head and body hair prior to any medical procedure requiring hair removal. The hair is removed by each blade oscillated by an electric motor. The BD 5513E Clipper will easily and effectively remove body hair and even the thickest hair from the chest with BD disposable blade REF 4406, scalp and other thick coarse hair with BD disposable blade REF 4412A, and other difficult-to-clip areas of the body with BD disposable blade REF 4403A. The Clipper effectively removes wet or dry hair.

Instructions for use: Only trained healthcare personnel should use the Surgical Clipper. Patient's skin should be clean. Healthcare professional should instruct patient to avoid sudden movement during clipping process. For best results clip against the direction of hair growth. It is best to always stretch skin taut for clipping.

Disinfection: Clipper should be disinfected after each use.

Warning: BD blades (REF 4406, 4403A, and 4412A) are single use only and specifically designed for use with the BD 5513E. The user assumes responsibility for appropriate use of this Clipper. Using blades not manufactured or approved by BD will void any warranty and patient results cannot be predicted. Re-use of blades may result in a nonfunctional product and could contribute to cross contamination; potentially putting patient safety at risk.

BD Surgical Clippers Fair and Balance (cont.)

Prior to use: The clipper REF 5513E must be used with REF 5514 series charger. Disposable single use blades (REF 4406, 4403A and 4412A) are designed for optimal use with 5513E only. Keep charging adapter cord away from heated surfaces. Do not position charging adapter where it is difficult to unplug. Do not place the Clipper on the charging adapter until charging adapter is seated on a flat surface or securely mounted to a wall. Prior to charging Clipper ensure charging adapter is free of metallic debris. Do not expose to hot water, salt water, organic solvents or bleach solutions. Do not use with damaged blade, handle, or both. Do not take the housing apart as this can affect the watertight construction. Inspect treatment site for selection of appropriate blade. If skin irregularities are present, proceed with caution. Healthcare personnel should instruct patient to avoid sudden movement during clipping process.

During use: Do not apply Clipper blade to injured skin area. Operating Clipper without blade could lead to injury. Do not use near flammable anesthetic, aerosol spray or oxygen — administering equipment other than nasal or mask types. Do not leave Clipper running without applying to skin for more than 1 minute as blade temperature may exceed 60 °C and potentially leading to thermal injury. Do not keep the Clipper blade applied to the same position of the patient's skin for longer than 1 minute (these operations may result in blade surface becoming hot). In cases of minor injury, seek medical treatment if necessary.

Next steps to move forward with a PIP (Power in Prevention)

- Discuss potential dates and communication to the staff
- Schedule a date to review results to the ad hoc team
- Discuss expectations for process improvements, education, and sustainability

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Thank you



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