

The greatest risk factor for SSI is a patient's skin^{1,2}

Create a sterile surface.

Every surgical patient risks Surgical Site Infection (SSI)

The skin can contain over **1 million** bacteria per square centimeter.³

It takes only

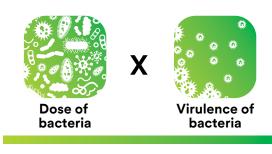


microbes per square centimeter* to cause a surgical site infection (SSI).⁴

*When implant is present

Reducing a patient's microbial load is critical to avoiding an SSI. The Centers for Disease Control and Prevention (CDC) measures SSI risk using three distinct variables.⁵ The variable we can most affect: the dose of bacteria on the skin.







Patient risk factors

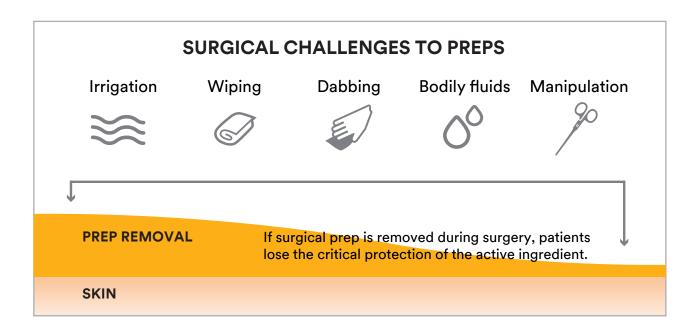
A human and financial cost

SSIs can affect a patient's quality of life and create stress for patients and their families. And they place a huge operational and financial burden on health care systems and providers. Using evidence-based practices to reduce skin microbes — before and during surgery — and creating a barrier to microbial migration can help reduce the risk of an SSI.



Start with the proper prep

A proper skin prep reduces a patient's bacterial load throughout the perioperative process, providing both immediate and lasting protection. But not all preps perform the same during surgery. Preps need to stay on the skin to remain effective. Preps can be removed during surgery by saline irrigation, dabbing with sponges or gauze, or contact with bodily fluids.

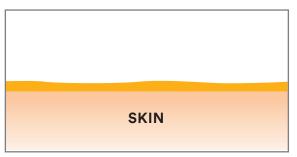


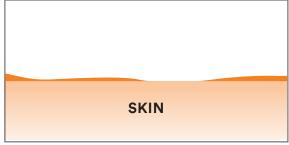
Resisting removal during surgery

3M[™] DuraPrep[™] Surgical Solution (Iodine Povacrylex [0.7% available iodine] and Isopropyl Alcohol, 74% w/w) Patient Preoperative Skin Preparation was scientifically formulated to protect the prep from removal during surgery. It contains 3M[™] Prep Protection Film, which dries to form a persistent and durable layer of protection on the patient's skin.¹¹

3M Prep Protection Film

As a result, a study showed that 3M DuraPrep surgical solution is more resistant to removal by saline-soaked gauze than ChloraPrep[™] Skin Prep. In fact, the same study showed that 3M DuraPrep surgical solution had significantly greater bacterial reduction than ChloraPrep[™] Skin Prep after challenge by saline-soaked gauze in simulated surgery.¹²





3M[™] DuraPrep[™] Surgical Solution

ChloraPrep™ Skin Prep



Reducing incise drape lift

Incise drape lift at the edge of an incision can allow bacteria to migrate into the surgical wound. In fact, in one study drape lift was associated with a six-fold increase in SSI.¹³ Some skin preps, such as ChloraPrep[™] Skin Prep, can lead to increased drape lift. The 3M Prep Protection Film in 3M DuraPrep surgical solution acts as a primer that helps a drape stick to the patient's skin to protect against incise drape lift.

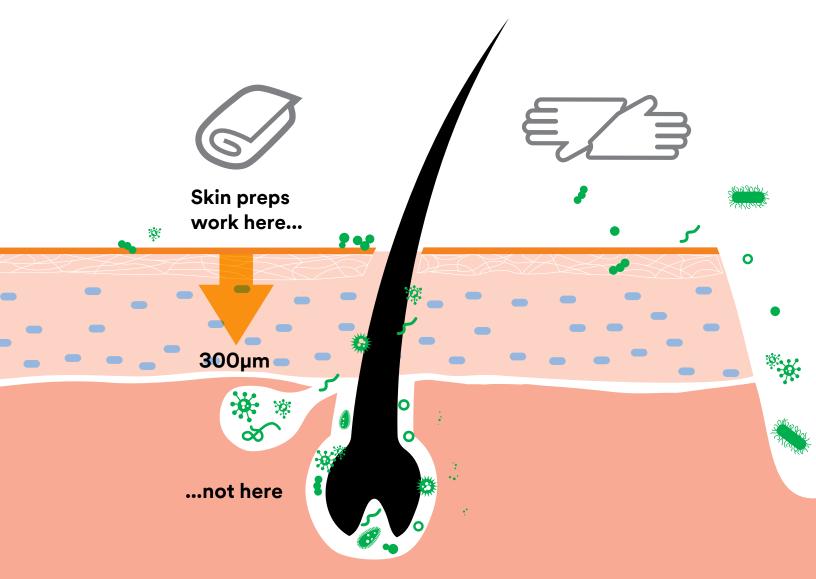


SSI% Help lower the risk of infection 8.2 ChloraPrep™ Skin Prep In a sequential implementation study on the effect of preoperative preps on infection rate, it was observed that surgeries using lodophor-based 4.8 iodophor-based surgical preps (including surgical preps p = .001 DuraPrep surgical solution) had a significantly lower SSI rate than surgeries using ChloraPrep™ SSI rate by prep received, N=3,209 general surgeries Skin Prep.¹⁵

Preps alone are not enough

While skin prep antiseptics reduce microbes, they work primarily on the skin surface, not in the deeper layers of the skin. Chlorhexidine gluconate (CHG), in skin preps, for example, does not penetrate into the deeper layers of the skin. Below a depth of 300 microns, CHG concentration may not be effective for killing bacteria.¹⁶

Without additional protection, residual bacteria on the skin's surface and bacteria that migrate from the hair follicles can be picked up by items that touch the skin and transferred into the incision, increasing the patient's risk of infection.



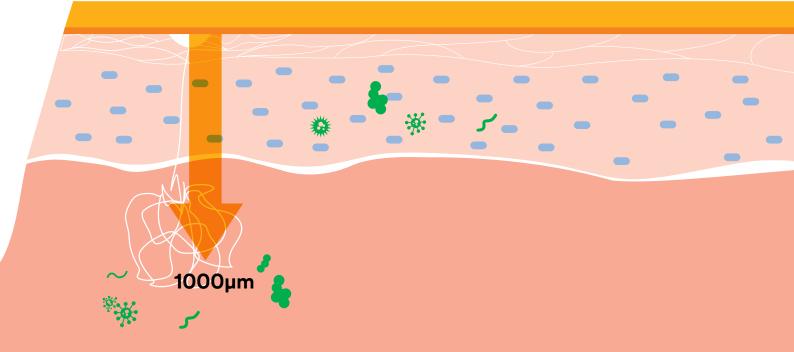
Skin preps are antimicrobial and reduce the number of microbes on the skin surface, but bacteria in the deeper layers may remain.

Use an incise drape

An incise drape creates a physical barrier to prevent objects like instruments, gloves and sponges from coming into contact with the patient's skin, reducing the risk of contamination that could cause a costly and potentially devastating SSI. In a recent ex vivo study on human skin, the iodine in 3M[™] loban[™] 2 Antimicrobial Incise Drape was shown to be present at concentrations effective against MRSA at a depth of 1,000 microns, in the deeper layers of the skin, where hair follicles are present.¹⁷



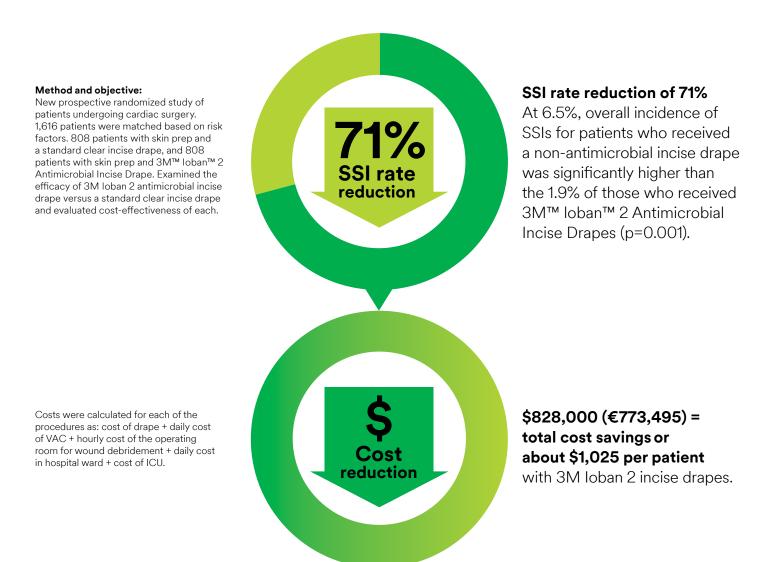
3M[™] Ioban[™] 2 Antimicrobial Incise Drape creates a sterile barrier, and iodine from the drape has been shown to be present in the deeper skin layers.¹⁷



Help lower SSI risk and costs

Bejko study results¹⁸

In a study published in 2015, 3M[™] Ioban[™] 2 Antimicrobial Incise Drape was associated with lower SSI risk and reduced cost when compared to a non-antimicrobial incise drape in cardiac surgery.

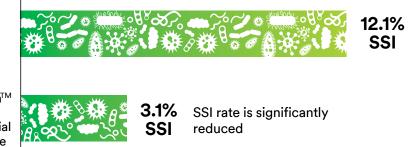


Reduce wound infection rates

Yoshimura study results¹⁹

In a retrospective study involving liver resection surgery, 3M loban 2 incise drape, compared with no incise drape, was associated with a significant reduction in postoperative wound infection rates, from 12.1% to 3.1% (p=0.01). No incise drape

3M[™] loban[™] loban 2 Antimicrobial Incise Drape % surgical site infection rate



Method and objective:

Retrospective study from 1994 to 2001 looking at 296 patients undergoing liver surgery. Examined the impact on wound infection using just a skin prep vs. a skin prep and 3M loban 2 Incise Drapes.

Using a sterile surface to fight SSIs

The risk of SSI is a real — and devastating — possibility for every surgical patient. Using an effective prep along with an antimicrobial incise drape reduces bacterial load and creates a sterile surface to minimize wound contamination.



Ordering Information

3M[™] DuraPrep[™] Surgical Solution (lodine Povacrylex [0.7% available iodine] and Isopropyl Alcohol, 74% w/w) Patient Preoperative Skin Preparation

3M Cat No.	Product	Coverage	Size	ltems/ box	Boxes/ case
8630	3M DuraPrep surgical solution	Application covers 450 sq. in. (15 in. x 30 in.); ideal for large procedures — thoracic and CV, spine, total hip and knee, C-section, major abdominal.	26 mL	20	1
8635	3M DuraPrep surgical solution	Application covers 80 sq. in. (8 in. x 10 in.); ideal for mid-size procedures — biopsies, foot and hand, angiography, head and neck procedures.	6 mL	50	1

3M[™] Ioban[™] 2 Antimicrobial Incise Drapes with paper liner

3M Cat No.	Product	Adhesive area	Items/box	Boxes/case
6635	3M Ioban 2 Antimicrobial Incise Drape	3.875" x 7.875" 10cm x 20cm	10	4
6640	3M loban 2 Antimicrobial Incise Drape	13" x 13" 34cm x 35cm	10	4
6650	3M Ioban 2 Antimicrobial Incise Drape	22" x 17" 56cm x 45cm	10	4
6648	3M Ioban 2 Antimicrobial Incise Drape	22" x 23" 56cm x 60cm	10	4
6651	3M Ioban 2 Antimicrobial Incise Drape	22" x 33" 56cm x 85cm	10	4

3M[™] Ioban[™] 2 Antimicrobial Incise Drapes EZ with plastic liner

3M Cat No.	Product	Adhesive area	Items/box	Boxes/case
6661EZ	3M Ioban 2 Antimicrobial Incise Drape EZ	10.5" x 8" 26cm x 20cm	50	4
6640EZ	3M Ioban 2 Antimicrobial Incise Drape EZ	13" x 13" 35cm x 35cm	10	4
6650EZ	3M Ioban 2 Antimicrobial Incise Drape EZ	23" x 17" 60cm x 45cm	10	4
6648EZ	3M Ioban 2 Antimicrobial Incise Drape EZ	23" x 23" 60cm x 60cm	10	4
6651EZ	3M Ioban 2 Antimicrobial Incise Drape EZ	23" x 33" 60cm x 85cm	10	4

3M Drapes With Ioban[™] 2 Incise Area (Specialty Drapes)

3M Cat No.	Product	·	Overall size	Adhesive area	Items/ box	Boxes/ case
6665	Abdominal-Perineal Drape - Lithotomy Position		78" x 107" 200cm x 274cm	13" x 17" 33cm x 45cm	5	1
6677	Cardiovascular Sheet with Ioban 2 Incise Film		100" x 150" 254cm x 381cm	16" x 38" 41cm x 97cm	6	1
6681	Cardiovascular Drape with Ioban 2 Incise Film	North Contraction	100" x 151" 254cm x 384cm	16" x 61" 41cm x 154cm	8	1
6682	Cardiovascular Drape		330cm x 254cm	78cm x 43cm	8	1
6657	Pouch with loban 2 Incise Film		35" x 30" 89cm x 76cm	12" x 12" 30cm x 30cm	10	4
6658	Pouch with loban 2 Incise Film, Large		30" x 30" 76cm x 76cm	13" x 17"	5	4
6659	Pouch with loban 2 Incise Film, Extra Large		29" x 34" 74cm x 87cm	16" x 20" 42cm x 52cm	5	4
6697	Cesarean Section Sheet with Ioban 2 Incise Pouch		100" x 115" 254cm x 292cm	12" x 12" 30cm x 30cm	5	1
6697CA	Steri-Drape™ Cesarean Section Sheet with Ioban™ 2 Incise Pouch and Clear Screen		100" x 118" 254cm x 300cm	12" x 12" 30cm x 30cm	5	1
6617	Isolation Drape with Ioban 2 Incise Film and Pouch		125" x 83" 320cm x 213cm	19" x 9.37" 50cm x 24cm	5	4
6619	Large Isolation Drape with Ioban 2 Incise Film and Pouch		129" x 100" 378cm x 254cm	27" x 12" 70cm x 32cm	5	1
6687	Craniotomy Drape with Ioban 2 Incise Pouch		77" x 160" 196cm x 406cm	14.5" x 8.43" 36.8cm x 21.4cm	10	1

For more information on how to use a sterile surface to fight SSIs, or to **request a free sample**, contact your 3M account representative.

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