



# Why global guidelines favor antimicrobial incise drapes over non-antimicrobial drapes.

Antimicrobial incise drapes create a sterile operative surface prior to surgery and help to safeguard patients against surgical site infections (SSIs). **Many global healthcare organizations explicitly recommend the use of antimicrobial incise drapes over non-antimicrobial incise drapes**, recognizing their crucial role in enhancing patient safety.

## Guidelines from Global Organizations

<b>KRINKO (2018)<sup>1</sup></b>	Iodine-impregnated incise drapes are antimicrobial effective and penetrate deeper skin layers, helping to reduce wound contamination. The use of non-impregnated incise drapes is not recommended.
<b>APSIC (2019)<sup>2</sup></b>	When using adhesive incise drapes, do not use non-iodophor-impregnated drapes for surgery as they may increase the risk of SSI. In orthopedic and cardiac surgical procedures where adhesive drapes are used, consider using an iodophor-impregnated incise drape, unless the patient has an iodine allergy or other contraindication.
<b>NICE (2019)<sup>3</sup></b>	Do not use non-iodophor-impregnated incise drapes routinely for surgery, as they may increase the risk of SSIs. If an incise drape is required, use an iodophor-impregnated drape unless the patient has an iodine allergy.
<b>ACORN (2023)<sup>4</sup></b>	Adhesive drapes with antimicrobial properties can be used in the critical aseptic field unless contraindicated (i.e. patient allergy). These include but are not limited to iodophor-impregnated adhesive drapes.
<b>ICM (2018)<sup>5</sup></b>	Evidence indicates antimicrobial-impregnated incise drapes result in reduction in bacterial colonization of the surgical site. "While bacterial colonization of the incision may predispose to subsequent SSIs/PJIs, there is no literature to demonstrate that the use of incise drapes results in clinical differences in the rates of subsequent PJIs. Many surgeons prefer to utilize draping for physical isolation of sterile from nonsterile regions and to prevent migration of drapes during the procedure."
<b>NHMRC (2019)<sup>6</sup></b>	If an incise drape is required, use an iodophor-impregnated drape unless the patient has an iodine allergy. Do not use non-iodophor-impregnated incise drapes routinely for surgery as they may increase the risk of surgical-site-infection.

## Evidence speaks volumes

Clinical and economic studies show the superiority of antimicrobial incise drapes over non-antimicrobial incise drapes.



**A cost-effective solution to help prevent SSIs**

Use of the 3M™ Ioban™ 2 Antimicrobial Incise Drape resulted in a significantly lower incidence of SSIs down by 71% and also offered **\$812K+ in cost savings** compared to a standard 3M™ Steri-Drape™ Incise Drape.<sup>7</sup>



**A significant reduction in SSIs**

A retrospective study analysis of 2,279 patients in a university spine center showed that use of an antimicrobial incise drape resulted in a **75% reduction in the rate of SSIs** when compared to non-antimicrobial incise drapes.<sup>8</sup>



**Better drape adherence**

In a prospective, randomized clinical study, the results showed Ioban 2 Antimicrobial Incise Drape adhered significantly better to skin than 3M™ Steri-Drape™ Incise Drape when prepped with either 3M™ DuraPrep™ Surgical Solution (Iodine Povacrylex [0.7% available iodine] and Isopropyl Alcohol, 74% w/w) Patient Preoperative Skin Preparation solution or BD Chloraprep® Patient Preoperative Skin Preparation ( $p < .001$ ).<sup>9</sup>

# 3M™ Ioban™ Antimicrobial Incise Drapes.

## Two effective antimicrobial solutions.

Solventum offers two exceptional antimicrobial incise drape options: 3M™ Ioban™ 2 Antimicrobial Incise Drape and 3M™ Ioban™ CHG Chlorhexidine Gluconate Incise Drape (contains 2% w/w CHG).



**Ioban 2 Antimicrobial Incise Drape** features an iodophor-impregnated adhesive, providing continuous broad-spectrum antimicrobial activity to help reduce the risk of surgical site infections (SSIs).



**Ioban™ CHG Incise Drape** offers the advantage of incorporating chlorhexidine gluconate in the adhesive, providing superior antimicrobial activity against a broad spectrum of pathogens.

Both products immobilize bacteria on the skin, preventing migration into the surgical incision area, and maintain their effectiveness throughout the procedure. And both incise drapes offer surgeons reliable, guideline recommended solutions for creating a sterile operative surface.

### Comparing incise drapes: antimicrobial vs. non-antimicrobial

	Ioban 2 Antimicrobial incise drape	Ioban CHG Chlorhexidine Gluconate Incise Drape	Non-Antimicrobial clear incise drape
Clear		☑	☑
Aligned to guidelines	☑	☑	
Supported by evidence	☑	☑*	
High adhesion	☑	☑	
Antimicrobial properties	☑	☑	
Conformable	☑	☑	

\*Solventum internal data on file.

For more about the critical importance of antimicrobial drapes versus non-antimicrobial drapes in helping to reduce the risk of SSIs, contact your Solventum sales representative.

1. KRINKO Surgical Site Infection Prevention Guidelines, 2018.
2. Asia Pacific Society of Infection Control Guidelines for the Prevention of Surgical Site Infections, 2019.
3. National Institute of Health and Care Excellence (NICE). Surgical site infections: prevention and treatment. (NG125) Published April 11, 2019. Accessed May 3, 2022.
4. Australian College of Perioperative Nurses Ltd (ACORN) The New ACORN Standards. Volume-1-2023 Standards for safe and Quality Care in the Perioperative Environment (SSQCPE) for Individuals. Asepsis Standard, Critical Aseptic Field Maintenance.
5. Gerald Atkins, Maria Alberdi, Andrew Beswick, et al. *J Arthroplasty*. 2019;34(2S):S85-S92.
6. NHMRC National Health and Medical Research Council guidelines for the prevention and control of infection in healthcare. NHMRC. 2019.
7. Jonida Bejko, Vincenzo Tarzia, Massimiliano Carrozzini, Michele Gallo, et al. Comparison of Efficacy and Cost of Iodine Impregnated Drape vs. Standard Drape in Cardiac Surgery: Study in 5100 Patients. *J Cardiovasc Transl Res* 2015, 8:431-7.
8. Aylin Gencer, Christian Schichor, Joerg-Christian Tonn, Sebastian Siller. *Neurosurg Spine*. Nov 10 2023;1-7. doi:10.3171/2023.9.SPINE23764
9. Inv Final Rpt-05-000936 (In vivo drape adhesion study over DuraPrep solution and tinted ChloroPrep with 30-minute saline challenge, 2010).

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