

## 3M Surgical Solutions

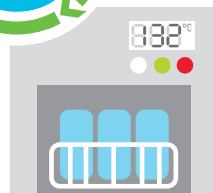
# Solutions to help Reduce the Risk of Complications

## Spine Surgery Solutions

We know how important providing quality and efficient care is to you and your patients. 3M's patient-centered science enables us to deliver products that are clinically effective and can help provide standardization in partnership with your clinical experts. Implementing 3M solutions may help reduce the risk of pre-, intra- and post-operative complications.

### Sterilization Monitoring

Sterilization assurance monitoring is important to ensure sterilization parameters have been met. The 3M™ Attest™ Brand advantage offers a standardized, simplified and streamlined approach to your sterility assurance monitoring program using specific monitoring controls. This includes the 24-minute dual system which works with any-well technology and provides Biological Indicator (BI) results for both Steam and Vaporized Hydrogen Peroxide sterilization in one reader.

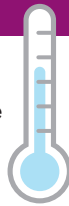


Product	Product #
<b>3M™ Attest™ Super Rapid 5 Steam-Plus Challenge Pack*</b> For 132°C (270°F) 4 Minute and 135°C (275°F) 3 Minute dynamic-air-removal steam sterilization cycles (Meets AAMI ST79 Guideline).	41482V
<b>3M™ Attest™ Super Rapid Readout Biological Indicator*</b> Singles	1492V (Steam) 1295 (VH2O2)
<b>3M™ Attest™ Steam Chemical Integrator</b> (AAMI Type 5)	1243 (Steam)
<b>3M™ Attest™ Vaporized Hydrogen Peroxide Tri-Metric Chemical Indicator</b> (AAMI Type 4)	1348 (VH2O2)
<b>3M™ Comply™ Bowie-Dick Test Pack</b> (AAMI Type 2)	00135LF
<b>3M™ Comply™ Lead Free Steam Indicator Tapes for Disposable Wraps</b> (AAMI Type 1)	1355
<b>3M™ Comply™ Hydrogen Peroxide Indicator Tape</b>	1228

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 490 or with a Model 490H having software version 4.0.0 or greater or with 3M™ Attest™ Mini Auto-reader 490M. 24 minute results available only on 490/490H Auto-readers having software versions 4.0.0 or greater.

Additional 3M Medical product options and sizes are available. Visit [3M.com/Medical](https://www.3m.com/Medical) for more information.

## Pre-Op



### Ensure vital signs are accurately measured and optimized.

Core body temperature is a critical vital sign that should be monitored throughout the perioperative journey. The 3M™ Bair Hugger™ Normothermia System helps clinicians proactively monitor and maintain patients' core body temperature with a consistent, accurate and non-invasive system. Maintaining normothermia can help protect patients from unintended perioperative hypothermia, a complication associated with numerous negative outcomes, including surgical site infections.<sup>1,2</sup> The Bair Hugger™ normothermia system is used **pre-, intra- and post-operatively.**

Product	Product #
<b>3M™ Bair Hugger™ Plus Warming Gown</b> Can be used throughout the perioperative process.	81002
<b>3M™ Bair Hugger™ Warming Units</b> Use together with a Bair Hugger warming blanket or gown to help prevent inadvertent perioperative hypothermia.	67500 77500
<b>3M™ Bair Hugger™ Temperature Monitoring System</b> Provides a resistance that YSI-400 compatible patient monitors can interpret.	37000 36000
<b>3M™ Red Dot™ Foam Monitoring Electrode</b> Monitor patient ECG.	2228

### Avoid complications with IV catheter care.

Short-term peripheral catheters may be responsible for a significant number of catheter-related bloodstream infections.<sup>3</sup>



Product	Product #
<b>3M™ Tegaderm™ Antimicrobial IV Advanced Securement Dressing</b> Integrated IV dressing combines antimicrobial protection with site visibility, catheter securement and breathability (3-3/8" x 2-3/4").	9132
<b>3M™ Tegaderm™ Transparent Film Dressing</b> Suitable for IV catheter sites and minor abrasions or lightly draining wounds (2-3/8" x 2-3/4").	1624W
<b>3M™ Curosurf Jet™ Disinfecting Cap for Needleless Connectors</b> Intended for use on needleless connectors as a disinfecting cleaner prior to IV access and acts as a cover between line accesses.	CFJ1-270

### Prep before the OR.

It is important to begin prepping for surgery before entering the OR by reducing the amount of bacteria on the patient's skin surface and by performing proper hand hygiene.



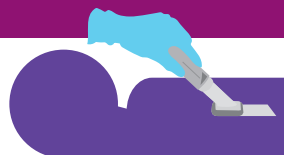
Product	Product #
<b>3M™ Skin and Nasal Antiseptic (Povidone-Iodine Solution 5% w/w [0.5% available iodine] USP)</b> Reduces bacterial counts in the nares in 1 hour, including <i>S. aureus</i> by 99.5%, and maintains this reduction for at least 12 hours. <sup>4</sup>	192401
<b>3M™ Avagard™ (Chlorhexidine Gluconate 1% Solution and Ethyl Alcohol 61% w/w) Surgical and Healthcare Personnel Hand Antiseptic with Moisturizers†</b> The only FDA NDA approved hand antiseptic with two proven active ingredients for both immediate and long-term action.	9216 (1.2 liter/ 40.6 fl. oz.)

† Flammable: Consult *Instructions for Use* for application instructions and dry time criteria.

## Intra-Op and Post-Op

### Creating a sterile surface.

Help reduce the risk for surgical site infections with clinically proven products that can withstand the challenges of surgery.



Product	Product #
<b>3M™ DuraPrep™ Surgical Solution (Iodine Povacrylex (0.7% available iodine) and Isopropyl Alcohol, 74% w/w) Patient Preoperative Skin Preparation†</b> Provides rapid bacterial kill, antimicrobial persistence and enhanced drape adhesion.	8630 (26ml)
<b>3M™ Ioban™ 2 Antimicrobial Incise Drape</b> (13" x 13")	6640EZ
<b>3M™ Ioban™ 2 Antimicrobial Incise Drape</b> (10.24" x 7.9")	6661EZ

### Protect the surgical incision and surrounding skin.

Maintain the optimal healing environment with your choice of post-surgical dressings. Choosing the appropriate closed-incision dressings and the right medical tape for surgical tube and device securement are important in helping reduce the risk of complications, such as Medical Adhesive Related Skin Injuries (MARSIs) and surgical site infections.

Product	Product #
<b>3M™ Cavilon™ No Sting Barrier Film‡</b> Forms a film barrier between skin and tape and/or adhesive products. Helps protect skin from friction and injury.	3343
<b>3M™ Tegaderm™ Absorbent Clear Acrylic Dressing</b> Transparent, waterproof, and absorbent dressing that provides a barrier* and allows for active monitoring (3-3/8" x 4-1/4" — Dressing pad size).	90802
<b>3M™ Prevena™ Peel and Place System Kit</b> Suitable for linear, non-intersecting surgical incisions up to 13cm in length.	PRE1101US (13cm)
<b>3M™ Tegaderm™ +Pad Film Dressing with Non-Adherent Pad</b> Post-operative dressing that is waterproof and provides a viral* and bacterial barrier (3-1/2" x 10").	3591
<b>3M™ Medipore™ +Pad Soft Cloth Adhesive Dressing</b> Breathable dressing that is conformable and easy to apply (1-3/4" x 6").	3570
<b>3M™ Steri-Strip™ Reinforced Adhesive Skin Closures</b> Adhesive skin closures may be used in skin approximation of lacerations and surgical incisions (1/2" x 4").	R1547
<b>3M™ Medipore™ H Soft Cloth Surgical Tape</b> Flexible securement. Ideal for dressings and added dressing pressure, IV lines and tubing (secondary securement) (1" x 2 yd).	2860S-1
<b>3M™ Micropore™ S Surgical Tape</b> Reliable adhesion and removes with minimal disruption of skin layers with minimal discomfort.	2770S

\**In vitro* testing shows that the transparent film provides a viral barrier from viruses 27nm in diameter or larger while the dressing remains intact without leakage.

‡ Flammable: Consult *Instructions for Use* for application instructions and dry time criteria.

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## Solutions Supported by Clinical Evidence and Guidelines



In a prospective, randomized trial, patients who received 3M™ Skin and Nasal Antiseptic as part of a comprehensive preoperative protocol had a lower overall rate of infection and a lower rate caused by *Staphylococcus Aureus* compared to mupirocin.<sup>5</sup>

— Phillips et al, *Infect Control Hosp Epidemiol* 2014



3M™ DuraPrep™ Surgical Solution is effective in eradicating common microorganisms found on the skin near the lumbar spine.<sup>6</sup>

— Savage et al, *J Bone Joint Surg Am* 2012



Ioban™ 2 Antimicrobial Incise Drapes were shown to be significantly more effective at reducing microbial contamination vs. using no drape ( $p=.031$ ) in orthopedic surgeries.<sup>7</sup>

— Rezapoor et al, *J Arthroplasty* 2018



SSI risk can be reduced by maintaining intraoperative normothermia. Preoperative warming is recommended.<sup>1</sup>

— Ban et al, *J Am Coll Surg* 2017

<sup>1</sup> Ban KA, Minei JP, Laronga C, et al. American College of Surgeons and Surgical Infection Society: Surgical Site Infection Guidelines, 2016 Update. *J Am Coll Surg*. 2017; 224: 59–74.

<sup>2</sup> Melling AC, Ali B, Scott EM, Leaper DJ. Effects of preoperative warming on the incidence of wound infection after clean surgery: a randomised controlled trial. *Lancet*. 2001; 358(9285): 876–80.

<sup>3</sup> Mermel, L. A. (2017). Short-term peripheral venous catheter-related bloodstream infections: a systematic review. *Clinical Infectious Diseases*, 65(10), 1757–1762.

<sup>4</sup> 3M Study EM-05-011100. The clinical significance of *in vitro* data is unknown.

<sup>5</sup> Phillips M, Rosenberg A, Shopsin B, et al. Preventing surgical site infections: A randomized, open-label trial of nasal mupirocin ointment and nasal povidone-iodine solution. *Infect Control Hosp Epidemiol*. 2014; 35: 826–32.

<sup>6</sup> Savage JW, Weatherford BM, Sugrue PA, et al. Efficacy of surgical preparation solutions in lumbar spine surgery. *J Bone Joint Surg Am*. 2012; 94(6): 490–94.

<sup>7</sup> Rezapoor M, Tan TL, Maltenfort MG, Parvizi J. Incise draping reduces the rate of contamination of the surgical site during hip surgery: a prospective, randomized trial. *J Arthroplasty*. 2018; 33: 1891–5.

## 3M<sup>SM</sup> Health Care Academy

3M<sup>SM</sup> Health Care Academy offers access to hundreds of free online continuing education courses for medical professionals, many with continuing education credit. This education resource offers access to educational content dedicated to helping clinicians focus on deepening expertise and improving patient care.

**For more information visit: [3M.com/MedicalEducation](https://www.3M.com/MedicalEducation)**

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- **Contact your 3M Account Manager**
- **Call the 3M Health Care helpline at 1.800.228.3957**
- **Visit [3M.com/ASCSolutions](https://www.3M.com/ASCSolutions)**



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**NOTE: Specific instructions, contraindications, warnings, precautions, and safety information exist for these products and therapies, some of which may be Rx only. Please consult a clinician and product instructions for use prior to application. This material is intended for healthcare professionals.**

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