



3M Surgical Solutions

Solutions to help Reduce the Risk of Surgical Site Infections

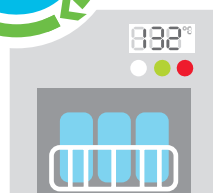
Orthopedics and Sports Medicine

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.



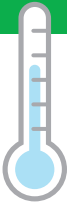
Product	Product #
3M™ Attest™ Super Rapid 5 Steam-Plus Challenge Pack* for 132°C (270°F) 4 Minute and 135°C (275°F) 3 Minute dynamic-air-removal steam sterilization cycles (Meets ST79 AAMI Guideline)	41482V
3M™ Attest™ Super Rapid Readout Biological Indicator* Singles	1492V (Steam) 1295 (VH2O2)
3M™ Attest™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

*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.

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.^{1,2} 3M Bair Hugger normothermia system is used **pre, intra and post-operatively**.



Product	Product #
3M™ Bair Hugger™ Plus Warming Gown Can be used throughout the perioperative process.	81002
3M™ Bair Hugger™ Warming Unit Use together with a Bair Hugger blanket or gown to help prevent inadvertent perioperative hypothermia.	67500 77500
3M™ Bair Hugger™ Temperature Monitoring System Used pre, intra and post-operatively to non-invasively monitor the patient's core body temperature.	36000 37000
3M™ Ranger™ Blood/Fluid Warming System Smart, intuitive dry heat technology safely and effectively warms blood and fluid at KVO up to 30,000ml/hr.	24500
3M™ Red Dot™ Foam Monitoring Electrode Monitor patient ECG.	2228

Avoid complications with IV catheter care.

Catheters may be responsible for a significant number of catheter-related bloodstream infections.³



Product	Product #
3M™ Tegaderm™ CHG I.V. Securement Dressing* The only transparent dressing proven to reduce catheter-related bloodstream infection and vascular catheter colonization (3-3/8" x 2-3/4").	1660
3M™ Tegaderm™ Transparent Film Dressing** Suitable for IV catheter sites and acute wounds (2-3/8" x 2-3/4").	1624W
3M™ Curox Jet™ Disinfecting Cap for Needleless Connectors Intended for use on needleless connectors as a disinfecting cleaner prior to IV access and acts as a cover between line accesses.	CFJ1-270

*The safety and effectiveness of 3M™ Tegaderm™ CHG I.V. Securement Dressing has not been established in children under 18 years of age.
***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.

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 #
3M™ Skin and Nasal Antiseptic (Povidone-Iodine Solution 5% w/w [0.5% available iodine] USP) 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. ⁴	192401
3M™ Avagard™ (Chlorhexidine Gluconate 1% Solution and Ethyl Alcohol 61% w/w) Surgical and Healthcare Personnel Hand Antiseptic with Moisturizers† The only FDA NDA approved hand antiseptic with two proven active ingredients for both immediate and long-term action.	9216 (1.2 liter)
3M™ Surgical Clipper Professional and 3M™ Surgical Clipper Professional Blade 3M™ Surgical Clipper Professional combines superior design and performance to help reduce the risk of infection, streamline workflow and promote a positive perioperative experience for your staff and patients. The 3M™ Surgical Clipper Blade helps prevent skin from being pulled into the cutting blade. (Level 1 recommendation, AORN, 2017) ⁵	9681 Clipper 9680 Blade

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

Additional 3M Medical product options and sizes are available. Visit 3M.com/Medical for more information.

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 #
3M™ DuraPrep™ Surgical Solution (Iodine Povacrylex (0.7% available iodine) and Isopropyl Alcohol, 74% w/w) Patient Preoperative Skin Preparation† Provides rapid bacterial kill, antimicrobial persistence and increased drape adhesion.	8630 (26ml)
3M™ Ioban™ 2 Antimicrobial Incise Drape Ideal for knees and shoulders (23" x 17").	6650EZ
3M™ Ioban™ 2 Antimicrobial Incise Drape Ideal for ankles and wrists (13" x 13").	6640EZ
3M™ Ioban™ 2 Antimicrobial Incise Drape Ideal for knees and shoulders (23" x 23").	6648EZ
3M™ Ioban™ 2 Antimicrobial Incise Drape Isolation drape with Ioban™ 2 incise film and pouch (overall size 129" x 100" incise area 27" x 12"), ideal for hip cases with C-arm.	6619
3M™ Ioban™ 2 Antimicrobial Incise Drape Ideal for spine and single-user application (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 (MARSI) and surgical site infections.



Product	Product #
3M™ Cavilon™ No Sting Barrier Film† Forms a film barrier between skin and tape and/or adhesive products. Helps protect at-risk skin from friction and injury.	3343
3M™ Tegaderm™ Absorbent Clear Acrylic Dressing Transparent, waterproof, and absorbent dressing that provides a barrier* and allows for active monitoring (1-3/4" x 8" — Dressing pad size).	90815
3M™ Prevena™ Peel and Place System Kit Suitable for linear, non-intersecting surgical incisions up to 13cm or 20cm in length.	PRE1101US (13cm) PRE1001US (20cm)
3M™ Tegaderm™ Transparent Film Dressing* (4" x 4-3/4")	1626W
3M™ Tegaderm™ +Pad Film Dressing with Non-Adherent Pad Post-operative dressing that is waterproof and provides a viral* and bacterial barrier.	3591
3M™ Steri-Strip™ Reinforced Adhesive Skin Closures Adhesive skin closure devices may be used in skin approximation of lacerations and surgical incisions (1/2" x 4").	R1547
3M™ Medipore™ H Soft Cloth Surgical Tape Soft cloth, conformable tape to maintain skin integrity, multi-directional stretch, perforated and easy to tear.	2864S
3M™ Micropore™ S Surgical Tape 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.

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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.⁶

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



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.⁷

— Rezapoor et al, *J Arthroplasty* 2018



SSI risk can be reduced by maintaining intraoperative normothermia. Preoperative warming is recommended.¹

— Ban et al, *J Am Coll Surg* 2017



Negative incision therapy pressure therapy for total knee arthroplasty and total hip arthroplasty in a comprehensive patient population reduced overall incidence of complications.⁸

— Redfern et al, *The Journal of Arthroplasty* 2017

¹ 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.

² 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.

³ Mermel, L. (2017). Short-term peripheral venous catheters related blood stream infections: a systematic review. *Clinical Infectious Disease*. 65(10) 1757–1762.

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

⁵ AORN. Guidelines for Perioperative Practice 2019. Denver, CO: Association of Perioperative Registered Nurses (AORN); 2019: 585–586.

⁶ Phillips M, Rosenberg A, Shopsis 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.

⁷ 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.

⁸ Redfern RE, Cameron-Ruetz C, et al. Closed Incision Negative Pressure Therapy Effects on Postoperative Infection and Surgical Site Complication After Total Hip and Knee Arthroplasty. *The Journal of Arthroplasty*. 2017; 33:333–3339.

3MSM Health Care Academy

3MSM 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)

To learn how 3M can help you minimize the risk of costly complications:

- **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.

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