



The **OR** expertise you can trust.

Setting the standard of care yesterday, today and tomorrow.



3M Infection Prevention Solutions for the OR





Enhancing the perioperative experience, from pre-op to intra-op



to post-op.

3M Infection Prevention Solutions for the OR

As a trusted global leader, 3M Infection Prevention has fundamentally laid the foundation for infection prevention in the OR: from pre-op to intra-op to post-op. Backed by the broadest portfolio of perioperative solutions, 3M collaborates with you to help your facility manage SSI-associated risk factors, improve patient and staff safety, and manage costs.

Pre-Op

Intra-Op

Post-Op

Hand Hygiene

Challenge

Hands are a major source of cross-contamination in healthcare facilities.

Standard of Excellence

If hands are not visibly soiled, use an alcohol-based hand rub for routinely decontaminating hands.

Source: Category 1A CDC Guideline for Hand Hygiene in Health-Care Settings, 2002.

OR Solution

Use effective hand antiseptics to prevent the transfer of microorganisms.

3M™ Avagard™ D (Ethyl Alcohol 61% w/w) Instant Hand Antiseptic with Moisturizers

3M™ Avagard™ Foaming (Ethyl Alcohol 70% v/v) Instant Hand Antiseptic



Pre-Op

Intra-Op

Post-Op

Patient Warming

Challenge

Inadvertent perioperative hypothermia can lead to additional surgical complications.

Standard of Excellence

Hypothermia presents a constant challenge for perioperative registered nurses because many surgical patients are at risk for unplanned hypothermia... Interventions should be implemented to prevent unplanned hypothermia.

AORN, Recommended Practices for the Prevention of Unplanned Perioperative Hypothermia.

OR Solution

Reduce surgical complications through the continuous monitoring of core body temperature and the maintenance of normothermia.

- 3M™ Bair Paws™ Patient Warming Gowns
- 3M™ Bair Hugger™ Blankets
- 3M™ SpotOn™ Temperature Monitoring System
- 3M™ Ranger™ Blood and Fluid Warming Systems



Pre-Op

Intra-Op

Post-Op

Sterilization Monitoring

Challenge

Non-sterile instruments and supplies increase the risk of SSIs.

Standard of Excellence

Biological indicators (BIs) should be used weekly, but preferably daily, for routine sterilizer efficacy testing and should be used in every load containing implants.

Source: ANSI/AAMI ST79:2010&A1:2010&A2:2011&A3:2012.

OR Solution

Ensure that all equipment, instrumentation and supplies are free of viable microbes.

3M™ Sterilization Assurance Monitoring Products



Pre-Op

Intra-Op

Post-Op

Reducing Bacteria in the Nares

Challenge

Nasal carriage of *S. aureus* and MRSA is directly linked to increased risk of SSIs.

Standard of Excellence

Emerging practice is to reduce bacterial counts in the nares.

OR Solution

Reduce bacteria in the nares to manage the risk of infection.

3M™ Skin and Nasal Antiseptic
(Povidone-Iodine Solution 5% w/w
[0.5% available iodine] USP)
Patient Preoperative Skin Preparation



Pre-Op

Intra-Op

Post-Op

Hair Removal

Challenge

Shaving patient hair with a razor increases the risk of nicks and cuts.

Standard of Excellence

Remove hair immediately before the operation, preferably with electric clippers.

Source: Category 1A CDC Guideline for the Prevention of Surgical Site Infection, 1999.

OR Solution

Maintain skin integrity with preoperative hair clipping, clinically shown to lower infection rates when compared with shaving.

3M™ Surgical Clippers



Pre-Op

Intra-Op

Post-Op

Pre-Op Patient Skin Cleansing

Challenge

The patient's own endogenous flora is a leading cause of SSIs.

Standard of Excellence

To gain maximum antiseptic effect of chlorhexidine, it must be allowed to dry completely and not be washed off.

Source: SHEA Compendium of Strategies to Prevent Surgical Site Infections in Acute Care Hospitals, 2008.

OR Solution

Reduce the number of microorganisms on the patient to lower the risk of subsequent contamination of the surgical wound.

NOSE TO TOES™ Nasal antiseptis,
oral cleansing and skin antiseptis
prior to surgery



NOSE TO TOES AVAILABLE EXCLUSIVELY THROUGH SAGE PRODUCTS INC.

Personal Protection

Challenge

Blood or fluid sprays and splashes during procedures pose a risk to surgical personnel.

Standard of Excellence

Wearing masks, eye protection, and face shields in specified circumstances when blood or body fluid exposures are likely to occur is mandated by the OSHA Bloodborne Pathogens Standard.

Source: OSHA Final Rule, 29 CFR Part 1910:1030 Federal Register Revised 2001 CFR 66 2001.

OR Solution

Wear masks and eye protection that will shield splashes of blood or body fluid.

3M™ Surgical Masks



Pre-Op

Intra-Op

Post-Op

Patient Monitoring

Challenge

Contaminated reusable leadwires can result in cross-contamination and the possible spread of infection.

Standard of Excellence

Emerging practice is to use disposable leadwires to help prevent cross-contamination and spread of infection among patients.

Source: Brown D. Disposable vs Reusable Electrocardiography Leads in Development of and Cross-contamination by Resistant Bacteria. *Critical Care Nurse*. 2011;31[3]:62-68.

OR Solution

Reduce the risk of cross contamination with single-use medical supplies.

3M™ Red Dot™ Monitoring Electrodes and Disposable Leadwires



Pre-Op

Intra-Op

Post-Op

Surgical Hand Antisepsis

Challenge

Surgical gloves can be compromised during surgery, providing a source of contamination.

Standard of Excellence

An alcohol and chlorhexidine product that is fast-drying and has a residual effect is preferred.

Source: AORN Perioperative Standards and Recommended Practices, 2011 Edition: RP for Hand Hygiene in the Perioperative Setting.

OR Solution

Prior to gowning and gloving, reduce transient and resident flora and inhibit rapid regrowth of microorganisms while maintaining skin health and integrity.

3M™ Avagard™ (Chlorhexidine Gluconate 1% Solution and Ethyl Alcohol 61% w/w) Surgical and Healthcare Personnel Hand Antiseptic with Moisturizers



Patient Skin Prep

Challenge

The patient's own endogenous flora is a leading cause of SSIs.

Standard of Excellence

Preoperatively use solutions that contain isopropyl alcohol as skin antiseptic preparation until other alternatives have been proven safe and effective, and allow appropriate drying time per product guidelines.

Source: NQF (National Quality Forum), Safe Practice #22 on Surgical Site Infections (SSIs), NQF 2010.

OR Solution

Reduce microbial counts on the skin and inhibit rapid regrowth of microorganisms.

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



Draping

Challenge

Blood and fluid strikethroughs can lead to contamination of the surgical field.

Standard of Excellence

Use surgical drapes that are effective barriers when wet (i.e., materials that resist liquid penetration).

Source: Category 1B CDC Guideline for the Prevention of Surgical Site Infection, 1999.

OR Solution

Minimize the passage of microorganisms between non-sterile and sterile areas with surgical drapes that establish an aseptic barrier.

3M™ Steri-Drape™ Surgical Drapes



Pre-Op

Intra-Op

Post-Op

Sterile Surface

Challenge

Bacteria remaining after the prep can be carried into the wound on gloves and instruments.

Standard of Excellence

In an *in vitro* study, an antimicrobial incise drape demonstrated that it is effective in reducing microorganisms.

Source: An In Vitro Time-Kill Study to Compare the Antimicrobial Activity of Three Antimicrobial Surgical Incise Drape, 19th Annual SHEA, 2009.

OR Solution

Using an incise drape creates a sterile surface to the wound edge.

3M™ Ioban™ 2 Antimicrobial Incise Drapes



Pre-Op

Intra-Op

Post-Op

Cover/Dressing

Challenge

Until the wound is sealed, there is a risk of wound contamination.

Standard of Excellence

Protect the wound with a sterile dressing for 24 to 48 hours postoperatively for an incision that has been closed primarily.

Source: Category 1B.

OR Solution

Create an optimal environment for wound healing and provide a barrier against outside contamination.

3M™ Tegaderm™ +Pad Film Dressing with Non-Adherent Pad



Pre-Op

Intra-Op

Post-Op

Environmental Surfaces Hygiene Monitoring

Challenge

Transmission of multidrug-resistant organisms [MRDO] and other pathogens threatens the healthcare environment.

Standard of Excellence

Monitoring for adherence to recommended environmental cleaning practices is an important determinant for success in controlling transmission of MDROs and other pathogens in the environment.

Source: HICPAC Guideline: Management of Multidrug-resistant Organisms in Healthcare.

OR Solution

Ensure a clean surgical environment by monitoring organic contaminants invisible to the eye.

3M™ Clean-Trace™ Hygiene Management System





3M Infection Prevention Solutions for

• Sterilization Monitoring

• Hand Hygiene

• Patient Warming

• Nasal Antiseptic

• Hair Removal

• Patient Skin Cleansing

• Personal Protection

• Hand Hygiene

• Patient Warming

• Patient Monitoring

• Surgical Hand Antisepsis

• Patient Skin Prep

• Draping

Pre-Op

Intra-Op



the OR

- Sterile Surface
- Skin Closures
- Cover/Dressing
- Patient Warming
- Patient Monitoring
- Hand Hygiene
- Hospital Hygiene

Post-Op

For more information about 3M Infection Prevention Solutions for the OR or other 3M Health Care products:

- Contact your local 3M sales representative
- Call the 3M Health Care Customer Helpline at 800-228-3957
- Visit 3M.com/infectionprevention



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