INTEGUSEAL®
Microbial Sealant

INTEGUSEAL®
A microbial barrier designed to reduce the risk of surgical site contamination by skin flora
THE PROBLEM

- Surgical site infections (SSIs) are defined as infections occurring up to 30 days after surgery (or up to one year after surgery in patients receiving implants) and affecting either the incision or deep tissue at the operation site. Despite improvements in prevention, SSIs remain a significant clinical problem as they are associated with substantial mortality and morbidity and impose severe demands on healthcare resources.

- SSIs account for 15% of all healthcare associated infections and are estimated to at least double the length of hospital stay (LOS).

- Data from the Health Protection Agency shows that the postoperative LOS is longer for patients with SSI, and when adjusted for other factors influencing LOS, the extra LOS due to SSI ranges from 3.3 days for abdominal hysterectomy to 21 days for limb amputation, and at least 9 days for the other surgical categories.

PRODUCT DESCRIPTION

- INTEGUSEAL* Microbial Sealant is a sterile film-forming cyanoacrylate-based product provided in a ready-to-use applicator. INTEGUSEAL* Microbial Sealant is intended to be applied on the skin over commonly used surgical skin preparation products prior to a surgical incision. Upon polymerization, INTEGUSEAL* Microbial Sealant bonds to the skin and immobilises the bacteria which survive the application of antimicrobial surgical skin preparation products.

- Following surgery, INTEGUSEAL* Microbial Sealant naturally sloughs off the skin over the course of a few days.

- INTEGUSEAL* Microbial Sealant is contained within a glass ampule or ampules housed within a nylon applicator. Upon use, the glass ampule(s) is (are) broken by pushing the rear of the plastic applicator forward and the product is applied to the skin of the patient.

- The mode of action, mechanical immobilisation, achieves the intended use of reducing the risk of skin flora contamination during a surgical procedure.

- Unique mechanical mode of action does not promote bacterial resistance.

EFFECTIVENESS

- INTEGUSEAL* Microbial Sealant significantly reduced the amount of MRSA recovered in an in vitro surgical incision model by 99.9%, S. epidermidis by 99.5% and E. coli by 96.6%. (p ≤ 0.05).

- Able to reduce post-operative surgical site infections up to 23.4%.

- Effective against common and dangerous skin pathogens

  Immobilizes bacteria such as MRSA, S. epidermidis and E. coli

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* CFU = Colony Forming Units (of bacteria)
SAFE AND CONVENIENT IN CLINICAL CIRCUMSTANCES

Studies show INTEGUSEAL* Microbial Sealant compatibility with common surgical materials and techniques:
- Electrocautery
- Defibrillation
- Surgical incise drapes
- Surgical preps
- Sutures
- Staples
- Wound adhesives

MEETS STRINGENT OR AND CLINICAL SAFETY GUIDELINES
- Nonflammable
- Latex-free
- Non-irritating
- Non-cytotoxic
- Not a skin sensitizer
- Non-mutagenic / Non-clastogenic
- No acute systemic toxicity

PREP, SEAL AND DRAPE TO PROTECT THE SURGICAL SITE IN 3 EASY STEPS

1. PREP: INTEGUSEAL* Microbial Sealant is compatible with most commonly-used prep solutions. Always allow prep to dry before applying INTEGUSEAL* Microbial Sealant.

2. SEAL: INTEGUSEAL* Microbial Sealant is easily applied to the patient’s skin. The ergonomic, single-use applicator paints an even, continuous layer over exposed skin.

3. DRAPE: Allow INTEGUSEAL* Microbial Sealant to dry –in as little as 2 minutes– and then apply drapes as normal. Can be used with regular fenestrated or incise drapes.

AVAILABILITY

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<thead>
<tr>
<th>PRODUCT CODE</th>
<th>DESCRIPTION</th>
<th>POTENTIAL INDICATIONS</th>
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</thead>
<tbody>
<tr>
<td>33736 – IS100</td>
<td>INTEGUSEAL* Microbial sealant, coverage (approx): 25 x 25 cm</td>
<td>Cardiothoracic surgery, spinal surgery, orthopaedic surgery, C-sections, ...</td>
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<tr>
<td>33737 – IS200</td>
<td>INTEGUSEAL* Microbial sealant, coverage (approx): 50 x 25 cm</td>
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References:


Halyard Health is a medical technology company focused on preventing infection, eliminating pain and speeding recovery. Just as a halyard fuels forward movement, Halyard Health’s clinically-superior products and remarkable service help to advance health and healthcare worldwide.

For more information, please contact your Halyard Customer Care Team:

From UK & IE:
tel: 0800 917 65 85 – fax: 0800 169 02 35
customerservice.uk.ie@hyh.com

From other countries:
tel: +32 2 700 68 51 – fax: +32 2 711 26 91
customerservice.export@hyh.com

www.halyardhealth.co.uk

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