

## INTEGUSEAL\* Microbial Sealant: A first-in-class microbial barrier designed to seal and immobilise bacteria.

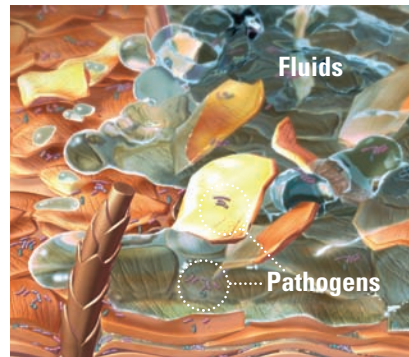
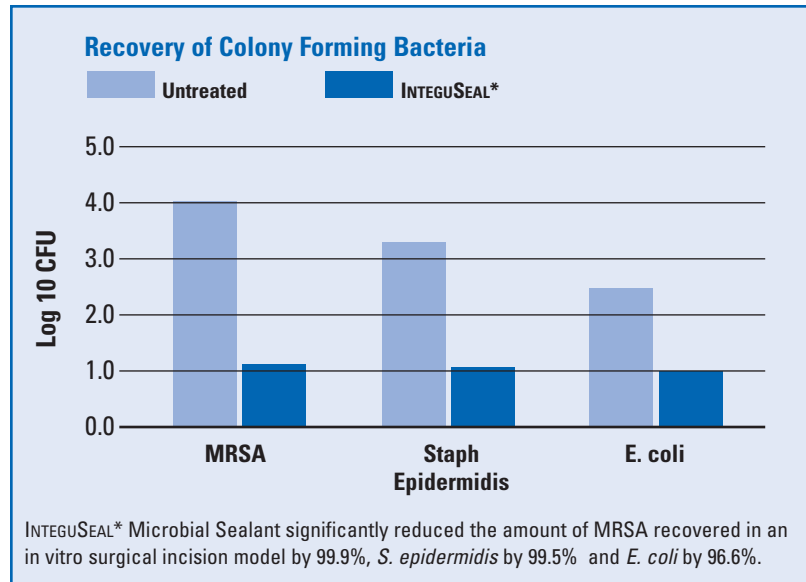
### The Problem

Despite refined surgical techniques, environmental changes in the OR, and the use of preventive antibiotics, infection at the surgical site remains the second most adverse event occurring to hospitalised patients and a major source of morbidity following operating procedures<sup>1</sup>.

### Endogenous skin pathogens remain the #1 cause of SSI.

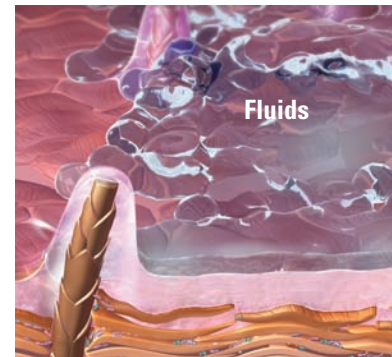
Skin flora wound contamination is a key factor in the development of surgical site infections<sup>2</sup>. Because skin can never be completely sterilised<sup>3</sup>, when skin is incised, the exposed tissues are at risk for contamination with endogenous skin flora.

Effective against common and dangerous skin pathogens<sup>6</sup>  
Immobilizes bacteria such as MRSA, *S. epidermidis* and *E.coli*



### Untreated Skin

On untreated skin (even if prepped), endogenous pathogens can be transferred into the surgical incision by irrigation fluids, gloves, instruments, sponges or implants.



### Treated Skin

INTEGUSEAL\* Microbial Sealant forms a protective layer that locks down bacteria residing deep in the skin and those surviving typical pre-operative prepping (including MRSA, *S. epidermis*, and *E. coli*)<sup>4</sup>.

### The Solution

INTEGUSEAL\* Microbial sealant's unique mechanism of action locks out bacteria without promoting bacterial resistance<sup>4</sup>. Intended for use after typical skin preparation and prior to incision, INTEGUSEAL\* Sealant is quickly applied to the patient's skin, regardless of its contour, hair-content, or amount or type of flora present.

- Safe, time-tested cyanoacrylate technology.
- Breathable: Permits normal skin transpiration
- Compatible with common surgical techniques
- Need not be removed for skin closure; wears off naturally in a few days
- Can be used with a variety of preps and incise drapes<sup>4</sup>
- Available in two sizes



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**Healthcare-Associated Infection Solutions**



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**Treated**

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- 1 Fry D.E. Surgical Site Infection: Pathogenesis and Prevention. Medscape.com; accessed Aug 3, 2005.
- 2 Hagen K.S., Treston-Aurand J, "A comparison of two skin preps used in cardiac surgical procedures." AORN J 1995. 62(3):393-402
- 3 Gillian D.L., Nelson C.L. "Comparison of a one-step iodophor skin preparation versus traditional preparation in total joint surgery." Clin Orthop Relat Res 1990. (250):258-269.
- 4 Data on File, Kimberly-Clark Health Care.

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**Untreated**

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