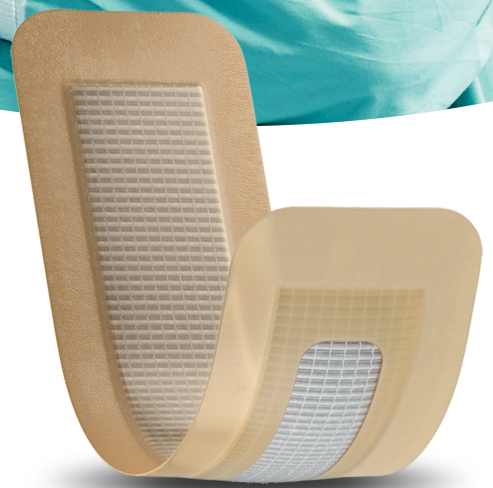




Aquacel™ Ag

Surgical



Prevention of surgical site infection from your post-operative dressing

AQUACEL® Ag Surgical™ is the **only** post-operative dressing in the UK market combining Hydrofiber™ Technology and Ionic Silver.

Pioneered by surgeons for surgeons.



Surgical Site Complications

An ongoing problem

Despite increasing infection control practices and advanced preventative steps, like ventilation, surgical technique and sterilisation methods, post-operative Surgical Site Complications (SSCs) have a huge impact across all surgeries and remain a significant cause of morbidity, prolonged hospitalisation and death.¹



The best way to treat SSCs is to prevent them

Avoiding healthcare-associated conditions such as surgical site infections, medical errors, and other preventable complications are an increasing focus within our health systems.^{2,3}

Increased awareness has contributed to greater scrutiny from regulators, purchasers, and the public.⁴

The right post-op dressing at the right time reduces complications and plays an integral role in successful recovery.

Consequences of wound complications

Wound complications are one of the major sources of morbidity and can prolong the inpatient stay or lead to re-admission.

Recognising the potential for Surgical Site Infection (SSI) and complications may be the most important issue to address when discharging a post-surgical patient.⁵

International Delphi Study on Wound Closure and Incision Management in Joint Arthroplasty (2024)^{6,7}

Consensus Statements:

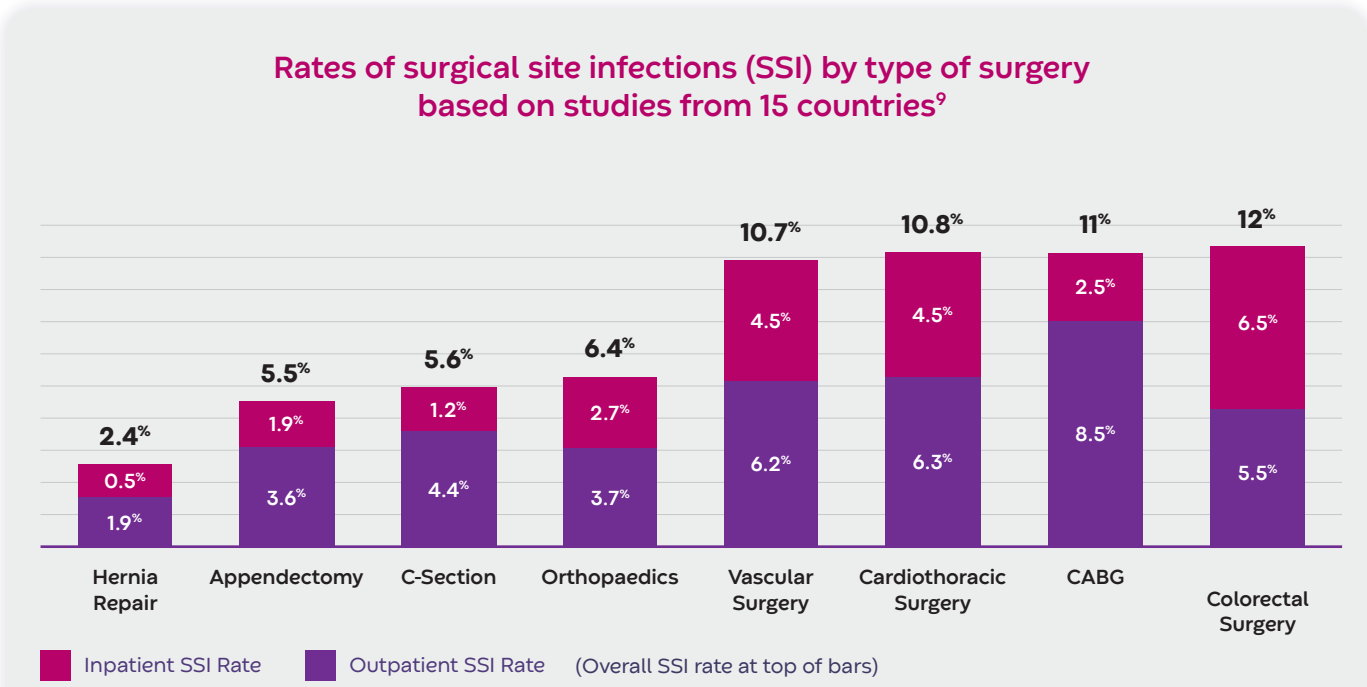
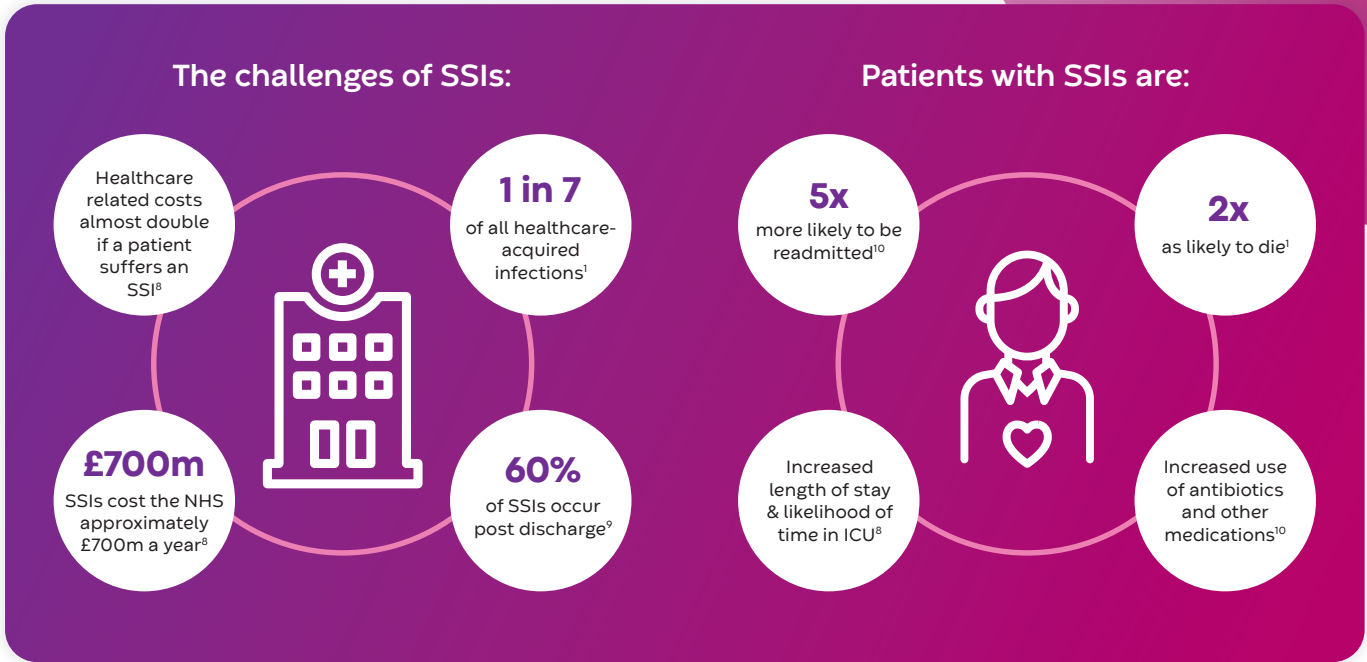
Total Knee Arthroplasty – “**Silver-impregnated dressings** provide lower wound complications, decreased infections, fewer dressing changes compared to standard dressings”

Total Hip Arthroplasty – “**Occlusive silver-impregnated dressings** lead to a longer duration until the first dressing change compared to conventional dressings, with fewer dressings changes and lowered need for postoperative intervention”

If we can't solve the problem of biofilms with antibiotics, we need an earlier intervention to reduce bioburden.

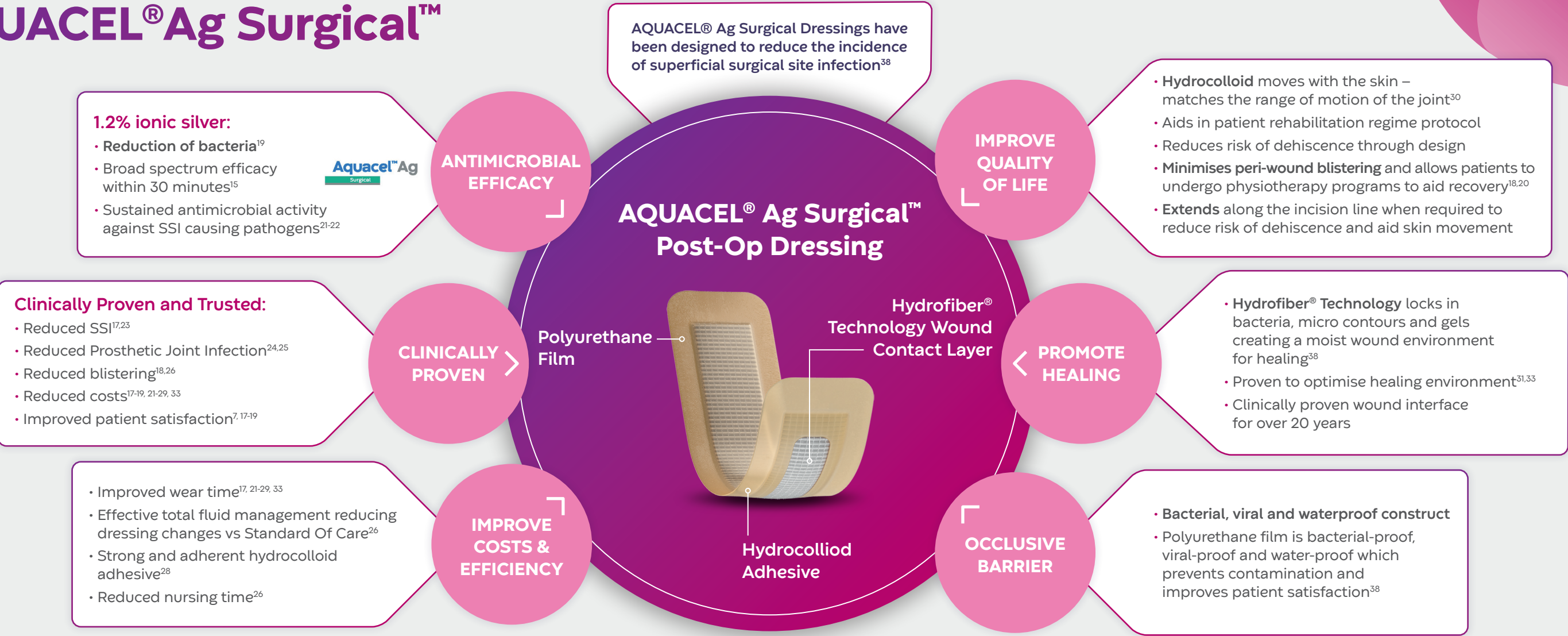
Challenges of Surgical Wound Care

Surgical site complications result in serious medical and financial burdens for your hospital and your patients.



SSIs occur across ALL surgical specialties

Why you need AQUACEL® Ag Surgical™

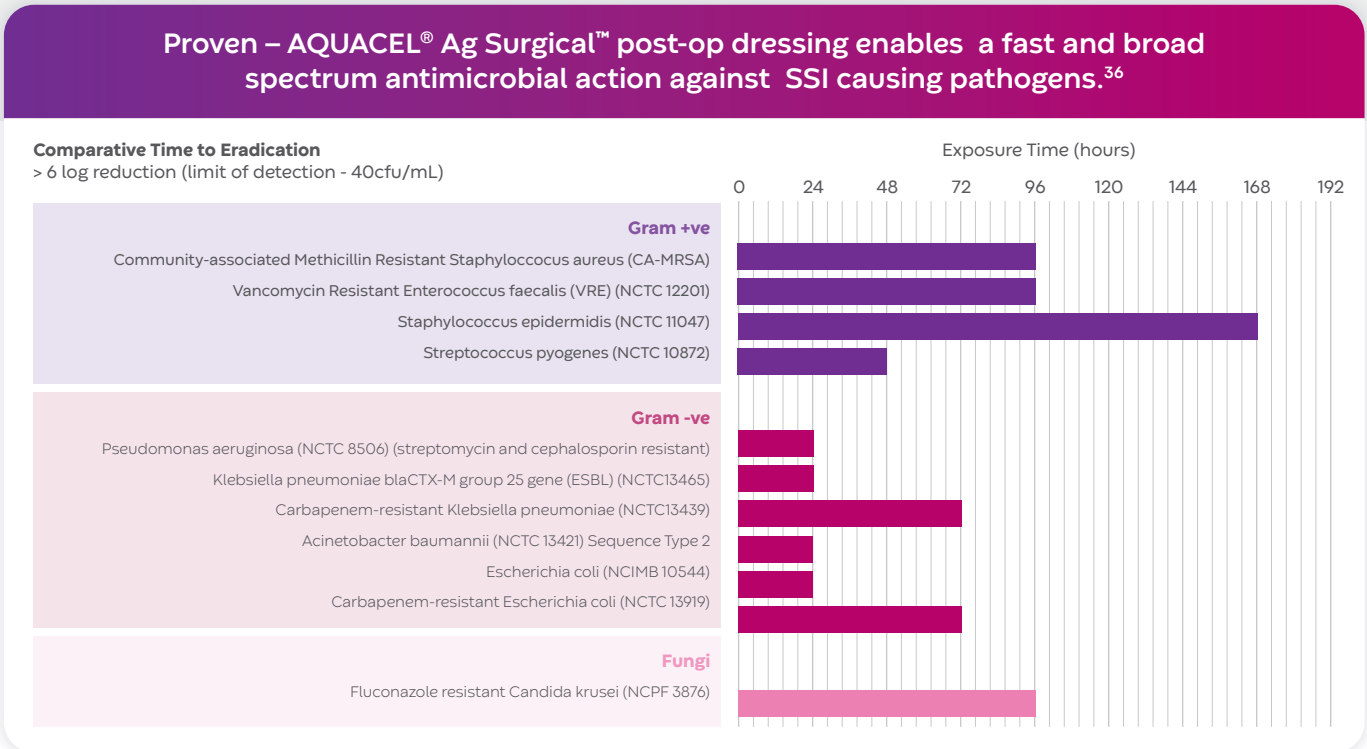


AQUACEL® Surgical and AQUACEL® Ag Surgical post-op dressings reduces the risk of surgical site complications and supports existing SSC reduction care prevention measures.¹⁷

Carbapenem-resistant Enterobacteriaceae

Biofilm of antibiotic resistant bacteria

Bacteria Staphylococcus aureus



Why you need AQUACEL® Ag Surgical™

AQUACEL® Ag Surgical™ helps improve outcomes by creating an optimum healing environment and providing fast broad-spectrum antimicrobial activity against SSI causing pathogens by utilising ionic silver.

The ionic silver kills broad spectrum pathogens within 30 minutes. You can have the confidence this is occurring whilst your patient is in recovery.¹⁵

When AQUACEL® Ag meets wound fluid, ionic silver is released both into the dressing and wound-dressing interface. No silver is “dumped” into the incision.

Most of the antimicrobial action will take place within the dressing, acting on microbes that are drawn into the fibres and physically immobilised by unique gelling properties of Hydrofiber® Technology.¹⁶



Protect your patients

Enhance patient satisfaction and comfort through:

- Easier self-care
- Less pain at removal¹⁷
- Less frequent need for dressing changes¹⁸
- Ability to shower without worry (if directed by healthcare professional)

Your post-op dressing selection can be the difference between healthy healing and an infected surgical site



Ionic Silver destroying bacteria

The antimicrobial silver is made constantly available by an equilibrium action that is driven by the continual uptake of silver ions by microbes and proteins. This silver activity is sustained and lasts for the dressing wear time.³⁴

Proven to support the healing process

When Hydrofiber® Technology is used, a layer of fibrin builds up between the dressing and the wound, but fibrin absorption by the dressing is minimal. Therefore, tissue ingrowth does not occur, resulting in pain free removal and greater patient satisfaction.

Hydrofiber® Technology is proven to demonstrate limiting levels of inflammation, which improves the healing process, resulting in good scar quality.³⁵

The Hydrofiber® technology in AQUACEL® Ag Surgical Dressings has the fluid handling capability equivalent to 4 layers of AQUACEL® dressing.³⁸

Support antibiotic stewardship

Driven by an increase in microbial antibiotic resistance and the diminishing prospects of developing new antibiotics³⁷, topical antimicrobials are being increasingly used in wound care. AQUACEL® Ag Surgical is a novel approach supporting antimicrobial stewardship practices.

Antimicrobial efficacy of AQUACEL® Ag Surgical™

Silver containing AQUACEL® dressings have been **tested against 61 different species and 185 different strains of micro-organisms**, according to 25 peer reviewed publications, 1 poster and 3 pieces of data on file.³⁶ Some of these pathogens are outlined in the table below;

TYPE OF SURGERY ¹¹	COMMON PATHOGENS CAUSING SSIS
Placement of graft, prosthesis or implant	Staphylococcus aureus; CoNS
Cardiac	S. aureus; CoNS
Neurosurgery	S. aureus; CoNS
Breast	S. aureus; CoNS
Ophthalmic	S. aureus; CoNS; streptococci; Gram-negative bacilli
Orthopaedic	S. aureus; CoNS; Gram-negative bacilli
Non-cardiothoracic	S. aureus; CoNS; streptococci; pneumoniae; Gram-negative bacilli
Vascular	S. aureus; CoNS
Appendectomy	Gram-negative bacilli; anaerobes
Biliary tract	Gram-negative bacilli; anaerobes
Colorectal	Gram-negative bacilli; anaerobes
Gastroduodenal	Gram-negative bacilli; streptococci; oropharyngeal anaerobes (e.g. peptostreptococci)
Head and neck	S. aureus; CoNS; streptococci; oropharyngeal anaerobes (e.g. peptostreptococci)
Obstetric and gynaecological	S. aureus; CoNS; enterococci; Group B streptococci; anaerobes
Urological	Gram-negative bacilli

^a CoNS, coagulase-negative staphylococci.

ESKAPE pathogens



Polymicrobes located on skin

These 6 pathogens heighten the need for alternative therapies to be used instead of antibiotics.¹⁴

AQUACEL® Ag Surgical is evidenced to be effective against **ALL ESKAPE pathogens**.¹⁴

All 185 strains of microorganisms tested are susceptible to AQUACEL® Ag Surgical³⁶

- **Gram-negative** bacteria, e.g., P. aeruginosa, K. pneumoniae, which do not take up the Gram stain as they lack a thick peptidoglycan layer in the cell wall, rapidly susceptible to ionic silver.
- **Gram-positive** bacteria, e.g., MRSA, VRE, S. epidermidis, have thick peptidoglycan in their cell wall, which ionic silver reacts with, but which may slow penetration of Ag⁺ into the cell.¹⁵

To date, no wound pathogen offered to Convatec by public health laboratories globally have shown resistance to silver-containing AQUACEL® dressings.³⁶

ESKAPE pathogens

Enterococcus faecium, Staphylococcus aureus, Klebsiella pneumoniae, Acinetobacter baumannii, Pseudomonas aeruginosa, and Enterobacter species.

These are the leading cause of nosocomial infections throughout the world. They can cause blood stream infections, pneumonia, surgical site infections and many other issues for patients. Most of them are multi-drug resistant isolates, which is one of the greatest challenges in clinical practice.¹⁴

Despite the introduction of several new antibiotics and antibiotic adjuvants, these organisms continue to represent major therapeutic challenges.³⁷

Ordering information

Cost effective infection prevention NHSSC cost vs PICO 7 (when clinically indicated)³⁹

PICO 7 10cm x 30cm – 1 week treatment cost*

= £130.00

Aquacel® Ag Surgical™ 10cm x 30cm – 1 week treatment cost

= £24.41

81%
Cost
saving

NICE MTG43) The analysis by surgery type showed that PICO was cost saving for colorectal, cardiothoracic and vascular surgery, **but was not cost saving for orthopaedic, obstetric and plastic/breast surgery.**³⁹

*economic model from NICE (1 pump & 2 dressing)

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Surgical

Dressing Size	Incisions Length	Total Fluid Management In-vitro (g/24hr)	Dressings Per box	Product Code	NHS Code
3.5" x 4" (9cm x 10cm)	1.5" (4cm)	21.7	10	412009	ELY341
3.5" x 6" (9cm x 15cm)	3.5" (9cm)	37.2	10	412010	ELY342
3.5" x 10" (9cm x 25cm)	6.5" (17cm)	62.0	10	412011	ELY343
3.5" x 12" (9cm x 30cm)	8.5" (22cm)	77.5	10	420670	ELY403
3.5" x 14" (9cm x 35cm)	10.5" (27cm)	93.0	10	412012	ELY344

To find out more about the ConvaTec portfolio or to arrange a visit from your local ConvaTec representative:

Call **0800 289 738 (UK)** or **1800 946 938 (ROI)**
www.convatec.co.uk

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