BOUND TO THE DRESSING SUBSTRATE WHICH ACTS AS A PHYSICAL BARRIER OF PROTECTION AGAINST OPPORTUNISTIC PATHOGENS INCLUDING MRSA.

BIOGUARD® is able to provide >5-log kill of pathogens within the dressing without adversely affecting wound cells, which could otherwise delay wound healing.1

Non-toxic antimicrobial activity
Fast acting and long lasting protection
A physical barrier against MRSA
Does not induce bacterial resistance

It’s Non-leaching:
BIOGUARD®'s cationic biocide, polyDADMAC, is bound to the dressing substrate. It does not leach, causing a zone of inhibition on the dressing, which can lead to resistance or toxicity issues to healthy cells.7

It’s Non-toxic:
BIOGUARD® is able to provide >5-log kill of pathogens within the dressing without adversely affecting wound cells, which could otherwise delay wound healing.1

It’s Non-resistant:
BIOGUARD®’s cationic biocide, polyDADMAC, has a high charge density and molecular weight - up to 100x larger than PHMB. It does not induce bacterial resistance.

Don’t just guard. BIOGUARD®

BIOGUARD® Barrier Dressings have a cationic biocide – polyDADMAC – bound to the dressing substrate which acts as a physical barrier of protection against a broad spectrum of opportunistic pathogens including MRSA.

A non-leaching, non-resistant, non-toxic barrier dressing.

STAND GUARD against opportunistic pathogens cost-effectively with BIOGUARD® Barrier Dressings.

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Have confidence in BIOGUARD® Barrier Dressings for your patient care and protection against opportunistic pathogens and wound infection.

Non-Adherent Dressings

Conforming Bandages

Large Gauze Roll

Gauze Sponges

Packing Strips

Non-Adherent Dressings

Post-Op/Island Dressings

Ready-Cut Gauze Burn Dressing

STAND GUARD

WOUND INFECTION, BY THE NUMBERS:

3 million patients per year are affected by HAIs - almost 100,000 result in death.3

33.7% of the total cost of HAIs is attributed to Surgical Site Infections (SSIs)4

2 out of 3 Surgical treatments of skin and dermal wound infections are the key procedures associated with the treatment of MRSA infections5

The average incremental cost of a SSI is $25,500 with an average LOS of 11.2 days6

The average incremental cost of a MRSA infection is $42,300 with an average LOS of 23 days7

6 In wound bacteria per 40 l/air is released with each dressing change increasing potential of cross contamination8

References:
1. In-house data.
3. Healthcare-Associated Methicillin Resistant Staphylococcus aureus (HA-MRSA); Centers for Disease Control and Prevention;www.cdc.gov/ncidod
5. Healthcare-Associated Methicillin Resistant Staphylococcus aureus (HA-MRSA); Centers for Disease Control and Prevention;www.cdc.gov/ncidod
6. Lawrence JC et al. Wound dressings and airborne dispersal of bacteria; Lancet 1992; 807, 2 out of 3:
When managing your patients’ wounds, the last thing you want to worry about is opportunistic pathogens causing infection and delaying wound healing. BIOGUARD® Barrier Dressings offer you broad spectrum barrier protection against opportunistic pathogens when managing your patients’ surgical incisions and wounds.

Through a patented manufacturing process, PolyDADMAC, an advanced cationic biocide, is bound to the dressing substrate providing a physical barrier of protection against opportunistic pathogens including MRSA.

Cationic Biocides

Cationic biocides are commonly used to kill pathogens. PolyDADMAC shares the same compound class of biocides used in other wound dressings such as PHMB (polyhexadimethenylbiguanide), but with two key differences:

- polyDADMAC is 10x larger than PHMB. The larger the molecule, the lower the chance of the pathogen developing resistance to the biocide.
- Unlike PHMB, which leaches from the dressing, polyDADMAC is intrinsically bound to the dressing substrate minimising the risk of leaching and toxicity issues to healthy cells – which can slow healing.

What about size?

Most causes of antimicrobial resistance occur when the active component enters into the cell of the pathogen. With a high molecular weight – up to 100x larger than PHMB – PolyDADMAC simply won’t be through holes of the damaged cell walls occur when the active component enters into the cell of the pathogen. With a high molecular weight – up to 100x larger than PHMB – PolyDADMAC simply won’t be through holes of the damaged cell walls.

As an advanced cationic biocide, PolyDADMAC is bound to the dressing substrate, minimizing the risk of resistance development, reducing the incidence of bacterial resistance and delaying wound healing.

The Importance of Non-Leaching for Healthy Healing

Leaching – For wounds that are either infected or critically colonized, bacterial control and having an active biocide in the wound environment is paramount. The main goal of wound healing is to prepare and protect the wound environment for healthy healing.

Non-Leaching – For wounds that are on-track for healthy healing, dressings should be non-toxic to healthy cells and should not leach into the wound. Dressings with an antimicrobial active bound to the dressing substrate, such as BIOGUARD®, should be considered.

Additional benefits include:
- Reduced exposure and discomfort during dressing change
- Reduced workload on the caregivers
- Exposed area is less likely to become colonized with contaminated gauze and better post-care uptake
- Reduced chance of adverse reactions such as pain
- Decreased frequency of dressing changes to daily
- Reduced bacterial colonization and contamination
- Reduced wound odor
- Frequency of dressing changes
- The burn unit staff was changing the dressings up to 3X per day. Even with these frequent dressing changes, there was continued evidence of bacterial fouling. (Figures 1 & 2)

Case 3 – Lower Extremity Graft Sites Managed with BIOGUARD® (Figures 3, 4 & 5)

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Additionally, the higher the charge density, the more likely the biocide effects will maintain their effectiveness in high levels of exudate or other bodily fluids.

Method of Action

Cationic biocides act through a physical mechanism of action. They attract bacterial cells and bind evenly to the cellular envelope and physically disrupt the cell wall structures causing the membrane to fragment, leading to cell death or cell lysis.

Additionally, the higher the charge density, the more likely the biocide effects will maintain their effectiveness in high levels of exudate or other bodily fluids.

These clinical results suggest that BIOGUARD® gauze bandages may prevent rapid bacterial growth in wounds that are heavily exudating wounds.

Adoption of antimicrobial gauze bandages for standard use in heavily exudating wounds

The proof is in the dressing.

BIOGUARD® Barrier Dressings offer the following benefits when managing exposed wounds:
- Minimal bacterial colonization
- No sign of bacterial resistance
- Non-toxic to healthy cells
- Reduced bacterial colonization
- Reduced bacterial spread
- Reduced bacterial growth
- Decreased frequency of dressing changes to daily
- Reduced bacterial colonization and contamination
- Reduced wound odor
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