

Balancing a Dynamic Wound Environment

WOUND BED PREPARATION

Moisture and bacterial management are commonly noted as key elements in preparing a wound bed for healing.

MOISTURE BALANCE

A moist environment helps to speed healing and promotes growth of new tissue.¹ Wound exudate is protein and cell rich fluid that is a source of neutrophils and macrophages that are designed to promote healing.²

BACTERIAL BALANCE

Most wounds are contaminated with some level of bacteria, which may not directly inhibit healing. However, when bacteria begin to replicate and form colonies, they may overwhelm the host defense which could potentially lead to delayed healing and infection.³

THE ROLE OF THE DRESSING

Wound dressings absorb exudate, blood and bacteria and create a moist environment away from the host immune system. While highly functional at providing these benefits, there is also potential that the dressings become an incubator for bacterial growth and increase the risk for cross

contamination of the wound.



KENDALL[™] AMD FOAM DRESSINGS ENGINEERED WITH A UNIQUE MODE OF ACTION:





Foam surface is designed for vertical wicking action.

Foam core for absorption and retention.

MICROSTRUCTURED OPEN CELL FOAM

A unique manufacturing process creates an open cell microstructure that has a highly absorptive wound contact surface and a dense core for retention.



Molecular structure of PHMB

PHMB ANTISEPTIC

Polyhexamethylene Biguanide (PHMB) is a highly effective yet safe antiseptic which has been commercially used for over 75 years. PHMB has a unique mode of action:

- Binds to bacterial phospholipids (outer) membrane
- Disrupted membrane allows cytoplasm to leak out
- Bacteria cells' protective layers disintegrate
- Bacterial cell collapses and dies leaving a skeleton
- Nothing is left behind to mutate or replicate

Kendall[™] AMD Foam Dressings

Kendall[™] AMD Antimicrobial Foam dressings have been developed to support your efforts in managing both moisture and bacterial balance. The dressing is an open cell polyurethane foam dressing and is impregnated with 0.5% Polyhexamethylene Biguanide (PHMB), a highly effective, low toxicity antiseptic. The dressings are effective against gram positive and gram negative bacteria. They also work against fungi and yeast. These novel dressings:

PROVIDE A BALANCED ENVIRONMENT

Supports a moist and bactericidal environment

EMPLOY A UNIQUE MODE OF ACTION

Foam absorbs wound fluid; PHMB binds to foam material and kills bacteria

ARE EFFECTIVE AGAINST PREVALENT BACTERIA

Effective against gram + and gram – bacteria including: MRSA, VRE, Pseudomonas and Acinetobacter baumannii

ARE EFFECTIVE FOR UP TO SEVEN DAYS

Proven effective against repeated contamination for up to seven days

ARE COST EFFECTIVE

Cost less than most antimicrobial treatments and silver dressings

HAVE NO KNOWN RESISTANCE

Have been commonly used for over 75 years

Kendall[™] AMD Foam Mode of Action

KENDALL[™] AMD FOAM DRESSINGS ARE IMPREGNATED WITH 0.5% PHMB, A HIGHLY EFFECTIVE, LOW TOXICITY ANTISEPTIC. AS THE FOAM DRESSING ABSORBS FLUID, PHMB TARGETS BACTERIA.



Figure 1. Dressing is applied to a moderate or heavily exudating wound.



Figure 2. The foam absorbs wound fluid and bacteria, providing a moist environment while PHMB in dressing attacks bacteria.



Figure 3. As fluid reaches foam core, PHMB attacks and disrupts bacterial structure, killing the cell.



Figure 4. The foam continues to provide a moist environment while PHMB provides protection against bacterial colonization in, and penetration through dressing.



Kendall[™] AMD Foam Dressings simultaneously manage moisture and bacteria. TO DEPICT A REAL-LIFE SCENARIO, A CLINICAL ISOLATE OF MRSA AT 10⁷ WAS TESTED ON BOTH STANDARD FOAM AND KENDALL[™] AMD ANTIMICROBIAL FOAM DRESSINGS FOR COMPARISON. AFTER 168 HOURS, THE CONTRAST IS STAGGERING.

• SEM Photography @ 3,000x magnification Source: Center for Biofilm Engineering, Montana State University, Bozeman MT

FOR MORE INFORMATION VISIT: WWW.KENDALLAMDFOAM.COM



Standard Foam Dressing

Kendall™ AMD Antimicrobial Foam Dressing

	COVIE	
	KEI	Enicrobal Foard Decision 0 one x 10 on)
-		4
		/

tem No. Case Description		Qty.
55522AMD	2 " x 2 " (5cm x 5cm) Antimicrobial Foam	
55535AMD	3.5" x 3" (8.8cm x 7.5cm) Antimicrobial Foam, Fenestrated	
55544AMD	4" x 4" (10cm x 10cm) Antimicrobial Foam	
55548AMD	4" x 8" (10cm x 20cm) Antimicrobial Foam	
55566AMD	6" x 6" (15cm x 15cm) Antimicrobial Foam	50
55588AMD	8" x 8" (20cm x 20cm) Antimicrobial Foam	
Plus: with Backsheet		
55535PAMD	3.5" x 3" (8.8cm x 7.5cm) Antimicrobial Foam, Fenestrated with backsheet	
55544PAMD	4" x 4" (10cm x 10cm) Antimicrobial Foam with backsheet	50

Okan d, et al. The Role of Moisture balance in Wound Healing. *Advances in Skin and Wound Care*. 2007:39-53.
Ratliff, C.; Wound Exudate an Influential Factor in Healing. *Advances for Nurse Practitioners* July 2008: 32-35
Keast, D. Current Chronic Wound Management. *Wound Management, Touch Briefings* 2007; 40-41

COVIDIEN, COVIDIEN with logo and ™ marked brands are trademarks of Covidien AG or an affiliate. © 2009 Covidien. All rights reserved.

H-6337-5M-0109



15 Hampshire Street Mansfield, MA 02048 800-962-9888 508-261-800 WWW.COVIDIEN.COM

The Next Great Balancing Act

> Simultaneously Manage Moisture and Bacteria with Kendall[™] AMD Antimicrobial Foam Dressings

