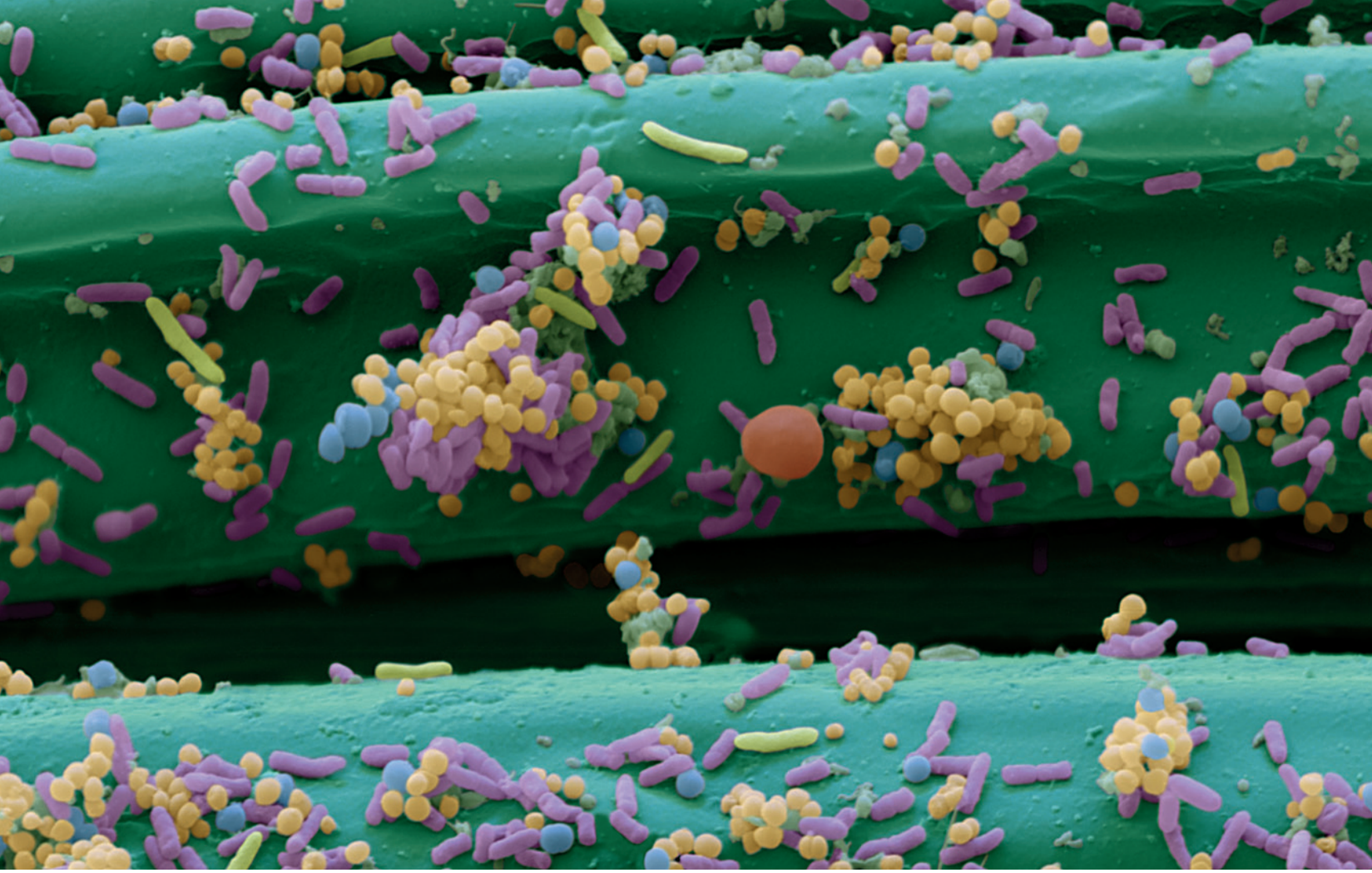
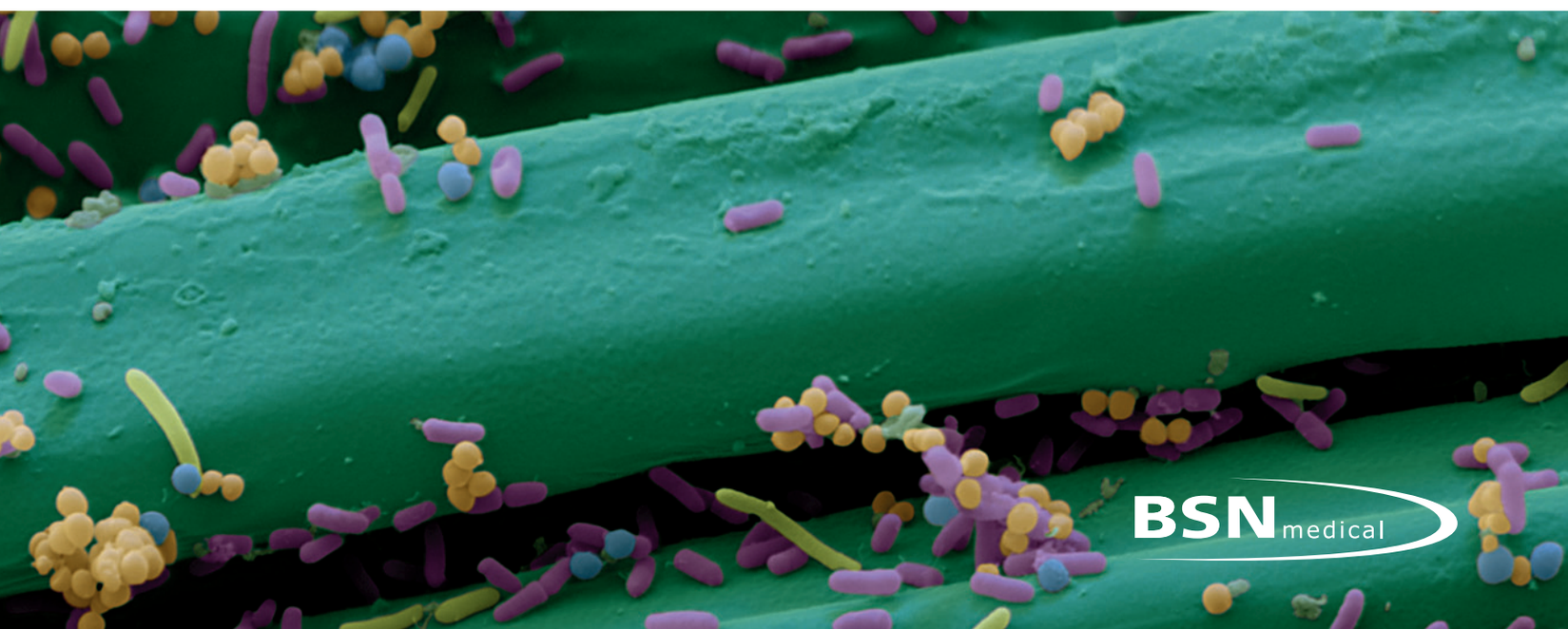


Redefining Infection Management

DISCOVER THE DACC DIFFERENCE



BSN medical

DACC Technology

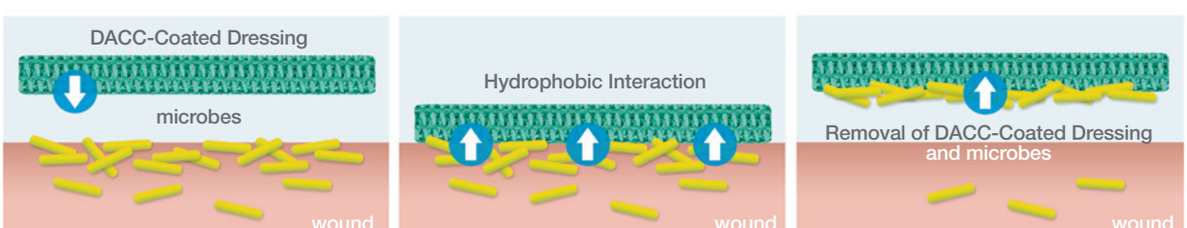
Redefining Infection Management

Proprietary DACC Technology “catches” or binds bacteria and removes it from the wound bed versus killing it, like silver and other antimicrobial dressings. This helps to keep the cell wall intact, allowing for **natural healing** and **long-term prevention of infections,** across the wound care continuum.

DACC Technology Quickly Binds Bacteria

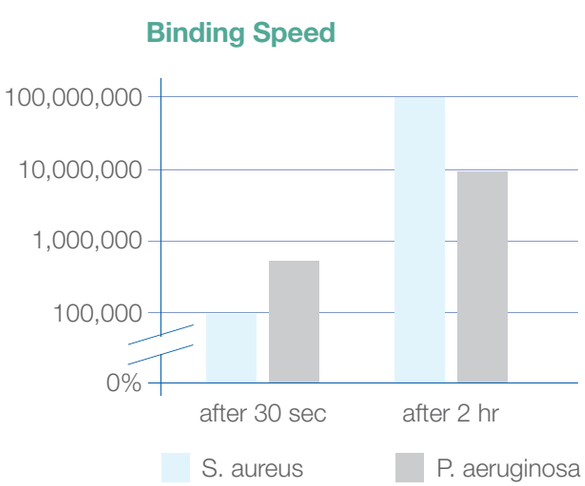
Catches and Inactivates Bacteria

- DACC (dialkylcarbamoylchloride) is a highly hydrophobic fatty acid derivative, that wound bacteria find very attractive
- Bacteria become irreversibly bound to the DACC-coated dressing fibers, and to each other, so they are unable to move back to the wound bed
- Bacteria become inactive, preventing toxin release and replication



Faster bacteria removal promotes faster wound healing[1]

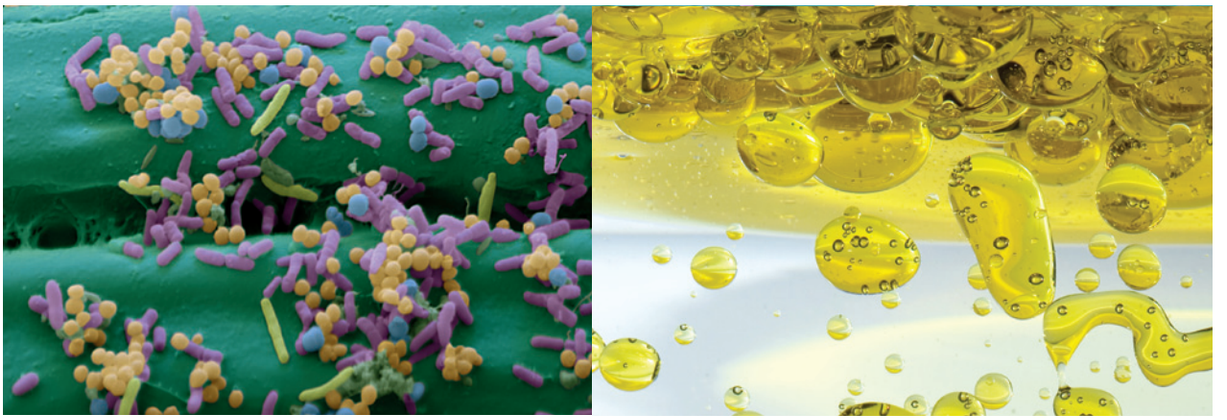
- In the first 30 seconds, one square centimeter of Cutimed® Sorbact® binds up to 100,000 (10^5) wound bacteria
- After two hours, up to 100,000,000 (10^8) more microbes are bound
- Effectively binds MRSA and VRE



Creating Optimal Conditions for Wound Healing

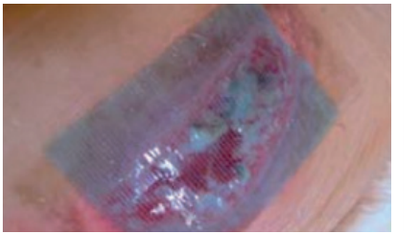
DACC Technology uses the physical property of hydrophobic interaction to promote bacteria binding just like oil droplets attach to each other in water.

The bacterial pathogens are then removed with each dressing change, reducing the overall bacterial load and creating optimal conditions for natural wound healing.



DACC Technology Improves Healing Time

Wound treated 2 months with silver.



Debrided wound treated with DACC-coated dressing (twice a week).

Proven to Improve Healing Time by 40%[2]

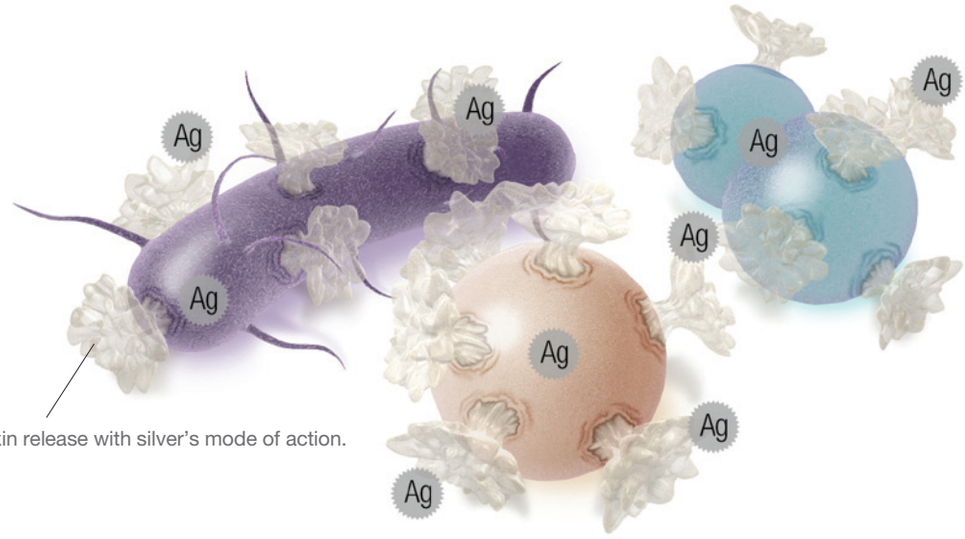
Clinical evidence comparing wounds treated with silver and wounds treated by DACC Technology demonstrated a 40% reduction in healing time – 12 days vs. 20 days.

12 Days
vs. 20 Days

Manages Bioburden With a Different Mode of Action – Physical vs. Chemical

When topical antimicrobial products such as silver, kill bacteria or fungi they disrupt the cell wall and release endotoxins and debris into the wound bed. This can cause the body to go into an inflammatory response, ultimately delaying wound healing[3].

DACC Technology releases no chemical agents to fight bacteria and fungi which makes it a uniquely safe and effective wound treatment option for colonized, highly colonized and infected wounds.



An illustration of endotoxin release with silver's mode of action.

DACC Technology
Naturally Safe & Effective

	DACC	SILVER	
No Known Cytotoxicity	X		
No Systemic Absorption	X		
Effective Against Fungi	X	X	
For Use on Colonized or Infected Wounds	X	X	
Reduces Overall Bioburden	X	X	

No Complications From Infection[2]

In a study of 80 patients, 50% treated with silver and 50% treated with DACC Technology for four months, 12 of 38 patients treated with silver developed signs of infection. Of patients treated with DACC Technology, there were zero complications by infection.

Even Binds Superbugs – MRSA and VRE

Though **MRSA** (methicillin-resistant Staph. Aureus) **and VRE** (vancomycin-resistant Enterococcus) are resistant to antibiotics, they are also hydrophobic and will bind to DACC Technology with no known risk of resistance.

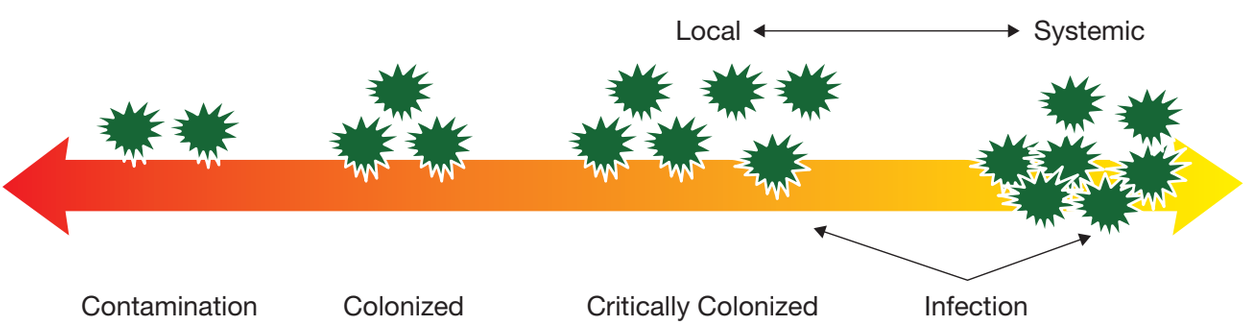
DACC-Coated Dressings Are Effective in the Removal of Bacteria From Wound Beds, Including MRSA[4]

An *in-vitro* study that concluded *"A quantitatively high and stable initial adhesion to the microbial binding dressing was detected in all experiments involving Staph. Aureus strains, including nine MRSA strains. These findings strengthen the view that development of antibiotic resistance has minimal impact on the surface structures of the microorganism from a wound adhesion perspective."*

DACC Technology No Known Risk of Bacterial Resistance

Studies prove that bacterial microbes are becoming more resistant to silver impregnated dressings. The hydrophobic binding mode of action of DACC Technology means there will likely be no development of bacterial resistance.

Without a limited duration of use, DACC Technology can be used throughout the healing process to prevent further infection.



Cutimed® Sorbact®	Size	REF-No.	Dressings/Box	Suggested HCPCS*
Dressing Pads • Absorbent core • Exudate management 	2.8 x 3.5 in. (7 x 8.9 cm)	7216101	5	A6251
	2.8 x 3.5 in. (7 x 8.9 cm)	7216100	40	A6251
	4 x 4 in. (10 x 10 cm)	7216201	5	A6251
	4 x 4 in. (10 x 10 cm)	7216200	40	A6251
	4 x 8 in. (10 x 20 cm)	7216300	20	A6252
Ribbon gauzes • Sorbact® impregnated ribbon gauze • Cavity wounds of all kinds 	0.8 x 19.7 in. (2 x 50 cm)	7216600	20	A6266
	2 x 78.7 in. (5 x 200 cm)	7216700	10	A6266
Swabs • Flat, folded dressing • Deep or superficial wounds 	1.6 x 2.4 in. (4 x 6.1 cm)	7216401	5	A6222
	1.6 x 2.4 in. (4 x 6.1 cm)	7216400	40	A6222
	2.8 x 3.5 in. (7 x 8.9 cm)	7216501	5	A6222
	2.8 x 3.5 in. (7 x 8.9 cm)	7216500	40	A6222
Round swabs • Sorbact® impregnated acetate round swabs • Deep or superficial wounds 	walnut	7216800	70 (14 x 5)	A6222
WCL • Sorbact® impregnated acetate fabric • Shallow wounds and under compression 	2 x 3 in. (5 x 7.6 cm)	7266200	10	A6206
	4 x 4 in. (10 x 10 cm)	7266201	10	A6206
	4 x 5 in. (10 x 12.7 cm)	7266202	10	A6207
	4 x 8 in. (10 x 20 cm)	7266203	10	A6207
	6 x 6 in. (15 x 15 cm)	7266204	10	A6207
	8 x 8 in. (20 x 20 cm)	7266205	10	A6208
Gel • Ready-to-use • Combines Sorbact® dressing with preservative-free hydrogel • Moist wound management • Promotes autolytic debridement • Sloughy or partly necrotic wounds. 	3 x 3 in. (7.6 x 7.6 cm)	7261100	10	A6231
	3 x 6 in. (7.6 cm x 15 cm)	7261101	10	A6232
Post-Op • Made of DACC impregnated acetate tissue with absorbent pad and transparent film border • Surgical incisions, abrasions and traumatic wounds 	2 x 3 in.	7619900	20	A6251
	3 x 4 in.	7619901	20	A6203
	3 x 6 in.	7619902	20	A6203
	4 x 8 in.	7619903	20	A6203
	4 x 10 in.	7619904	20	A6204
	4 x 12 in.	7619905	20	A6204
	4 x 14 in.	7619906	20	A6204

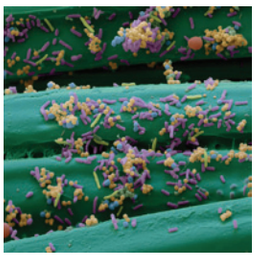
Please refer to the product label and/or package insert for full instructions on the safe use of these products.

* This document includes codes that might be used to bill for BSN medical products and related services. It is the provider's sole responsibility to determine and submit appropriate codes, charges, and modifiers for services rendered. BSN medical Inc. cannot guarantee coverage or reimbursement.

Proven Clinical Outcomes

Proof of Bacteria-Binding[1]

In the first 30 seconds, 1 square centimeter of Cutimed® Sorbact® binds 10^5 wound bacteria - after 2 hours, the amount of bacteria bound are more than would normally be found in an infected wound.



Bound bacteria become inactivated, their metabolism slows down, they “take a rest” and do not continue to replicate. The formation of bacterial toxins also slows or stops completely which supports the wound healing process. In a lab porcine model, DACC-coated dressing showed more bacteria was removed than with Actisorb (non-DACC).

Even Binds the Superbugs, MRSA[4]

DACC-coated dressings are effective in the removal of bacteria from wound beds, including MRSA.

An *in-vitro* study that concluded “A quantitatively high and stable initial adhesion to the microbial binding dressing was detected in all experiments involving *Staphylococcus aureus* strains, including nine MRSA strains. These findings strengthen the view that development of antibiotic resistance has minimal impact on the surface structures of the microorganism from a wound adhesion perspective.”

DACC vs. Silver[2]

No signs of infection and cut the healing time by 40%.

80 patients - 50% treated with silver, 50% treated with DACC Technology. Patients were observed until wound healed, or total time of 4 months. Of the patients treated with silver, 12 of 38 patients developed signs of infection and the average healing time was 20 days. Of the patients treated with DACC Technology, there were zero complications by infection and the average healing time was 12 days.

Prevents Infection[5]

Equally effective to standard of care in preventing infections.

2,441 infants participated – DACC was compared to the standard of care, chlorhexidine-ethanol antimicrobial. Cutimed® Sorbact® coated with DACC Technology was proven to be equally effective to standard of care in preventing infections with the purpose of preventing bacterial colonization in the umbilical area.

Safe and Effective Wound Healing[6]

93% of the wounds improved or healed completely in the documented period.

In the Kammerlander multi-center study with 116 colonized or infected wounds, Cutimed® Sorbact® with DACC Technology eliminated the infection signs in the majority of patients.

Reduces Exudate, Odor and Pain[7]

Medical personal have reported exudate levels greatly improved, even for long-standing wounds that did not respond to prior treatments. Studies also show a considerable reduction in malodor in just over four weeks with Cutimed® Sorbact® and patients reported a significant reduction in pain over the treatment period.

1 RCT • 7+ Peer-Reviewed Articles • 25+ Posters • 20+ Case Studies

1. Ljungh, A. Yanagisawa, N. and Wadstrom, T. Using the principle of hydrophobic interaction to bind and remove wound bacteria. The Journal of Wound Care, April 2006, Vol 15, No.4. 2. Corsi, Alessandro. Comparison of a novel non-mediated bacteria-binding dressing to silver dressings in the management of acute and chronic skin lesions. 3. Edwards R, Harding KG. (2004). Bacteria and wound healing. Curr Opin Infect Dis 17:91-96. 4. Ronner, A.C., et.al.: Adhesion of methicillin-resistant Staphylococcus aureus to DACC-coated dressings, Journal of Wound Care, Vol. 23 / No. 10, October 2014. 5. Meberg A, Schoyen K. Hydrophobic material in routine umbilical cord care and prevention of infections in newborn infants. Scand J Infect Dis 22. 6. Kammerlander, G., Locherer, E., Süss-Burghart, A., von Hallern, B., Wipplinger, P. An investigation of Cutimed® Sorbact® as an antimicrobial alternative in wound management. 7. Hampton, S. An evaluation of the efficacy of Cutimed® Sorbact® in different types of non-healing wounds. Wound UK. 2007;3:1-6.

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