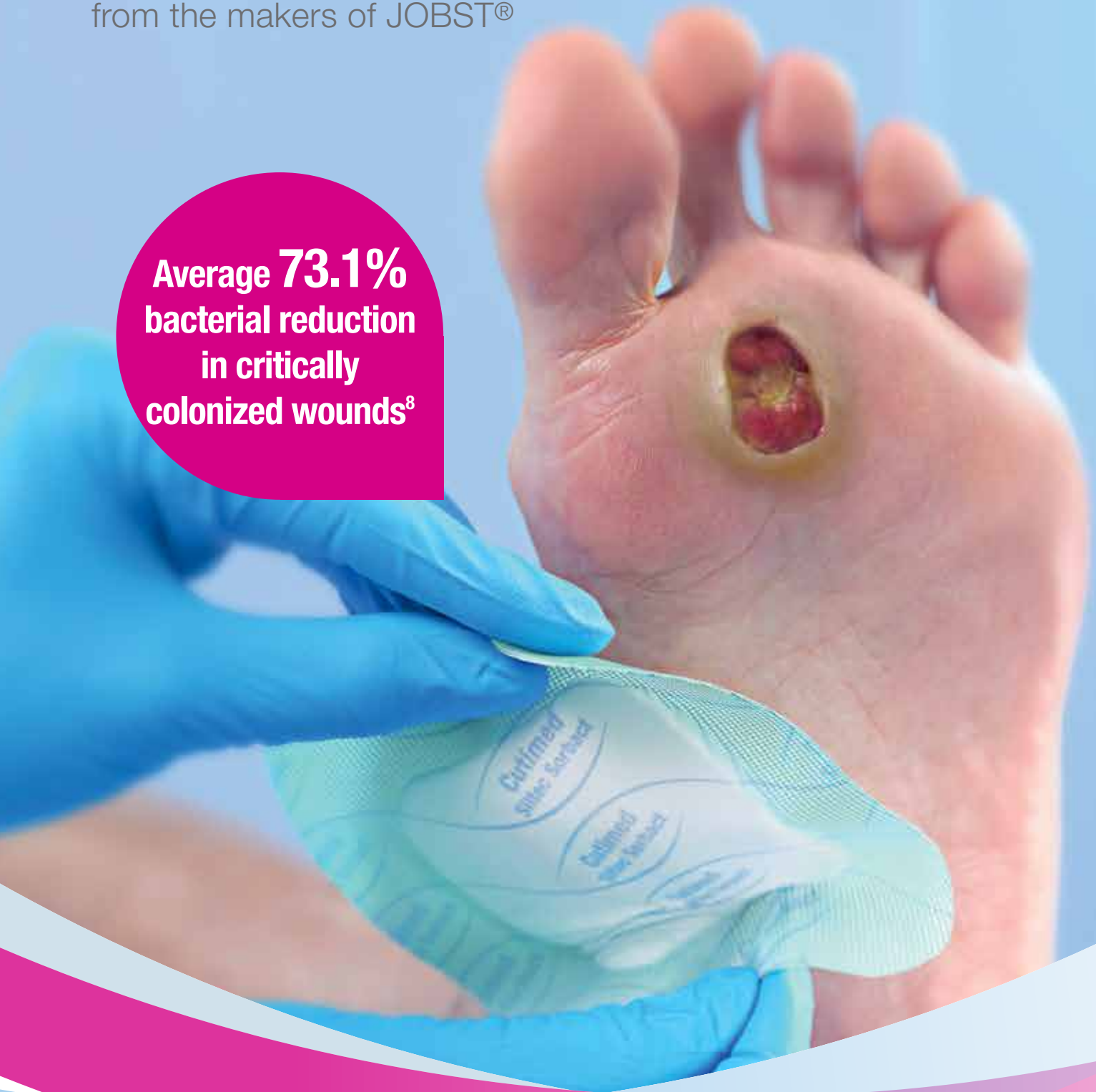


Cutimed® Sorbact®

Safe and effective infection management
from the makers of JOBST®

Average **73.1%**
bacterial reduction
in critically
colonized wounds⁸



Cutimed®

⁸ Mosti et al. Comparative study of two antimicrobial dressings in infected leg ulcers: a pilot study. J Wound Care. 2015 Mar;24(3):121-2; 124-7

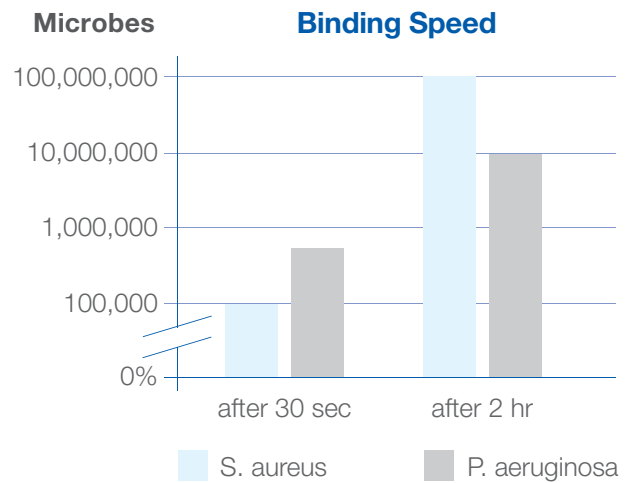
Cutimed® Sorbact®
provides

all-around infection management



Faster bacteria removal promotes faster wound healing¹

- 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



Safe

Binds hydrophobic
bacteria
and fungi

Clinically Proven

Demonstrated ability
to help reduce
hydrophobic bacterial
burden in critically
colonized wounds⁸

⁸ Mosti et al. Comparative study of two antimicrobial dressings in infected leg ulcers: a pilot study. J Wound Care. 2015 Mar;24(3):121-2; 124-7

It's time to go down a new path. It's time to go green!

Due to the **physical mode of action**, Cutimed® Sorbact® binds and removes bacteria without the release of any antimicrobial agents. **Together, we can play our part in helping to reduce antimicrobial resistance by providing alternative methods to antimicrobial agents, in situations where they may not be needed.**



Safely binds hydrophobic bacteria and fungi

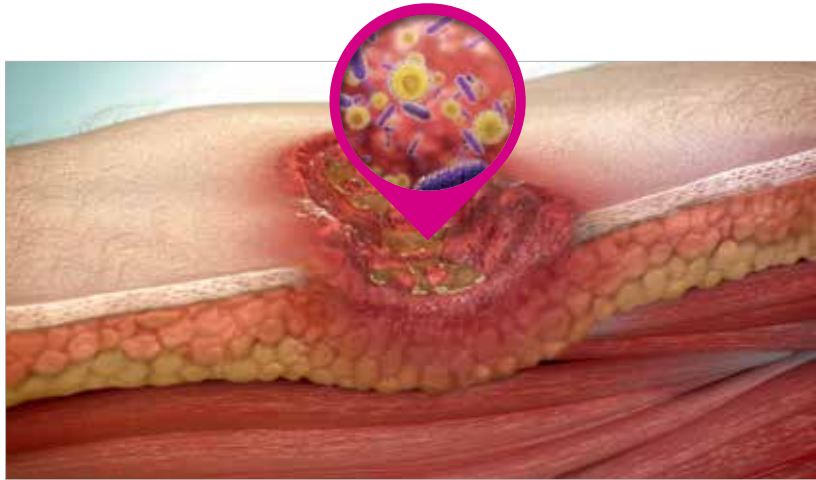
The effectiveness of Cutimed® Sorbact® is based on a **physical mode of action**. This creates a variety of benefits, which make your **daily work effective**:

- No release of antimicrobial agents
 - Low risk of allergies
- In addition, the dressing can be used for:
- Prolonged duration of treatment**
 - Children*
 - Pregnant and breastfeeding women due to its physical mode of action*

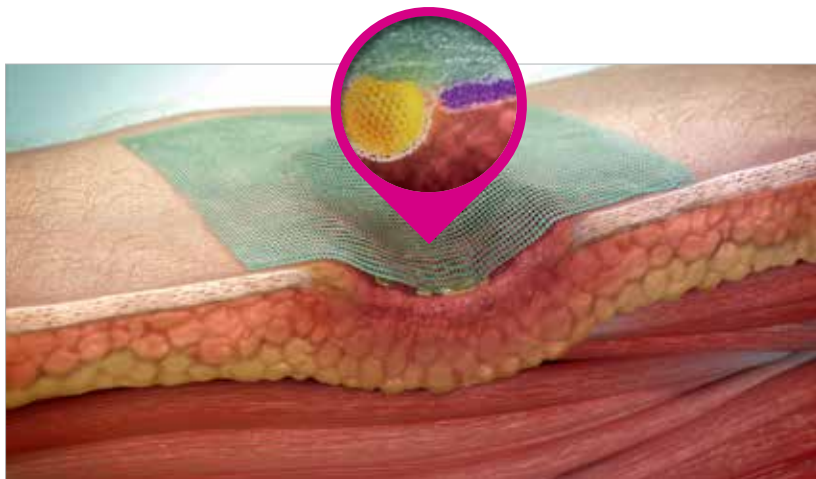
* Consider limitations mentioned in the IFU in regard of Cutimed Sorbact gel

** The dressing changes should be considered acc. to patient specific needs and limitations given by the IFU.

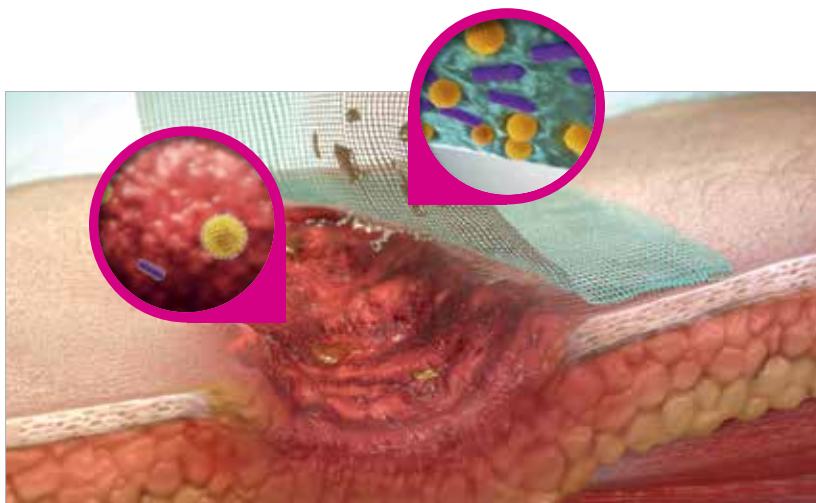
Cutimed® Sorbact® safely binds bacteria physically



An **infected** and **colonized** wound.



Cutimed® Sorbact® is applied directly to the wound. Hydrophobic bacteria and / or fungi are attracted to the **Sorbact®** mesh.



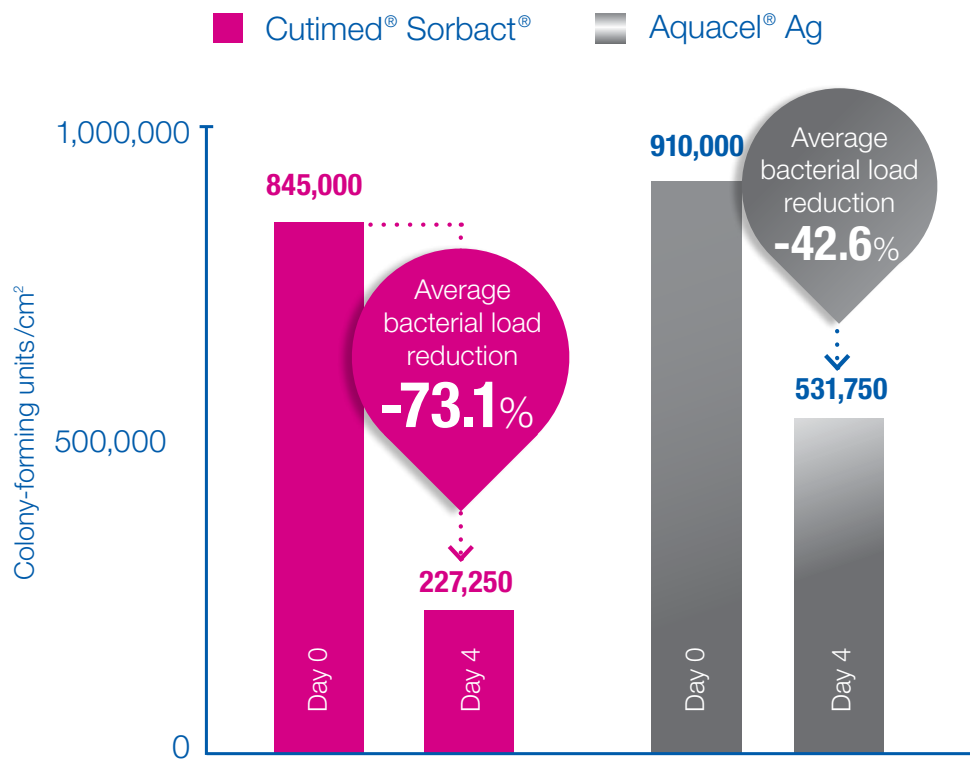
Bound pathogens are removed **with each dressing change**

To learn more about **Cutimed® Sorbact®**'s physical mode of action, please visit our **Cutimed®** YouTube channel:



Cutimed® Sorbact® has demonstrated proven effectiveness

In a randomized, comparative, single site study of 40 patients with leg ulcers, Cutimed® Sorbact® was more effective at reducing bioburden than Aquacel® Ag.⁸

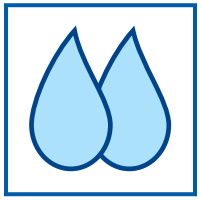


Cutimed® Sorbact®		
Mode of action	Features	Benefits
Physical mode of action	No release of antimicrobial agents	May help reduce potential for additional irritation
	Does not release additional endotoxins*	May reduce potential to cause additional inflammation and delay in wound healing†
	No known mechanism of resistance has been described	May help reduce the risk of generating resistant strains of bacteria

⁸ Mosti et al., Comparative study of two antimicrobial dressings in infected leg ulcers: a pilot study, Journal of Wound Care, 2015 Mar;24(3):121-2; 124-7

* As shown in vitro; Susilo YB, Husmark J, DACC Coated Wound Dressing and Endotoxin: Investigation on Binding Ability and Effect on Endotoxin Release from Gram-negative Bacteria. Poster presented at EWMA 2019.

† Ovington L. Bacterial toxins and wound healing. Ostomy Wound Manage. 2003 Jul;49(7A Suppl):8-12. Review.



Cutimed® Siltec® Sorbact® proven quality – no compromises

Cutimed® Siltec® Sorbact® combines the benefits of infection and exudate management by using a **bacteria-binding wound contact layer** and an **innovative, gentle foam**. It is suitable to manage the bacterial load in moderate to highly exuding wounds.

Ideal healing conditions due to moisture-balancing, highly breathable PU film

Protects wound edges with vertical absorption through polyurethane foam

Increased flexibility of absorption capacity due to super-absorbent hot-melt stripes

Manages and helps control infections thanks to the effective **Sorbact®** wound contact layer

Gentle fixation due to silicone border

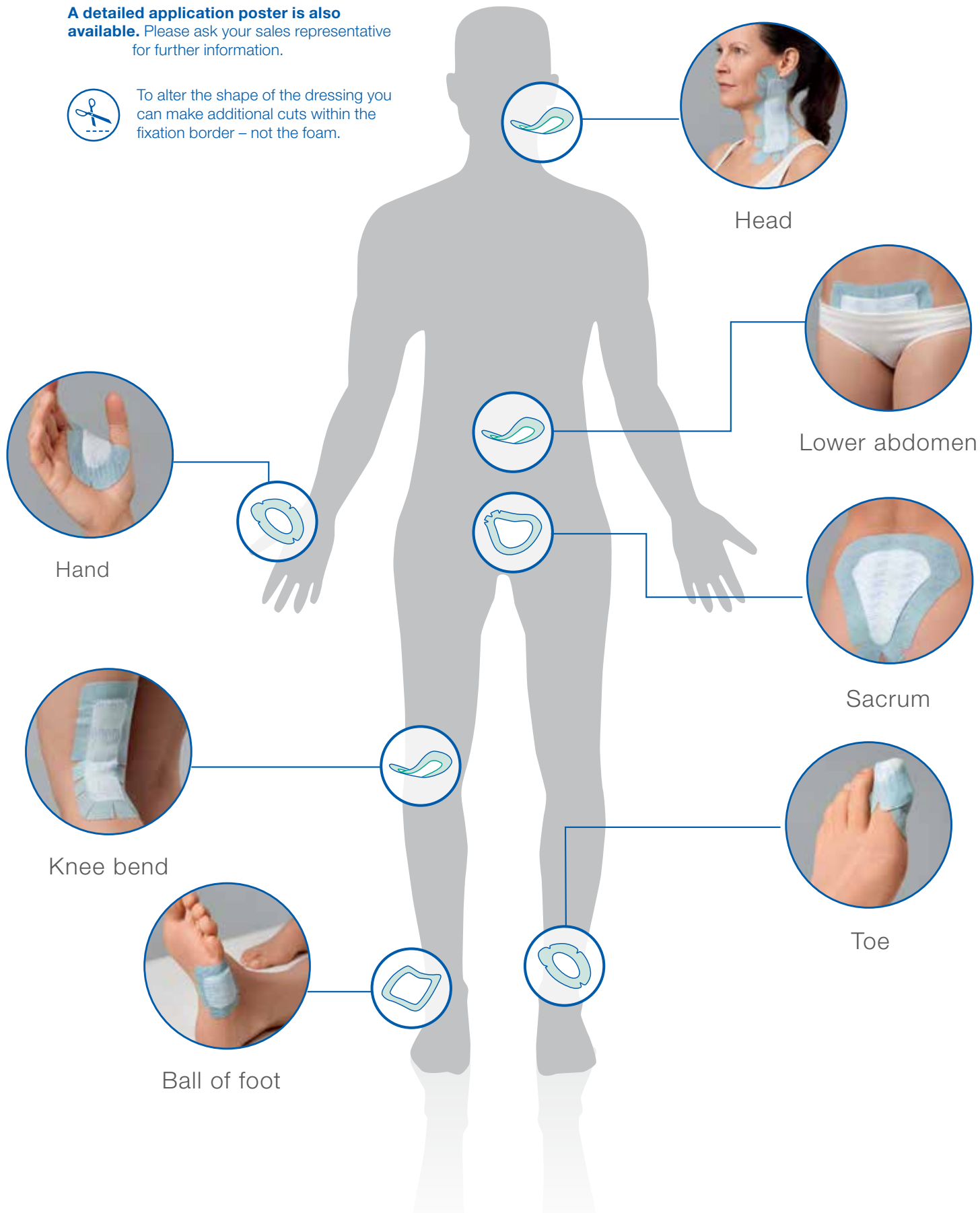
Easy to apply

Due to the **special shapes** and ease of cutting, **Cutimed® Siltec® Sorbact®** can be used for all body parts, even highly contoured ones.

A detailed application poster is also available. Please ask your sales representative for further information.



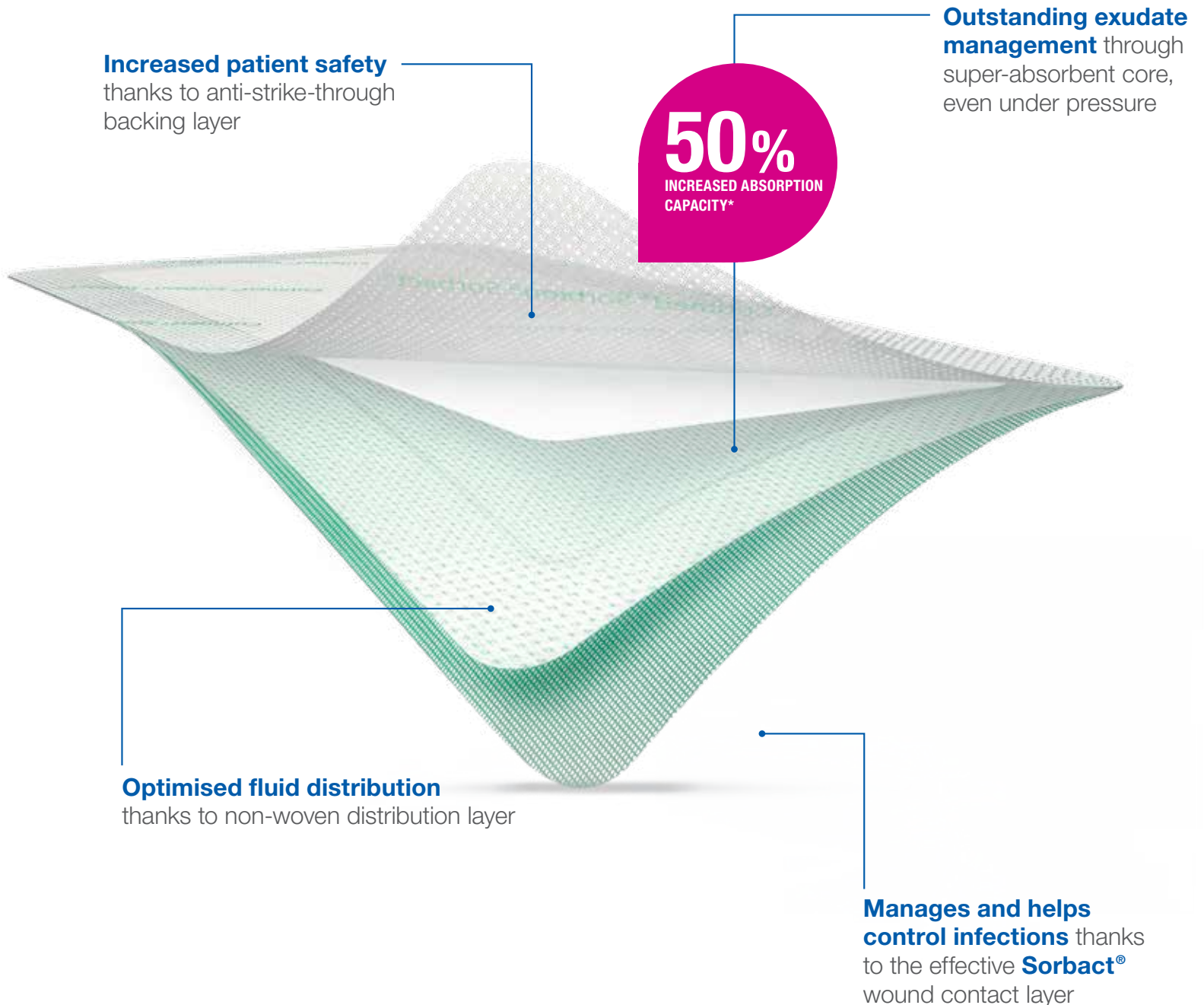
To alter the shape of the dressing you can make additional cuts within the fixation border – not the foam.



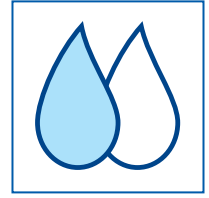


Cutimed® Sorbion® Sorbact® powerful exudate management

Cutimed® Sorbion® Sorbact® enables safe infection management and handles **large amounts of exudate** at the same time due to the super-absorbent core.



Cutimed® Sorbact® Hydroactive B stimulates the wound



Cutimed® Sorbact® Hydroactive B manages infections and stimulates **autolytic debridement** of fibrin and necrotic tissue.

4-IN-1
SOLUTION

Eases total treatment by combining autolytic debridement, exudate and infection management

Allows patient mobilization thanks to safe fixation through hydrogel adhesive border

Supports autolytic debridement



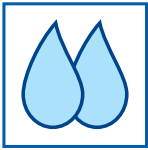



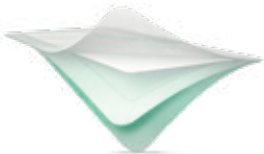



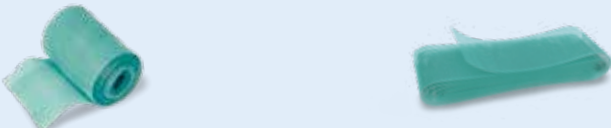
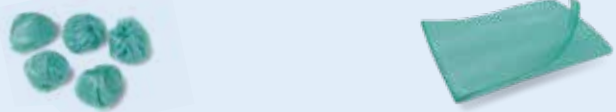

Manages and helps control infections thanks to the effective **Sorbact®** wound contact layer





Cutimed® Sorbact® is suitable for clean, colonized and infected wounds such as:

- Chronic wounds (e.g. venous, arterial, diabetic or pressure ulcers)
- Postoperative dehisced wounds
- Traumatic wounds
- Wounds after excision of fistulas and abscesses
- Dermal fungal infections

<p>EXUDATE LEVEL</p> <p>Infected wounds</p> 			
	 <p>Cutimed® Sorbact® Hydroactive B</p>	 <p>Cutimed® Siltec® Sorbact®</p>	 <p>Cutimed® Sorbion® Sorbact®</p>
<p>WOUND BED PREPARATION</p> <p> superficial wounds</p> <p> deep wounds</p> <p> superficial and deep wounds</p>	 <p>Cutimed® Sorbact® ribbon gauzes</p>  <p>Cutimed® Sorbact® (round) swabs</p>		
	 <p>Cutimed® Sorbact® gel*</p>		

* Promotes autolytic debridement in sloughy or partially **necrotic wounds**.

Ordering Information

Ask your sales representative for more information or order your sample kit. **See for yourself – it's time to go green!**

Cutimed®		Size	REF no.	Dressings per box
Sorbact® Dressing pads Dressing fabric with absorbent core.		2.8 x 3.5 in	7216111	5
		2.8 x 3.5 in	7216110	40
		4 x 4 in	7216213	5
		4 x 4 in	7216210	40
		4 x 8 in	7216307	20
Sorbact® Ribbon gauzes For use in cavity wounds of all kinds.*		0.8 x 19.7 in	7216606	20
		2 x 78.7 in	7216705	10
Sorbact® Swabs Flat, folded dressing for deep or superficial wounds.*		1.6 x 2.4 in	7216413	5
		1.6 x 2.4 in	7216412	40
		2.8 x 3.5 in	7216511	5
		2.8 x 3.5 in	7216510	40
Sorbact® Round Swabs Preformed for deep and superficial wounds.*		walnut	7216805	70 (14 x 5)
Sorbact® Gel Promotes autolytic debridement.		3 x 3 in	7261112	10
		3 x 6 in	7261113	10
Sorbact® Wound Contact Layer For use on shallow wounds and under compression		2 x 3 in	7266200	10
		4 x 4 in	7266201	10
		4 x 5 in	7266202	10
		4 x 8 in	7266203	10
		6 x 6 in	7266204	10
		8 x 8 in	7266205	10
Sorbact® Hydroactive B Absorbent hydrogel core for low to moderately exuding wounds; adhesive border.		2.8 x 3.3 in	7993300	10
		5.5 x 5.5 in	7993302	10
		7.5 x 7.5 in	7993303	10
		5.5 x 9.4 in	7993304	10
Siltec® Sorbact® Super-absorbent foam dressing for moderate to highly exuding wounds; silicone adhesive border.		3 x 3 in	7325100	10
		4 x 4 in	7325116	10
		4 x 9 in	7325114	10
		5 x 5 in	7325101	10
		6 x 6 in	7325102	10
		7 x 7 in	7325103	5
		9 x 9 in	7325104	5
Siltec® Sorbact® (oval)		3 x 4 in	7325118	10
Siltec® Sorbact® (sacrum)		7 x 7 in	7325105	5
		9 x 9 in	7325106	5
Sorbion® Sorbact® Super-absorbent dressing for highly exuding wounds.		4 x 4 in	7269808	10
		4 x 8 in	7269809	10
		8 x 8 in	7269810	10
		8 x 12 in	7269811	10
Leukomed® Sorbact®				
Especially suitable for use in post-operative wounds.		2 x 3 in	7619914	20
		3 x 4 in	7619915	20
		3 x 6 in	7619916	20
		4 x 8 in	7619917	20
		4 x 10 in	7619918	20
		4 x 12 in	7619919	20
		4 x 14 in	7619920	20

* These dressings require an additional dressing on top to ensure proper exudate management.

Sorbact® is a registered trademark of ABIGO Medical AB. Cutimed and Leukomed are registered trademarks of BSN medical GmbH.

Proven Clinical Outcomes

Proof of Bacteria-Binding¹

In the first 30 seconds, 1 square centimeter of Cutimed® Sorbact® binds 10⁵ 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.

Even Binds the Superbugs, MRSA⁴

Cutimed® Sorbact® is effective in the removal of hydrophobic-binding 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.”

Cutimed® Sorbact® vs. Aquacel® Ag⁸

Cutimed® Sorbact® showed a greater reduction in bacterial load at 73% versus Aquacel® Ag at a reduction of 41%.

A randomized comparative single center study was conducted with 40 patients using antimicrobial dressing for 4 days - 20 with Cutimed® Sorbact® and 20 with Aquacel® Ag. Evaluation confirmed that both dressings are effective in reducing bacteria burden however, Cutimed® Sorbact® was significantly more effective.

Cutimed® Sorbact® vs. Silver²

No signs of infection and improve the healing by 40%

A randomized clinical study was conducted with 80 patients; 50% treated with silver, 50% treated with Cutimed® Sorbact®. Patients were observed until wound healed, or total 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 Cutimed® Sorbact®, there were zero complications by infection and the average healing time was 12 days.

Reduces Incidence of SSI⁹

Patients using Cutimed® Sorbact® coated dressings had a 65% reduction in incidence of surgical site infections

A single blinded randomized, controlled study with 543 patients was conducted. Patients were evaluated during first 14 days after a cesarean section and were randomly selected to receive a Cutimed® Sorbact® Dressing or a standard surgical dressing. The rate of superficial and deep SSIs were 1.8% with Cutimed® Sorbact® versus 5.2% with standard surgical dressing. None of the patients who received Cutimed® Sorbact® dressings required re-hospitalization, surgical intervention or antibiotic treatment. These outcomes did occur in the control group.

Helps Control Infections^{5*}

Equally effective to standard of care in helping prevent infections

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

Safe and Effective Wound Healing⁶

93% of the wounds improved or healed completely in four weeks

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

Reduces Exudate, Odor and Pain⁷

Medical personnel 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®. Patients reported a significant **reduction in pain** over the treatment period.

* DISCLAIMER - The use(s) of the subject device described in this study have not been cleared by FDA and are being provided as information only. The author is not known to BSN as having a financial interest in BSN or in a product of BSN that is included in the study, nor is the author receiving compensation from BSN, nor is there any affiliation of the author to BSN in any manner. It is not known by BSN who has provided funding for the study. All significant risks or safety concerns associated with the uncleared use(s) of BSN's device(s) discussed in the study are known to BSN but may not be discussed in the study.

2+ RCTs • 10+ Peer-Reviewed Articles • 45+ Case Studies & Posters

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. Poster presentation SAWC 2012 **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 Cutimed® Sorbact® dressings, Journal of Wound Care, Vol. 23 / No. 10, October 2014. **5.** Meberg A, Schoyen K. (1990) Hydrophobic material in routine umbilical cord care and prevention of infections in newborn infants. Scand J Infect Dis 22:729-733. **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, Wounds UK, 2008, Vol. 4, No. 2. **7.** Hampton, S. An evaluation of the efficacy of Cutimed® Sorbact® in different types of non-healing wounds. Wounds UK. 2007;3:1-6. **8.** Mosti, G., Magliaro, A., Mattaliano, V. et al. Comparative study of two antimicrobial dressings in infected leg ulcers: a pilot study. J Wound Care 2015; 24: 3, 121-127. **9.** Staniorowski, P., Kociszewska, A., Cendrowski, K., and Sawicki, W. Cutimed® Sorbact® impregnated dressing for the prevention of surgical site infection in women undergoing cesarean section: a pilot study. Archives of Medical Science, (accepted for publication, 22 Nov 2014) DOI (digital object identifier): 10.5114/aoms.2016.47654 **10.** Cutting, K., McGuire, J. (eds). Safe bioburden management: a clinical review of Cutimed® Sorbact®. J Wound Care 2015; 24: 5, S1-32

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Cutimed®,
an Essity brand



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