## **Cutimed<sup>©</sup> Science Card**

# Cutimed<sup>®</sup> Sorbact<sup>®</sup>: 73% reduction of bacterial load in infected leg ulcer

Mosti G et al. Comparative study of two antimicrobial dressings in infected leg ulcers: a pilot study. J Wound Care. 2015;24:121-127.



## What experts recommend

Wound infections can significantly impair wound healing and pose a major challenge to patients and healthcare professionals. The International Wound Infection Institute (IWII) has updated its best practice guide and evaluated clinical evidence of commonly used medicated and non-medicated dressings<sup>1</sup>. The comparison shows that the DACC™\*-coated dressing Cutimed<sup>®</sup> Sorbact<sup>®</sup> meets the IWII experts' key criteria for clinical efficacy.



## Achieving complete wound healing within 8-12 weeks

DACC<sup>™\*</sup>-coated dressing shows higher complete health rates at 75 days for pilonidal sinus versus alginate dressing.



### Reducing clinical signs and symptoms of local wound infection

DACC<sup>™</sup>\*-coated dressing achieves lower rate of signs/symptoms of local wound infection in surgical sites versus non-antimicrobial dressings.



#### Reducing microbial burden

DACC<sup>™\*</sup>-coated dressing shows significant greater reduction in bacterial load for VLUs versus non-binding silver dressing.

## The study

Background: The randomized, comparative single center study<sup>2</sup> compares the efficacy of a microorganismbinding (MB) dressing\*\* with a silver-containing hydrofiber (SCH) dressing\*\*\* in controlling the bacterial loads of heavily colonised or locally infected chronic venous leg ulcers. Participants: 40 patients.

Method: Dressings were changed daily over a 4-day observation period, after which the patients were taken for a skin grafting procedure. Swab samples from ulcer beds were taken in order to quantify the bacterial load at inclusion (day 0) and at the end of the observation period (day 4). Primary endpoint: Bacterial load.

**Results:** Analysing bacterial load variation showed a significant reduction of bacterial burden at day 4 in both groups. In the SCH group, the authors found an average bacterial load reduction of 42%, with an average reduction of 73% in the MB group (p< 0.00001). No serious adverse events were reported.

# better effectiveness



#### References

- 1. International Wound Infection Institute (IWII). Wound Infection in Clinical Practice. Wounds International. 2022.
- 2. Mosti G et al. Comparative study of two antimicrobial dressings in infected leg ulcers: a pilot study. J Wound Care. 2015;24:121-127.

\*DACC™ (Dialkylcarbamoyl Chloride). The DACC™-coated

surface of Cutimed® Sorbact® has special characteristics and hydrophobic properties. Bacteria bind and anchor to the unique Cutimed® Sorbact® surface and are safely removed. Antimicrobial resistance is not expected.

\*\* Cutimed<sup>®</sup> Sorbact<sup>®</sup> (MB dressing)

\*\*\* Aquacel<sup>®</sup> Ag, ConvaTec Ltd (SCH dressing)

The IWII guideline Wound Infection in Clinical Practice recommends Cutimed® Sorbact® for wound healing, reducing signs/symptoms of local infection, and preventing/reducing microbial load<sup>1</sup>. In addition to Mosti G et al, IWII cites 7 other studies for evidence of the clinical effectiveness of the DACC<sup>™</sup>\*-coated dressing, among them Romain B et al. BJS Open. 2020;4:225-231. (https://bitly.ws/32Ndx) and Stanirowski PJ et al. Surg Infect (Larchmt). Read the full version of IWII's guideline 2016;17:427-435. (https://bitly.ws/32Nf5).

#### More Information



## **Conclusion for clinical practice**

Cutimed<sup>®</sup> Sorbact<sup>®</sup> meets the updated criteria of the International Wound Infection Institute's (IWII) best practice guide for the treatment of wound infections. Sorbact<sup>®</sup> Technology provides a physical mode of action, bacteria irreversibly bind to the DACC<sup>™</sup>-coated surface and are safely removed. Mosti G et al. showed that Cutimed<sup>®</sup> Sorbact<sup>®</sup> is clearly superior to the silver-containing wound dressing Aquacel<sup>®</sup> Ag in reducing bacterial load (73% vs. 42%)<sup>2</sup>. Based on these and other studies, the IWII states that Cutimed<sup>®</sup> Sorbact<sup>®</sup> is used for wound healing, reduction of signs/symptoms of local infections and prevention/reduction of microbial burden<sup>1</sup>.





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