Hydrofiber® Technology
TRANSFORMING WOUND CARE

Only from ConvaTec
Evidence supports that choosing the appropriate dressing technology may enhance clinical outcomes.

Clinicians face many wound management challenges every day

- Retaining and controlling exudate levels to prevent lateral spread onto periwound skin while maintaining a moist wound healing environment.\(^1\)

- Removing harmful bacteria and enzymes from the wound which may prevent wound healing.\(^2\)\(^-\)\(^4\)

- Minimizing pain and discomfort for patients during dressing change or when the dressing is in situ.\(^5\)

Patient outcomes can be impacted if wound management challenges are not managed effectively, leading to:

- Infection
- Delayed healing
- Patient pain and discomfort

Evidence supports that choosing the appropriate dressing technology may enhance clinical outcomes.
Make the **intelligent wound care choice**
for your patients... choose dressings containing
**Hydrofiber® Technology**

A unique, patented technology that gels on contact with
wound exudate.

**Locks in** wound exudate\(^6\) and traps bacteria.\(^2, 4^*\)

- Helps protect periwound skin and reduce maceration.\(^7, 8\)
- May help minimize cross-infection and risk of wound infection during removal.\(^2, 9\)

**Contours** to the wound bed.\(^10^*\)

- Minimizes “dead space” where bacteria can thrive.\(^10\)
- Maintains moisture balance in the wound bed.\(^11\)

**Responds** to wound conditions by forming a cohesive gel.

- The addition of ionic silver provides rapid and sustained antimicrobial activity.\(^12-14^*\)
- Minimizes pain associated with dressing changes.\(^5, 15\)

\(^*\)As demonstrated *in vitro*
All images are artist’s impressions
Hydrofiber® Technology is different from other dressing technologies

Reducing the lateral spread of fluid

Wicking test shows the distance that the fluid travels along a dressing. The dressing is placed in a petri dish containing 15ml of dyed fluid.

Hydrofiber® Technology dressing  Alginate dressing  Gauze dressing

Trapping bacteria within the fibers

Scanning electron micrograph showing sequestration of Staphylococcus aureus in a Hydrofiber® Technology dressing at 100-fold magnification

In vitro studies have shown that AQUACEL® dressing retained 68 to 70% of both S. aureus and P. aeruginosa compared to 7 to 12% and 32 to 41% respectively for 2 alginate dressings tested (P<0.05 for both S. aureus and P. aeruginosa)

Forming an intimate contact with the wound bed

AQUACEL® dressing applied to the simulated wound surface  Gelling commences as AQUACEL® dressing absorbs exudate  AQUACEL® dressing forms an intimate contact with the simulated wound surface, limiting spaces where bacteria can thrive

In these figures, pieces of dressing were placed on simulated wound tissue (pork belly). A needle and syringe containing dyed physiological saline solution was then inserted through the base of the tissue and the water was then inoculated into the ‘wound space’ to simulate an exuding wound (at a rate of 4ml per hour).
Unique Hydrofiber® Technology and ionic silver combination provides effective antimicrobial activity

**Killing bacteria within the dressing**

- **On demand antimicrobial activity**\(^{12*}\)
  - Provides effective concentrations of ionic silver within the dressing
  - Responds to changes in the components of wound fluid with increased silver ion availability

- **Rapid and sustained antimicrobial activity***
  - Kills a broad spectrum of pathogens, including MRSA and VRE within 30 minutes of exposure to the dressing\(^{12}\)
  - Sustained antimicrobial activity for up to 14 days as demonstrated in *in vitro* testing\(^{14}\)

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Rapid confocal laser scanning microscopy allows ‘real-time’ visualization of bacterial sequestration within gelling AQUACEL® Ag dressings.\(^*\)

- Green = **Alive**
- Red = **Dead**
- \(T = \text{Time in minutes}\)
- Bacteria = **Pseudomonas aeruginosa**

*As demonstrated *in vitro*
Advanced dressings to help put clinicians in control of wound care and transform patient outcomes

**AQUACEL**

Designed for use with moderately-to-highly exuding chronic and acute wounds.

AQUACEL® dressing, in a protocol of care, achieved healing or **substantial healing** in over 75% of patients after just four weeks, **less pain** in use and on removal, and **fewer dressing changes** compared to baseline in patients that had previously been managed with other dressings.17

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**AQUACEL Ag**

Delivers all the advantages of AQUACEL® dressing plus antimicrobial protection indicated for use with wounds that are infected or at risk of infection.

In a non-comparative four week case series, **70%** of patients showed a **decrease in wound size.**

“A majority of participants had decreased exudate and improved periwound maceration in 75% of cases and frequent increased quality and quantity of granulation tissue.”7

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**Versiva® XC®**

Designed for use with moderately-to-highly exuding chronic and acute wounds, either as a primary or secondary cover dressing.

Versiva® XC® dressing is the only cover dressing specially designed to work in conjunction with AQUACEL® and AQUACEL® Ag dressings.

In a non-comparative study of patients with moderately to heavily exuding leg ulcers, there was a **significant reduction** in mean wound area from 10.1cm² at baseline to 5.1cm² at four weeks (p < 0.001). Ulcers **healed** in 5 subjects (11%).5

**84%** of patients at final evaluation **reported less pain** compared with their previous treatment.5

*Using protocols of care that included Versiva® XC® dressing with sustained graduated compression bandages.

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For more information about these products, please refer to package insert for indications and instructions for use.
Hydrofiber® Technology can **only** be found in the ConvaTec family of dressings

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<th>Dressing size</th>
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One advanced technology… **transforming wound care**
To find out more about Hydrofiber® Technology and the family of dressings visit www.hydrofiber.com

References