

# ➤ QUICKGUIDE

## TIELLE™ DRESSINGS: designed for the real world

Wound healing is a complex process. Normal healing of wounds proceeds through sequential phases that can overlap and vary in length. This *Quick Guide* looks at three key areas that need to be managed effectively to help facilitate wound healing

## Managing real world wound issues

### PAIN

Wound-related pain can be all-consuming and one of the most distressing aspects of having a wound. In a study of 2,018 patients, 40.3% found pain at dressing change to be the worst part of living with a wound<sup>1</sup>. It is important to minimise pain at each stage of the healing process. Silicone dressings may be used to help make patients more comfortable during dressing changes as they journey along the healing process.

### EXUDATE

Exudate production by open wounds is essential for moist wound healing and plays a central role in the healing process<sup>2</sup>, however excess wound fluid causes skin maceration and wound breakdown. It may also adversely affect healing leading to increased demands on resources<sup>2,3,7</sup>.

Removal and locking away of fluid from the wound bed and surrounding skin can promote wound healing. Effective management of exudate can reduce healing time and exudate-related problems, including the risk of infection; it may help alleviate demands of healthcare provider resources, but importantly helps improve patient quality of life<sup>2,7</sup>.

### INFECTION

Exudate may be associated with an infected wound (Triangle of Wound Assessment and TIME). An infected wound can cause pain and discomfort for the patient, and result in chronicity and delayed healing, which impact patient outcomes and quality of life. An infected wound can also be life threatening<sup>16</sup> if it is not managed effectively. Clinical infections, as well as having serious consequences for the patient, can add to the overall cost of care<sup>16</sup>.

The use of topical antimicrobial dressings can help deal with issues of infection and wounds at risk of infection<sup>17</sup>, however some antimicrobial foam dressings containing PHMB kill bacteria more effectively within 3 hours compared with others tested at 24 hours, including silver foams<sup>18</sup>.

# Issues

- Fragile and sensitive skin
- Pain and trauma on removal
- Patient distress<sup>2,3</sup>

TIELLE ESSENTIAL™ Silicone Dressings are designed to allow gentle removal:

- The soft conformable foam dressing aims to provide gentle adhesion<sup>4</sup>
- The silicone wound contact layer is designed to prevent the dressing from sticking to the wound<sup>4,5</sup>
- It aims to help reduce pain and trauma during dressing changes<sup>4,5</sup>

- Periwound damage
  - Maceration
  - Pooling of exudate
  - Delayed healing

- Leakage and soiling

In a clinical study 84% of the patients reported that TIELLE™ Plus Dressing had improved their quality of life, this is due primarily to comfort and lack of leakage compared to previous treatments<sup>10</sup>

TIELLE™ Hydropolmer Dressings with the unique LIQUALOCK™ Advanced Absorption Technology:

- Are designed not to leak
- Lock fluid away<sup>8,9</sup> to help avoid skin maceration
- Expand and conform to the contours of the wound bed, helping to avoid pooling of exudate
- Continuously transfer fluid away from wound bed.

Use TIELLE™ Plus Dressing when you need

- Secure adhesion<sup>10,11</sup>

Use TIELLE™ Non Adhesive Dressing when

- No adhesion is needed

- Delayed healing and tissue damage<sup>19</sup>
- Threat to limbs and also life<sup>19</sup>
- Pain and odour<sup>19</sup>

TIELLE™ PHMB Dressings are designed for wounds at risk of infection or are infected. *In vitro* tests demonstrate a broad spectrum antimicrobial and fast kill rate against numerous microorganisms, TIELLE™ PHMB Dressings:

- Help manage wound bioburden<sup>18</sup>
- Maintain a moist wound healing environment<sup>18,20</sup>.

Use TIELLE™ PHMB Non Adhesive Dressing when

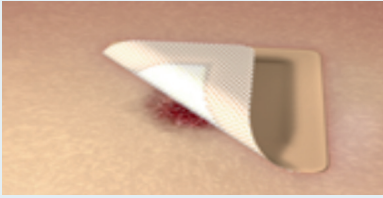
- Skin is delicate

Use TIELLE™ PHMB Border Dressing when

- Secure adhesion is needed

**The greater and faster the kill rate the more effective management of bacterial contamination is<sup>21</sup>**

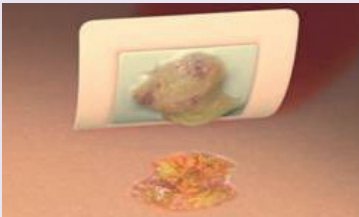
## Outcomes



A healthy human volunteer study using TIELLE ESSENTIAL Silicone Dressings, showed longer wear time when compared with a comparable leading bordered dressing<sup>5</sup>

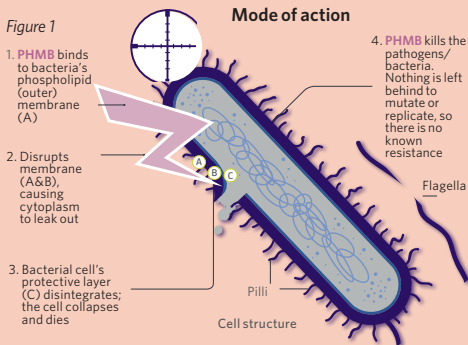
Comfort for patients with fragile skin during wear time and at dressing change, helps avoid patient distress and pain during the healing process<sup>6</sup>.

For skin-friendly removal, see Hints and Tips on page 6



LIQUALOCK™ Advanced Absorption Technology ensures effective absorption and fluid retention to help reduce risk of leakage, strikethrough and maceration<sup>10,12</sup>. TIELLE™ Dressings are flexible and help give patients the confidence to carry on with normal activities, helping to improve patient quality of life<sup>13,14,15</sup>.

Figure 1



Faster management of a wound helps reduce the risk of delayed healing<sup>13,22</sup>, which in turn reduces the cost of managing complex wounds and the total cost of care associated with managing hard-to-heal wounds<sup>22</sup>.

Figure 1 references

- i. Broxton P et al. *Microbios*. 1984;41(163):15-22
- ii. Broxton P et al. *J Appl Bacteriol*. 1984; 57(1):115-24
- iii. Yasuda K et al. *J Microbiol Methods*. 2003;54(1):111-15.

# Evidence for TIELLE™ Dressings

A healthy human volunteer study wear time comparison (days)<sup>5</sup>

PAIN

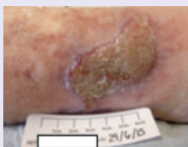


EXUDATE

An evaluation of a non-adhesive hydropolymer\* foam dressing on patients with differing wound aetiologies<sup>13</sup>.

TIELLE™ Non Adhesive Dressing:

- Holds exudate away from surrounding skin
- Conforms to the wound bed
- Is comfortable under compression.

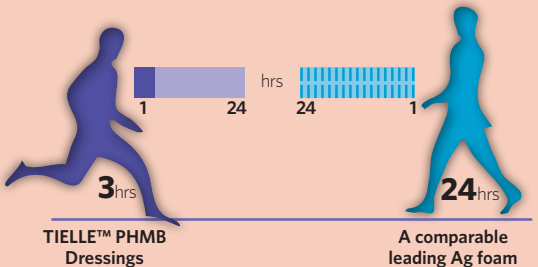


\*TIELLE™ Non Adhesive Hydropolymer dressing with LIQUALOCK™ Technology

INFECTION



*In vitro*, TIELLE™ PHMB Dressings kill more MRSA bacteria (99.999%) in 3 hours compared to other available dressings<sup>18</sup>



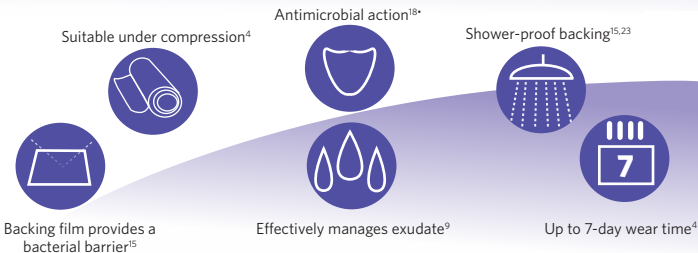
**TIELLE™ PHMB Dressings**

**A comparable leading Ag foam**

*A comparable leading Ag foam demonstrated only bacteriostatic activity against MRSA, with a 1.2log<sup>10</sup> (<90%) unit reduction at 24 hours*

# Hints and tips for skin-friendly removal

Skin-friendly dressing removal is one of the most highly desired characteristics of a dressing. Water or saline can aid skin-friendly removal of polyurethane adhesive used on TIELLE™ Plus Dressings by deactivating the polyurethane adhesive in the secure adhesive border. This can be achieved by lightly dabbing the underside of the adhesive border with a water or saline-soaked cotton swab. For more details please visit, [www.Systagenix.com/TIELLE-PLUSQG](http://www.Systagenix.com/TIELLE-PLUSQG).



## References

1. Price PE et al. Dressing-related pain in patients with chronic wounds: an international patient perspective. *IWJ* 2008; Vol 5(2):159-71
2. Romanelli M, Vowden K, Weir D. *Exudate Management Made Easy*. Wounds International 2010;1(2)
3. World Union of Wound Healing Societies (WUWHS), Florence Congress, Position Document. *Advances in wound care: the Triangle of Wound Assessment*. Wounds International 2016
4. Information for Use Leaflet
5. Lane T et al. *Evaluations of the Performance of a new Silicone Adhesive Foam Dressing*. Paper Presented SAWC, San Diego, USA, April 2017
6. Wounds International case series evaluation. *TIELLE™ Hydropolymer foam dressings in practice*. London: Wounds International, 2016 (Suppl)
7. World Union of Wound Healing Societies (WUWHS). *Principles of Best practice: Wound Exudate and the role of dressings. A consensus document*. London. MEP Ltd, 2007
8. Stephens S. *Evaluation of the Performance of a Non-Adhesive Foam Dressing for the Management of Wound Exudate*. Poster SAWC Spring 2015
9. Mellor J, Boothman S. *TIELLE™ hydropolymer dressings: wound responsive technology*. The Exudate Supplement Part two P14-17. *Br J Nurs* 12(20) & *Br J, Community Nurs* 8(11)
10. Schulze HJ. Clinical evaluation of TIELLE™ Plus dressing in the management of exuding chronic wounds. *BJCN* 2003; Nov 8 (Supp5):S18-22
11. Ballard, K. Clinical and scientific data of a hydropolymer range of dressings. *J Nursing* 2002; 11(20):37-43
12. Turton K et al. *Evaluation of the fluid handling properties of hydropolymer foam dressings for managing wound exudate*. Paper Wounds UK Harrogate 2011
13. Jones NJ, Hagelestein SM, Ivins NM et al. *An evaluation of a non-adhesive hydropolymer™ foam dressing on patients with differing wound aetiologies*. Welsh Wound Innovation Centre. Poster Wounds UK, Harrogate 2015
14. Guttormsen K, Chadwick P, Haycocks S (2015) Tielle® Non-Adhesive Hydropolymer Dressing in practice. *The Diabetic Foot Journal* 2015; 18:147-52
15. Aickin S et al. Evaluating Current in-vitro Assays for Assessing Fluid Handling Properties of Dressings and their Clinical Relevance. Poster, Wounds UK, Harrogate 2010
16. Dowsett C, Newton H. Wound bed preparation: TIME in practice. *Wounds UK*. 2005 Mar;1(3):58
17. *Antimicrobials Made Easy*. Wounds International 2011; Vol 2(1)
18. Westmorland M et al. *An in vitro evaluation of a new PHMB foam wound dressing*. Poster presented Wounds UK, Harrogate 2016
19. International Wound Infection Institute (IWII) Wound infection in clinical practice. Wounds International 2016
20. Data on file. Fluid Handling Capacity
21. Sezonov G, Joseleau-Petit D, D'Ari R. *Escherichia coli* physiology in Luria-Bertani broth. *J Bacteriol* 2007 Dec; 189(23):8746-9
22. Vowden P and Vowden K. The economic impact of hard-to-heal wounds: promoting practice change to address passivity in wound management. *Wounds International* 2016; 7(2):10-5
23. Diehm C and Lawall H. Evaluation of TIELLE™ hydropolymer dressings in the management of chronic exuding wounds in primary care. *IWJ* 2005; 2(1):26-35

\* For antimicrobial dressings only

Specific indications, contraindications, warnings, precautions and safety information exist for KCI Products and therapies. Please consult a clinician and product instructions for use prior to application.

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