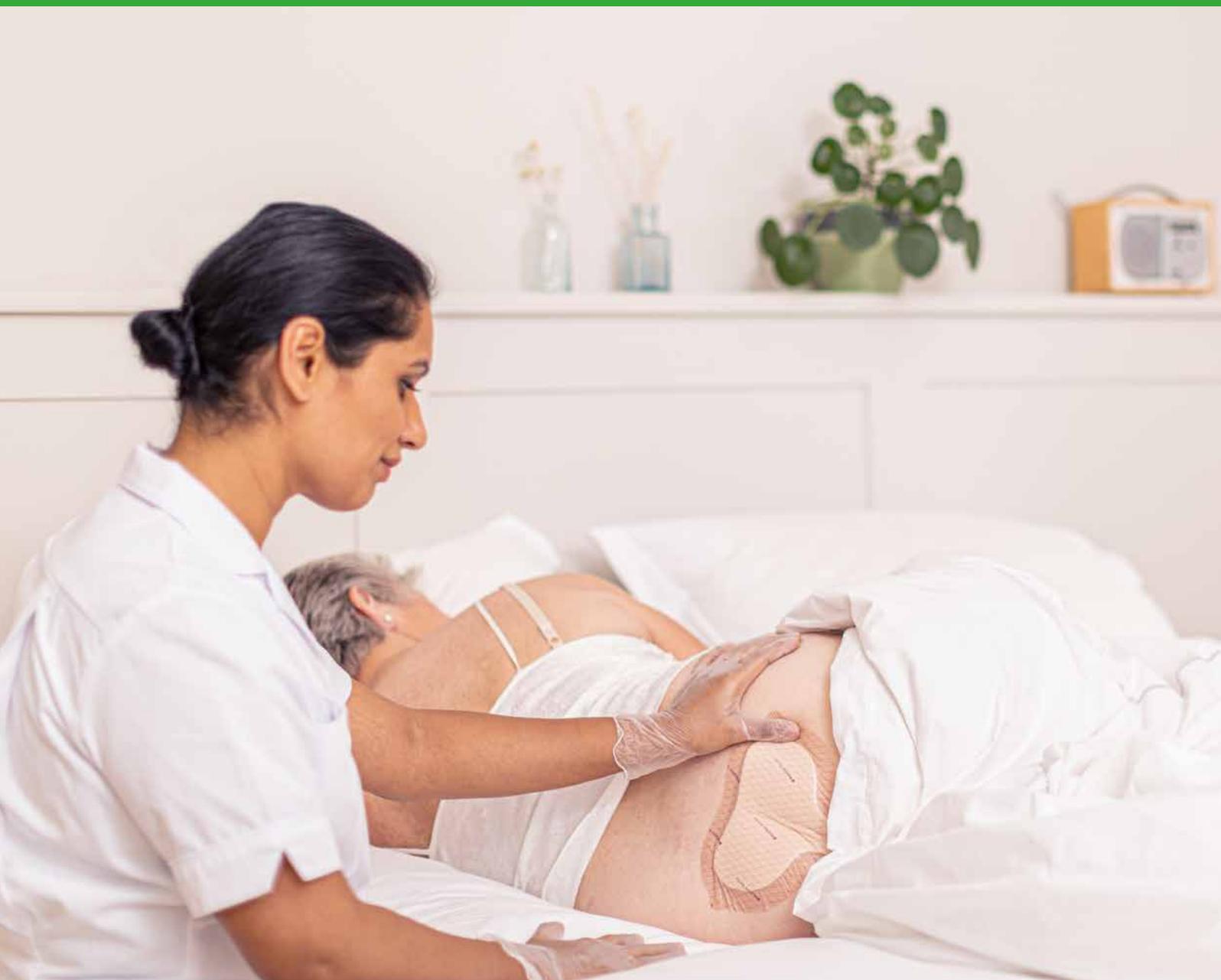


Key facts guide



Mepilex[®] Border Sacrum
Mepilex[®] Border Heel
Shaped for success


Mölnlycke[®]

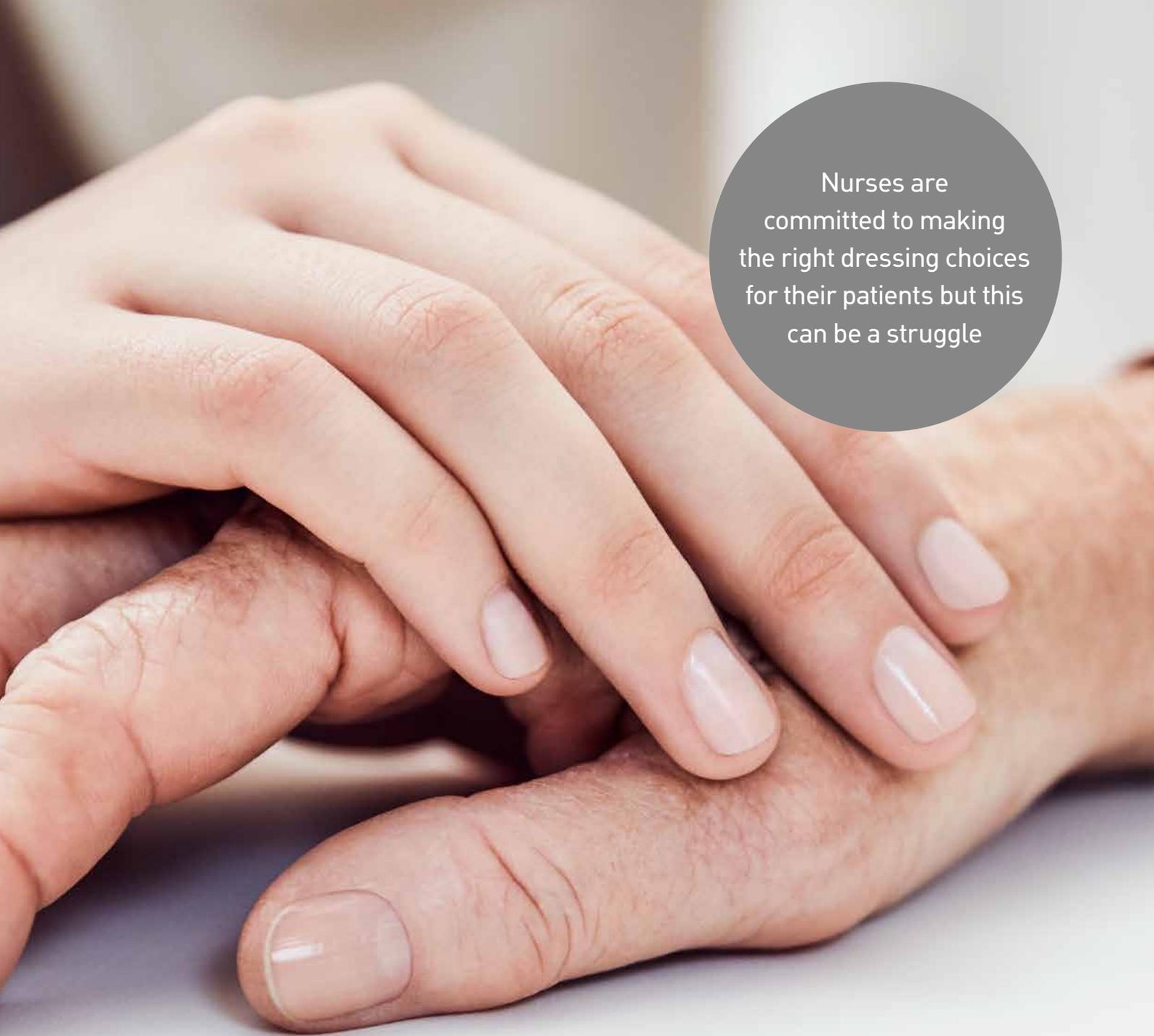
A common problem

Healthcare professionals agree that pressure injuries are a 'never-event.' Yet they continue to burden healthcare systems around the world, with dire consequences for patients and hospitals alike.

- Pressure injuries are one of the most common hospital acquired conditions¹ **affecting up to 23 per cent of hospital patients**².
- Today we face approximately **58 million pressure injuries**³ complications from which result in the deaths of 60,000 people every year in the US alone⁴.
- Individuals with pressure injuries have a **4.5x greater risk of death** than persons with the same risk factors but without pressure injuries⁵.
- Pressure injuries lead to **longer hospital stays:** 7 days compared to 3 days⁶
- **Treating pressure injuries can cost up to:** 3.6x more than prevention⁷

Pressure injuries are painful and embarrassing for patients, affecting their independence and quality of life⁸





Nurses are committed to making the right dressing choices for their patients but this can be a struggle

Pressure injuries are at the front of mind for nurses, who want to do what is best for their patients and are looking for new and improved ways to provide that care, setting them on the path to healing. As pressure injuries can develop in deep tissue, nurses may not be able to spot them in the early stages just by looking at the surface of the skin⁹.

The sacral and heel areas are the two most common places where pressure injuries occur and require active monitoring and management^{10,11}, **so timely and effective treatment, along with prevention where appropriate, are both vital to successful care strategies.**

Now with one proven solution

From proven prevention to effective treatment

Mölnlycke is a global market leader in providing solutions for pressure injury management and the Mepilex® Border Sacrum and Mepilex® Border Heel dressings are used by nurses worldwide, designed for treatment and optimised to prevent pressure injuries.

Same dressing for both treatment and prevention



Mepilex® Border Sacrum



Mepilex® Border Heel



For nurses,
Mepilex® Border Sacrum
and Mepilex® Border Heel
offer a **simple, effective and
gentle** way to manage
pressure injuries.

Shaped for success

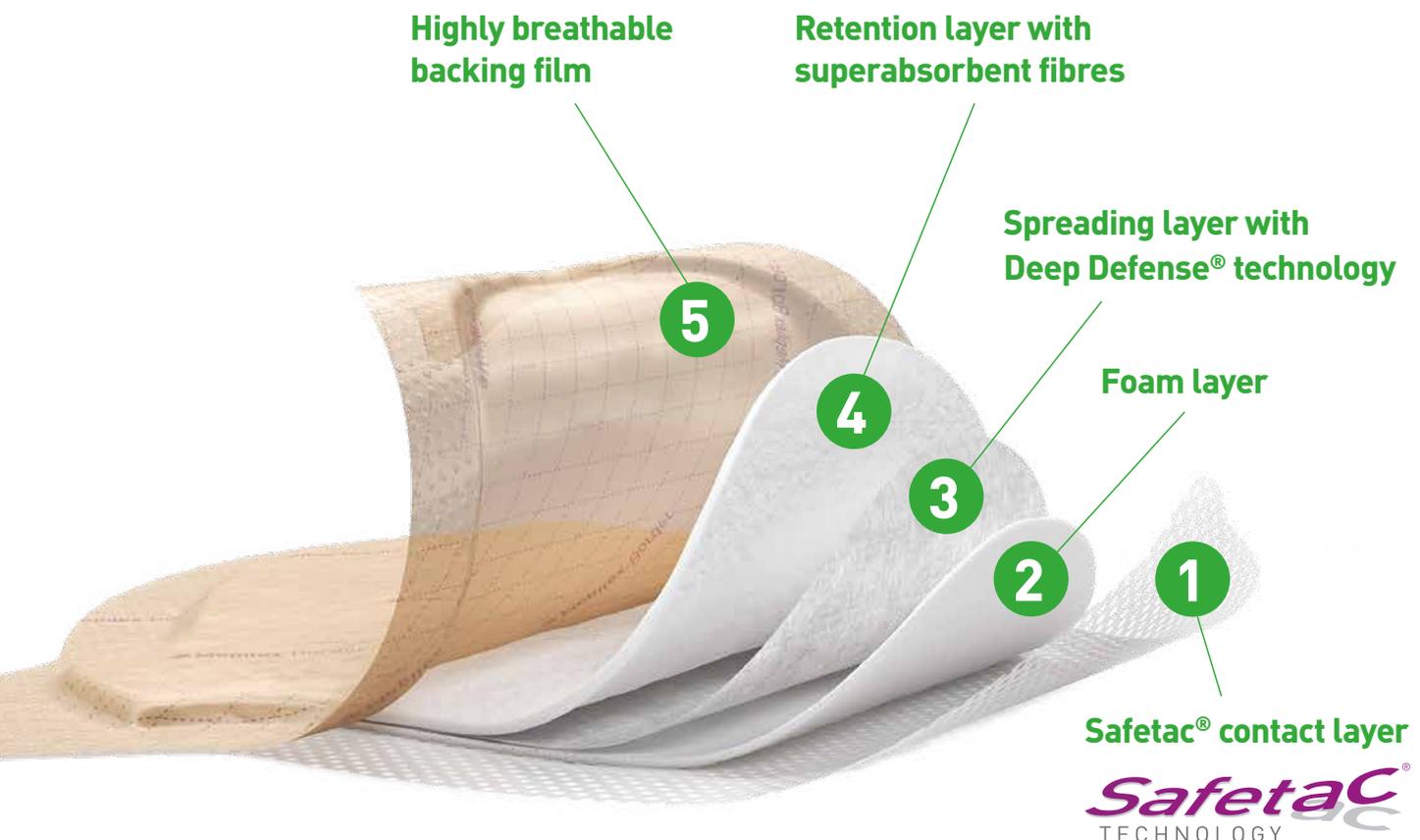
Unlike other dressings, the proprietary Mepilex® Border Sacrum and Mepilex® Border Heel are the only dressings with Deep Defense® technology, providing an optimal balance of strength and flexibility¹². This not only allows the dressing to provide optimal protection against shear in combination with other extrinsic factors, but also maintain its protective properties even with the absorption of sweat^{13,14}.

Easy to use

Thicker borders and handling tabs to facilitate easier application, inspection and removal.

Anatomically shaped

Dressing shapes optimized for enhanced coverage of high risk areas.



Designed for treatment

Trusted clinical experience

Through clinical experience we know what wound dressings need to do – absorb, retain, protect and last – so the body can start it's healing faster.

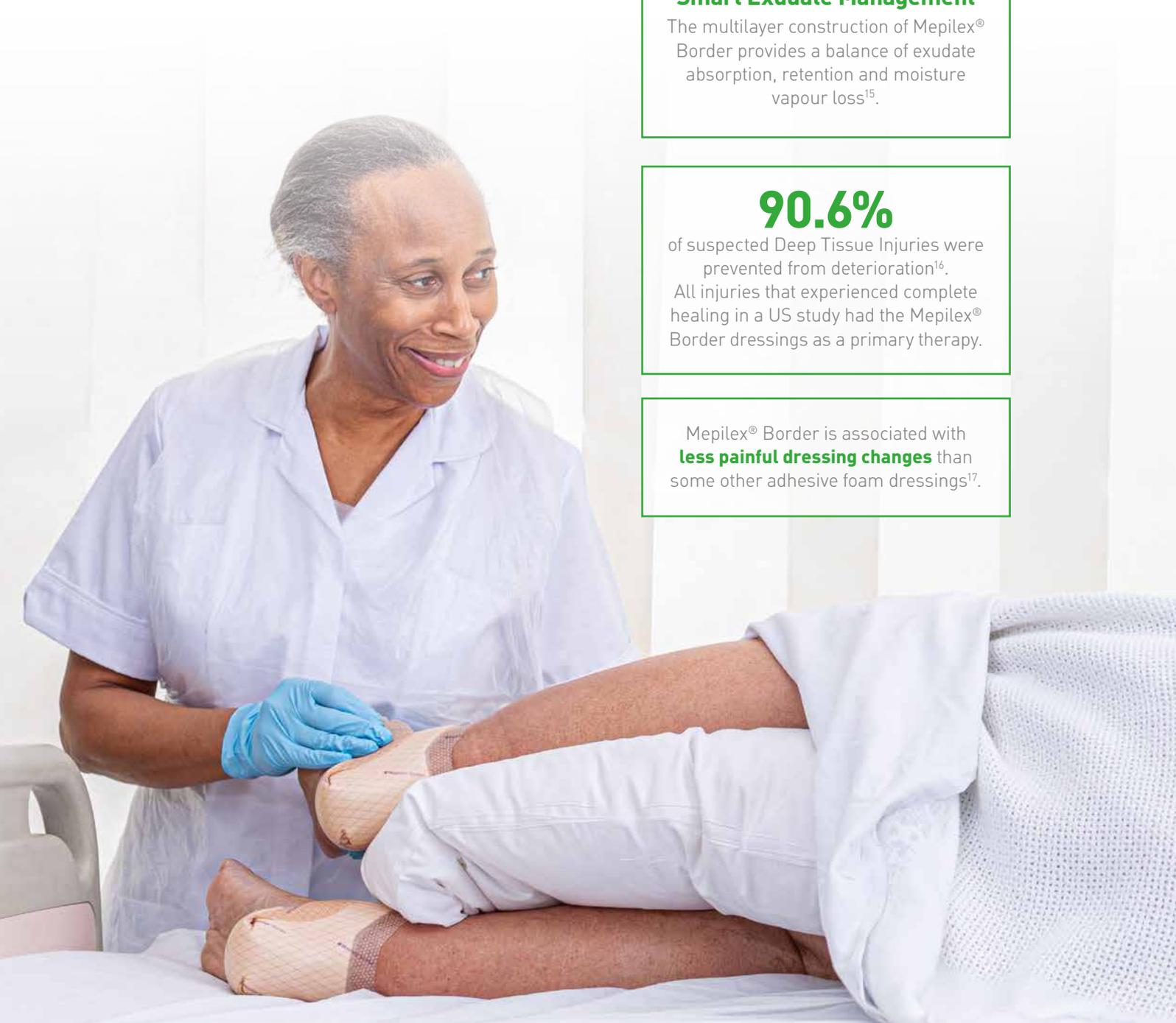
Smart Exudate Management

The multilayer construction of Mepilex® Border provides a balance of exudate absorption, retention and moisture vapour loss¹⁵.

90.6%

of suspected Deep Tissue Injuries were prevented from deterioration¹⁶. All injuries that experienced complete healing in a US study had the Mepilex® Border dressings as a primary therapy.

Mepilex® Border is associated with **less painful dressing changes** than some other adhesive foam dressings¹⁷.



The dressing's 5-layer construction is unique with each layer supporting and protecting your patients not only from pain, through our Safetac® technology¹⁷, but also supporting patient comfort via superior conformability¹⁸ and exudate management¹⁵.

Optimised **gluteal seal** for protection of high-risk sacral areas

Optimisation of dressing shapes for **coverage** of the most vulnerable anatomical places

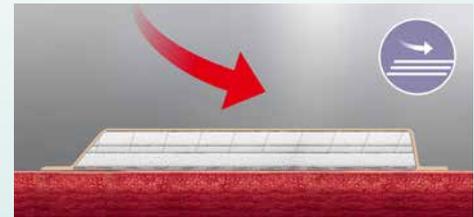
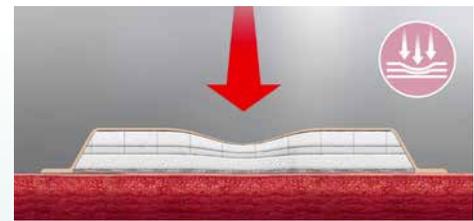


Treatment of pressure injuries

Mepilex® Border Sacrum dressings can help protect an existing sacral wound and surrounding tissues from extrinsic forces during the healing process¹⁹. Mepilex® Border Sacrum can have a greater effect on reducing high stresses in soft tissue over the coccyx surrounding an existing wound than dressings that were completely stiff or completely flexible in both directions.

Absorption and redistribution of forces

Dressing layers interact to reduce pressure and shear being transferred to soft tissues beneath¹².



Optimised to prevent

Proven for pressure injury prevention

Mepilex® Border dressings have more, high level evidence demonstrating their effectiveness in preventing pressure injuries than the competitor multi-layer foam dressings combined*²⁰.

USD 77

reduction
in per-patient
treatment costs²¹

88%

relative reduction
in sacral pressure
injuries²²

USD 200–600,000

potential annual savings in an
average academic medical centre²¹

*Competitor dressings include Allevyn® Life, Aquacel® Foam, Optifoam® Gentle and Biatain® Silicone.



Proprietary Deep Defense® technology – Strength and flexibility, in perfect balance

Strength and flexibility are equally important properties in a dressing for pressure injury prevention. But they are also opposites, how can one dressing offer both? The key is our proprietary Deep Defense® technology.

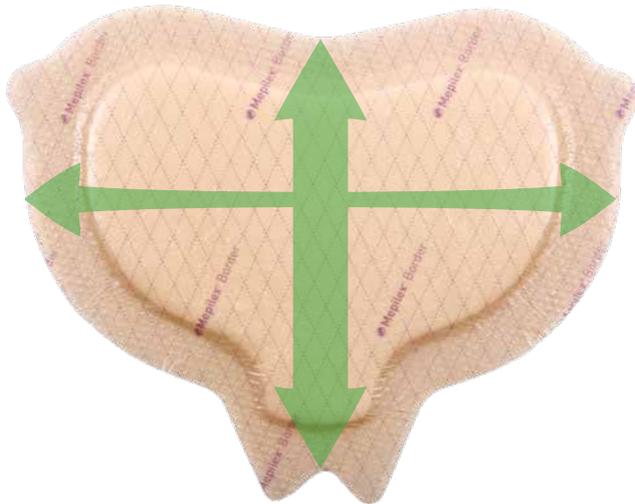
Every dressing needs to be comfortable. That means having the flexibility to conform to the patient's body, allowing natural movement of the tissues. But unless the dressing is also strong in the right places, it will not effectively protect against extrinsic factors such as pressure, shear and friction¹². Only

our proprietary Deep Defense® technology balances vertical strength in the patient sliding direction, and flexibility in the lateral direction – a combination that has been scientifically shown to better protect patient tissues from deformation, one of the key causes of pressure injuries⁸.



Mepilex® Border – Strong and flexible

Mepilex® Border Sacrum and Mepilex® Border Heel combine vertical strength with horizontal flexibility. The scientific term for this is 'anisotropy'. This proprietary construction makes Mepilex® Border very effective at protecting against shear in combination with other extrinsic factors responsible for pressure injuries¹².



Mepilex® Border Sacrum

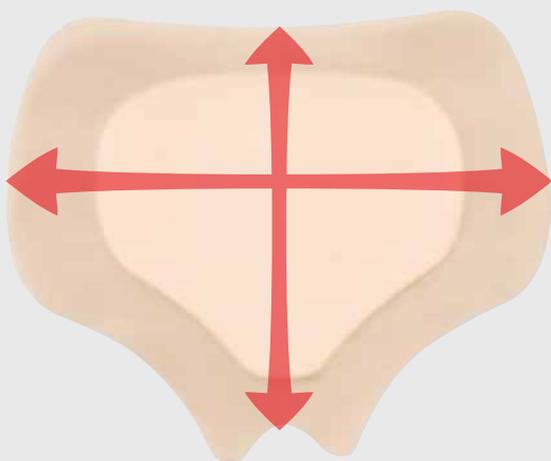
Deep Defense® technology (anisotropy/strength and flexibility) does three things:

- 1 Protects against combination of extrinsic factors (pressure, shear, friction)¹².
- 2 Maintains structural Integrity and durability through wear time¹⁴.
- 3 Provides flexibility, allowing good conformability and lateral movement which occurs naturally¹².

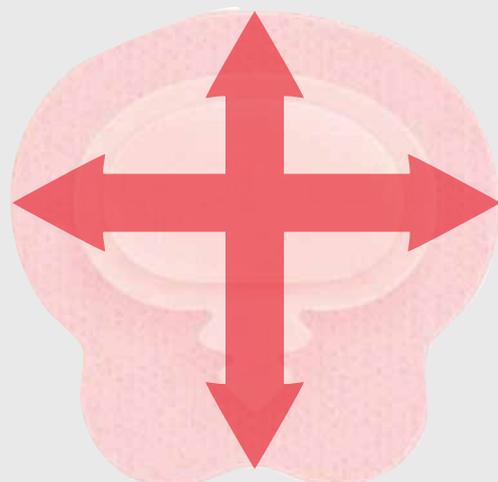
Other dressings

Other 5-layer foam dressings have a very different construction. Some are just stiff in all directions, and some are flexible in all directions.

The scientific term for this is 'isotropy'. Latest scientific research has shown that none of these dressings are able to protect soft tissues as well as Mepilex® Border^{12,23}.



Aquacel® Pro Sacrum



Allevyn® Life Sacrum

Scientific evidence

Finite Element modeling (FEM): A clinically relevant method to measure protective properties of prevention foam dressings.

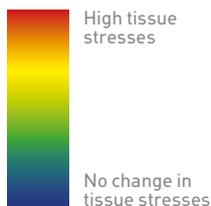
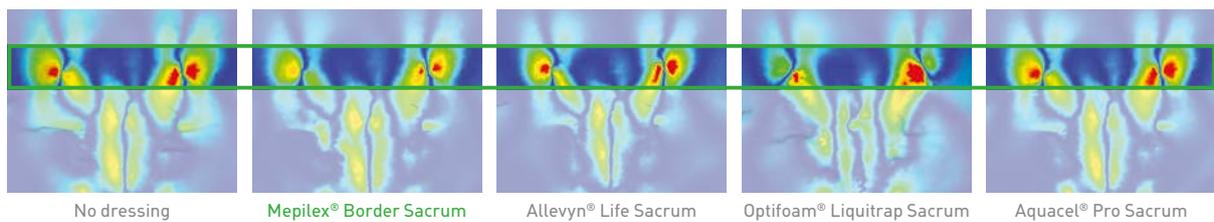
FEM is a well-established, advanced computer simulation programme, used in the medical devices industry to study affects of multiple external forces on human tissues e.g. orthopaedics, cardiovascular fields.

Research has shown tissue deformation to be one of the primary causes of pressure injuries. As this science has developed, new literature has been published supporting the use of FEM as a

more clinically meaningful assessment of how a combination of extrinsic factors such as pressure, shear and friction can affect tissue deformations¹².

FEM studies have shown Mepilex® Border reduces stresses at the soft tissue level more than competitor dressings, when the patient is subjected to a combination of extrinsic factors mimicking real-world situations^{12,23}.

FEM model of the impact of compression and shear in the muscles at the end of day 1²³



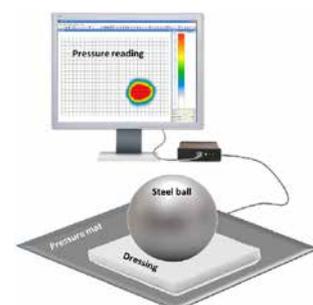
▼ 90–100% reduction with Mepilex® Border Sacrum

▼ 0–10% reduction with other dressings

How does this compare to interface pressure mapping?

In a recent publication, interface pressure mapping has been criticised as a non-anatomical test methodology with little clinical relevance²⁴.

- Maps the skin surface only
- Ignores soft tissue deformations – the primary cause of pressure injuries
- Ignores shear – one of the primary causes of tissue deformations

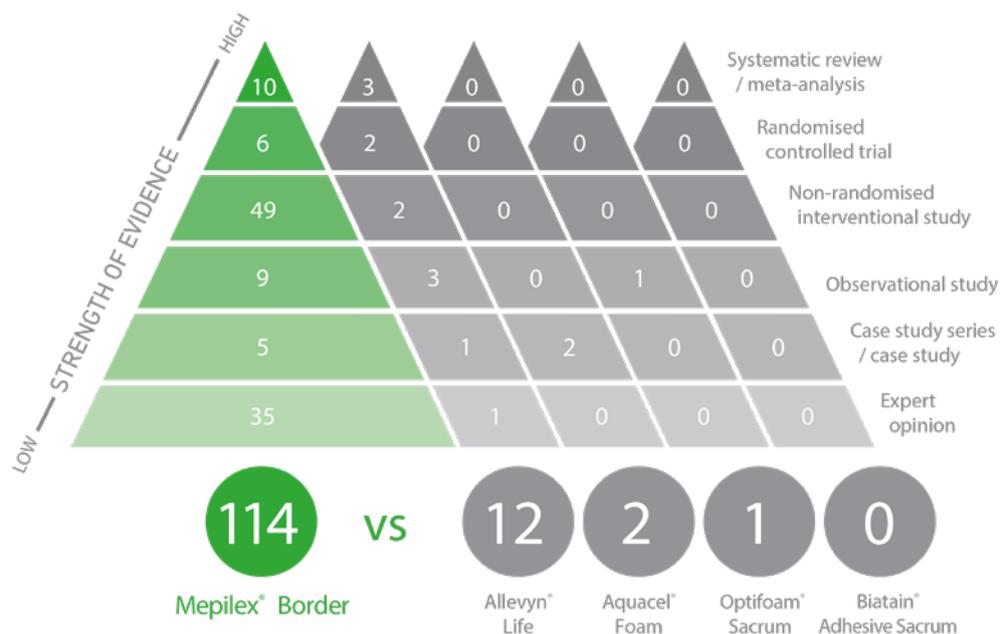


Clinical evidence

Mepilex® Border has over 100 evidence pieces²⁰ including multiple randomised controlled trials demonstrating the isolated effect of dressings in preventing pressure injuries in different settings^{22, 25-28}.

Pressure injury prevention – sacrum and heel dressings

Mepilex® Border dressings have more, high level evidence demonstrating their effectiveness in preventing pressure injuries than the competitor multi-layer foam dressings combined²⁰.



Multiple RCTs^{22, 25-28} demonstrate the isolated effect of Mepilex® Border dressings in reducing the incidence of pressure injuries, including:

- Kalowes et al RCT²² – **88% relative reduction** in sacral pressure injuries
 - HAPU rates decreased from 3.8% to 0.5%
 - Statistically significant results at p=0.001
- Hahnel et al RCT²⁸ – **74% relative reduction** in sacral and heel pressure injuries, category 2 or worse
 - HAPU rates decreased from 10.5% to 2.8%
 - Statistically significant results at p=0.001
 - 0 heel pressure injuries observed in intervention group

Did you know?

Mepilex® Border is the only clinically proven prevention dressing with multiple randomised controlled trials^{22, 25-28} demonstrating the isolated benefits of the dressing and a proven number needed to treat (NNT)²⁶

Santamaria Border study 2015 ►



Economic evidence

Demonstrating significant economic impact in a cohort of over 1 million patients²¹

In a study by William Padula, Johns Hopkins Bloomberg School of Public Health (Baltimore, MD, USA)²¹, examining reportable hospital acquired pressure injury outcomes in 38 academic medical centres (AMCs) over a 6-year period, involving a cohort of 1.03 million high-risk patients, use of Mepilex® Border saw a reduction of 4 reportable pressure injuries per year in an average AMC. **The results shows:**



4 patients saved per year

from serious pressure injuries per facility. Average reduction was one reportable pressure injury per quarter

Possibly USD 200,000-600,000 saved per year

in treatment expense per hospital, in addition to avoiding reimbursement penalties for reportable pressure injuries

USD 77

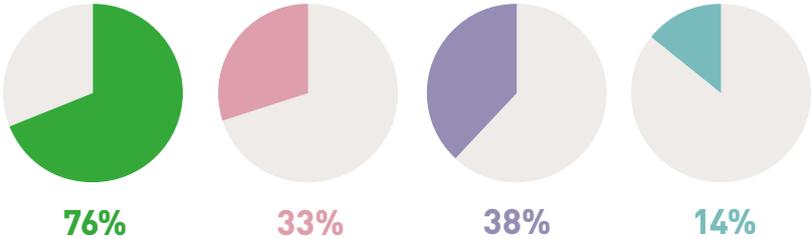
reduction in per-patient treatment costs

100%

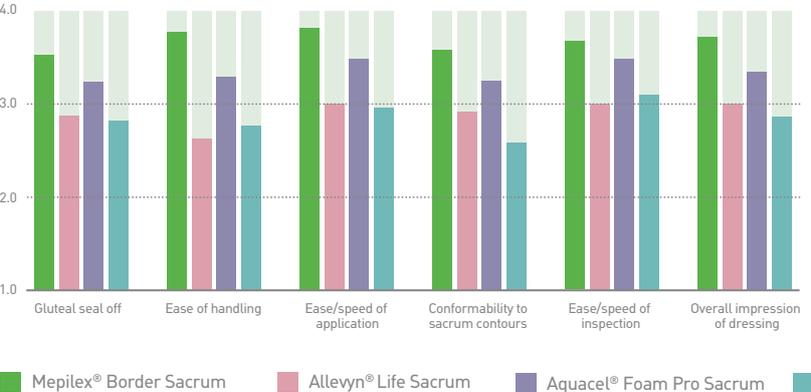
Return On Investment within 1 year

What nurses say about our user features

Sacral dressings

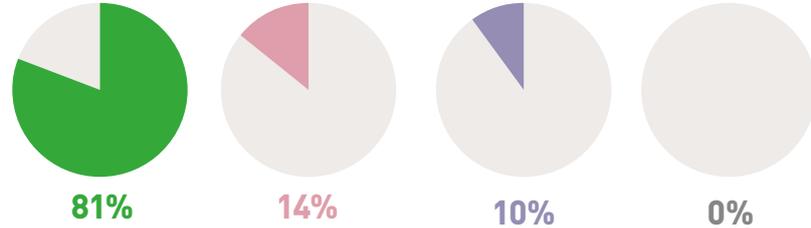


Overall impression of nurses comparing commonly used foam dressings. Charts show % 'very good' scores¹⁸ for each dressing.

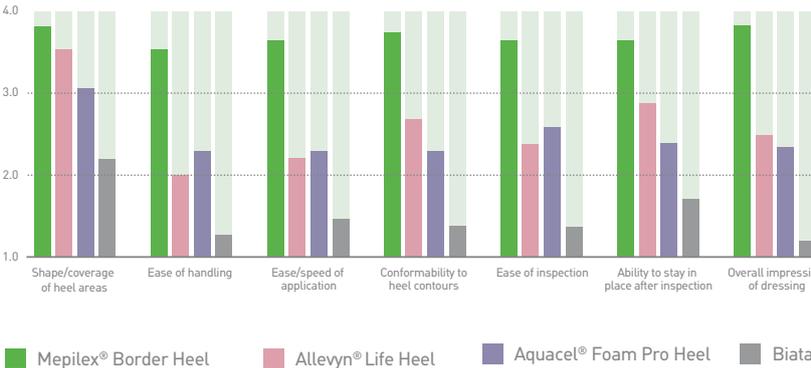


Ease of use

Heel dressings



Overall impression of nurses comparing commonly used foam dressings. Charts show % 'very good' scores¹⁸ for each dressing.



Ease of use

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