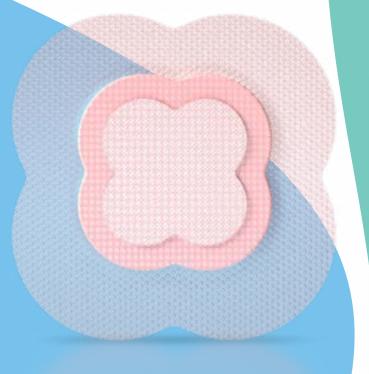
→ A comprehensive guide to using ALLEVYN<sup>o</sup> Dressings to prevent pressure injuries in at-risk hospital patients

## Smith-Nephew

ALLEVYN LIFE
Foam Dressing

ALLEVYNOGENTLE BORDER
Foam Dressing



Helping you get **CLOSER TO ZERO**<sup>o</sup> pressure injuries.<sup>1,2</sup>

## Contents

1. L	Jnderstanding pressure injuries	3
	Understanding pressure injuries	
	How pressure injuries develop	
	Choose a dressing designed for prevention	
2. <i>F</i>	ALLEVYN° LIFE	
F	oam Dressings	6
	The ALLEVYN LIFE difference	
	Performance under pressure	7
	Sizes and designs	8
3. <i>F</i>	ALLEVYN GENTLE BORDER	
F	oam Dressings	9
	ALLEVYN GENTLE BORDER Dressing	
	Sizes and designs	10
4. F	Risk factors	12
	Intensive Care Unit (ICU) patients	12
	Operating Room (OR) patients	
	Emergency Department (ED) patients	
5. <u>C</u>	Ordering codes	 18

# Understanding the impact of pressure injuries

Pressure injuries are among the 10 most common hospital-acquired conditions with a 10% incidence rate among at-risk patients.<sup>3</sup>

Patients with HAPIs in ANZ:

Costs the Australian healthcare system approximately

\$1.8 billion annually

and the New Zealand healthcare system approximately

\$694 million annually10

Spend an extra

4.3 days in hospital4

· 4-6x

Greater risk of in-hospital mortality

HAPI complications can be life threatening,<sup>4</sup> painful and distressing,<sup>5</sup> impacting patients, their family, caregivers and frontline staff<sup>3</sup>

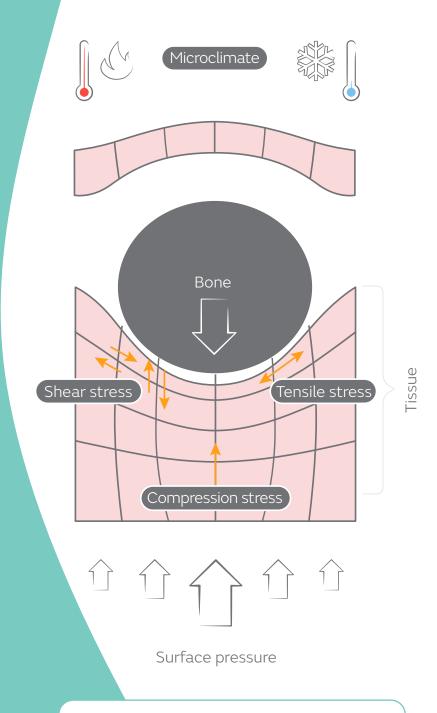


# How pressure injuries develop

A pressure injury is defined as localised skin/underlying tissue damage as a result of pressure or pressure in combination with shear. Pressure injuries usually occur over a bony prominence or related to medical device use<sup>6,7</sup>

## Factors contributing to pressure injury onset include:<sup>6,7</sup>

- Pressure
- Friction
- Shear
- Microclimate



Pressure can distort or deform skin and soft tissues, which is even greater when pressure is applied over a bony prominence

# Choose a dressing designed for prevention

### Prophylactic dressings differ in quality. Considerations should include:<sup>6</sup>

- Appropriate size and dressing design
- Ability to manage moisture
- Ease of application and removal
- Ability of the dressing to stay in place
- Ability to routinely lift the dressing for skin inspection
- Preferences, comfort and allergies of the at-risk individual
- Co-efficient of friction at the dressing interface
- Cost-effectiveness

Dressings should be used in conjunction with other preventive measures.

International guidelines recommends the use of foam dressings as part of a comprehensive pressure injury prevention program and should be applied as early as possible in the care pathway.<sup>6</sup>



### The ALLEVYN LIFE difference

ALLEVYN LIFE Foam Dressing is an all-in-one dressing for wound management and pressure injury prevention<sup>1\*</sup>

Unique five-layer construction redistributes pressure<sup>8†</sup>

**Breathable top film** with a bacterial and showerproof barrier, 9-13 as well as a low friction coefficient to reduce the generation of shear 14†

**EXUMASK** Discretion Layer

**Hyperabsorbent lock-away** layer - with **EXULOCK**° Technology to help minimise leakage<sup>10,15,16</sup>

**Highly absorbent**<sup>10,17</sup> hydrocellular foam layer

The soft silicone adhesive wound contact layer balances **adherence and gentleness**, enabling the dressing to be **lifted and repositioned** to facilitate skin inspections, and helping to **minimise pain** during dressing changes<sup>13,18,19</sup>

Nearly

2 X

longer wear time
than other compared
standard dressings<sup>20‡</sup>



Up to **5 days wear** on the sacrum Up to **7 days wear** on other locations<sup>9,13,19</sup>

\*As part of a comprehensive pressure injury intervention protocol †As demonstrated in laboratory testing ‡n=37; dressing retention was 1.92 longer §n=118

#### Available in a wide range of shapes and sizes,

helping to reduce complexity in dressing choices.

ALLEVYN LIFE Dressings are conformable<sup>15,21</sup>

and comfortable.<sup>15,22</sup> **92% of HCPs** 

**would recommend** ALLEVYN LIFE Dressings within their healthcare organisation.<sup>23,§</sup>

## Performance under pressure

Compared to standard preventive care alone, ALLEVYN° LIFE Dressing has been shown to:

Reduce incidence of sacral pressure injuries by up to **719** 

Produce per-patient estimated cost savings between

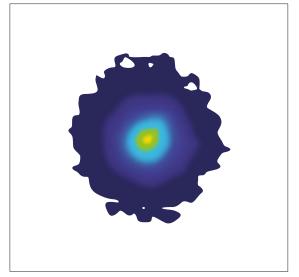
38% to 69%<sup>24</sup>

#### Redistributes pressure more than leading competitors.8\*

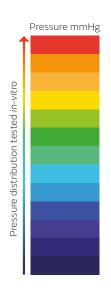
Pressure can deform skin and soft tissues, especially over a bony prominence. Pressure injuries may occur both with short durations of high levels of pressure, and with long durations of lower levels of pressure.<sup>6</sup>

ALLEVYN LIFE Dressings significantly spread the pressure over a greater contact area, and showed lower average and peak pressures when compared to other foam dressings.<sup>8</sup>\*

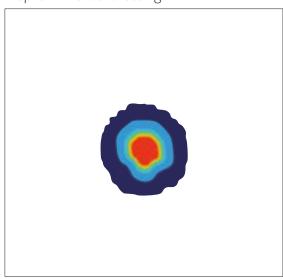
#### **ALLEVYN<sup>o</sup> LIFE** Dressing



Pressure redistribution wound contact side Average pressure: 71mmHg. Contact area: 18.4cm<sup>2</sup> Mean peak pressure: 552mmHg Tested on dry dressings using a 2.1kg weight



#### Mepilex<sup>™</sup> Border dressing



Pressure redistribution wound contact side Average pressure: >178mmHg. Contact area: 6.6cm<sup>2</sup> Mean peak pressure: >827mmHg Tested on dry dressings using a 2.1kg weight

Pressure mapping is a demonstration measuring only pressure and does not replace the need for clinical evidence of effectiveness.

# ALLEVYN<sup>o</sup> LIFE Dressings work with a variety of medical devices including:



Cervical collar (front)

Area at risk: chin, jaw, clavical, occiput



Multi-podus boot

Area at risk: top/bottom foot, heel, calf





Cervical collar (back)

Area at risk: spine, shoulder blades





Foot pump
Area at risk: achilles, top/bottom foot





Cervical collar (back)
Area at risk: occiput





Sequential compression device (SCD)







Brace
Area at risk: hand



ALLEVYN LIFE Dressings offer benefits in a variety of hospital settings.

See how it can help in the:

Available in three unique designs and multiple sizes to fit your pressure injury prevention and/or wound management needs.



Dressing





ALLEVYN LIFE Heel Dressing

# ALLEVYN° GENTLE BORDER Foam Dressings

## A versatile dressing to protect skin under medical devices

ALLEVYN GENTLE BORDER Dressings are versatile, conformable and easy to cut,<sup>25-29\*</sup> making it ideal to protect skin under medical-devices. The multi-way stretch helps application on awkward areas and joints.<sup>25-27,29</sup>

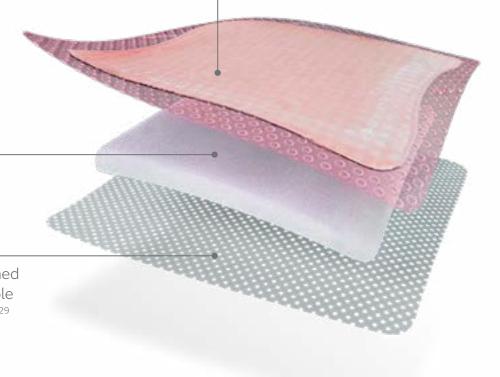
#### Breathable top film<sup>26,27</sup>

allows evaporation of fluid. The top layer is showerproof<sup>30</sup> and has a bacterial barrier<sup>31</sup>

Highly absorbent<sup>26,27</sup> foam layer

#### Gentle silicone adhesive<sup>25</sup>

allows the dressing to be repositioned upon initial application<sup>32</sup> and suitable for use on fragile and sensitive skin<sup>29</sup>



<sup>\*</sup>Cutting will compromise the bacterial barrier properties of the dressing. Always use an aseptic technique. Ensure any exposed foam areas are covered with an appropriate film dressing taking care not to cover the entire dressing

# ALLEVYN° GENTLE BORDER Dressings work with a variety of medical devices

One in three pressure injuries in hospitalised adult patients are related to medical devices<sup>33</sup>

Medical-device related pressure injuries are more commonly associated with devices such as endotracheal and nasogastric tubes, oxygen tubing, non-invasive ventilation masks (CPAP/BiPAP), urinary catheters among others



Cervical collar (front)

Area at risk: chin, jaw, clavicle, occiput





Cervical collar (bαck)

Area at risk: occiput





Nasogastric tubes/(hi flo) nasal cannulas Area at risk: nose, upper lip, cheek, ear



A A

Trach flange

Area at risk: neck





Non-invasive positive pressure ventilation (NIPPV)/CPAP

Area at risk: forehead, nose, cheek, chin







Gastric tube

Area at risk: stomach





Multi-podus boot

Area at risk: top/bottom foot, heel, calf





Brace
Area at risk: hand





Multi-podus boot

Area at risk: top/bottom foot, heel, calf





Sequential compression device (SCD)

**Area at risk:** lateral anterior ankle, achilles, top of foot



ALLEVYN GENTLE BORDER Dressings offer benefits in a variety of hospital settings.

See how it can help in the:



# Available in a wide range of shapes and sizes to fit your pressure injury prevention and/or wound management needs.



ALLEVYN GENTLE BORDER Square Dressing



ALLEVYN GENTLE BORDER Sacrum Dressing



ALLEVYN GENTLE BORDER Heel Dressing



ALLEVYN GENTLE BORDER Multisite Dressing

# Common pressure injury risk factors for ICU patients<sup>6,34</sup>

#### Know these additional risk factors

- 1. Age and skin status
- 2. Length of stay
- 3. Immobility or limited mobility
- 4. Vasopressor use
- 5. Severity of illness

- Acute physiology and chronic health evaluation (APACHE II) score
- 7. Mechanical ventilation
- 8. Presence of a medical device

Q Q —

# Follow these guidelines to help protect patients from pressure injuries<sup>6,34</sup>

- Identify at-risk patients<sup>6,34</sup>
  - The Braden score most widely used risk assessment tool, is made up
    of six subscale categories. The lower the score, the greater the risk.
     Individuals are considered at risk with a score of 18 or less.
  - Other risk assessment scales include Norton and Waterlow scores
- Inspect skin thoroughly and often
- Adhere to your institution's pressure injury prevention guidelines
- Appropriately document your efforts
- Work together to streamline prevention processes
- Use a soft silicone multi-layered foam dressing to protect the skin of individuals at risk for pressure injuries—continue to implement other preventive measures when using dressings

#### Did you know?



Nearly

60%

of pressure injuries are acquired in the ICU<sup>35</sup>

1 in 3

pressure injuries in hospitalized adult patients are related to medical devices<sup>33</sup>

See how ALLEVYN<sup>o</sup> LIFE Dressings can work with a variety of medical devices

See how ALLEVYN° GENTLE BORDER Dressings can work with a variety of medical devices

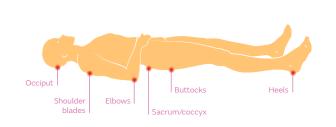
## Common points of pressure<sup>6</sup>

#### Most common locations:

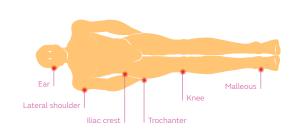
- Sacrum
- Buttocks
- Occiput

- Back
- Heels
- Elbows

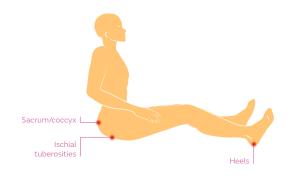
#### Supine position



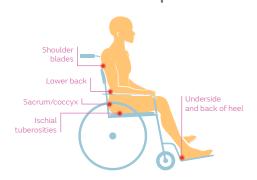
#### Lateral position



#### **Sitting position**



#### Wheelchair position



#### Protection against device-related injuries<sup>33</sup>

Device	Area at risk
(NIPPV) Non-invasive positive pressure ventilation/BIPAP	Forehead, nose, cheeks
Nasotracheal tubes/nasal cannulas	Nose, cheeks, ears
Wrist brace	Hands
Nasal cannula/oximetry probe	Ears
Cervical collar	Chin, clavicle

# Common pressure injury risk factors for OR patients<sup>6,36</sup>

#### Know these additional risk factors

- Duration of time prior to surgery

   Individuals who were immobile
   and had a delay in surgery of
   more than 12 hours were 1.6-1.7
   times more likely to develop a PI<sup>6</sup>
- 2. **Duration of surgery**. A procedure lasting longer than 3 hours
- 3. American Society
  of Anesthesiologists (ASA)
  physical status classification ASA score of III or IV were more
  than four times more likely to
  develop a pressure injury
- 4. Other surgical factors anesthesia type, no. of surgeries, positioning



Follow these guidelines to protect patients from pressure injuries<sup>6,36-38</sup>

Use validated screening tools to identify at-risk patients<sup>37,38</sup>

 Use Scott Triggers to identify patients at high risk<sup>37</sup> (two or more of the following)

Age greater than 62 years

- 1. Serum albumin < 3.5 g/dL
- 2. ASA Score ≥3
- 3. Anticipated time in the OR >3 hours (180 minutes)
- Use the Munroe Tool to determine the patient's risk throughout the perioperative period<sup>38</sup>
  - 6 pre-operative risk factors
  - 7 intra-operative risk factors
  - 2 post-operative (PACU) risk factors
  - Score of 1-3 for each
  - Calculations and interpretation of scores provided on the tool

Did you know?





48%

increase in risk of PI development with each additional hour beyond the first 60 minutes<sup>36</sup>

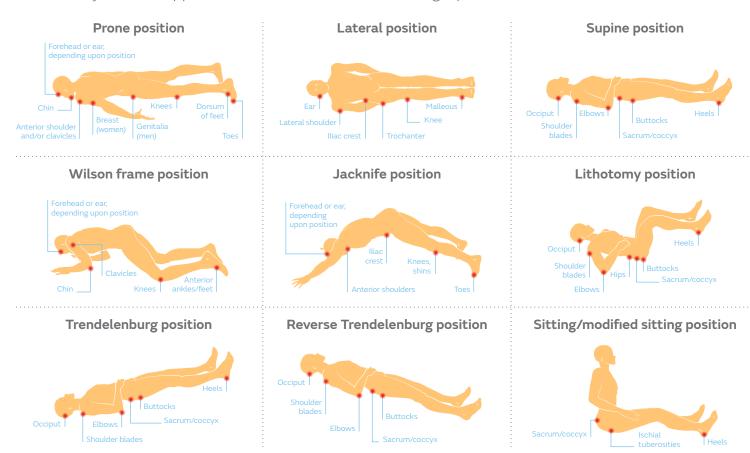
See how ALLEVYN<sup>o</sup> LIFE Dressings can work with a variety of medical devices

See how ALLEVYN° GENTLE BORDER Dressings can work with a variety of medical devices

- Adhere to your facility's pressure injury prevention guidelines
- Perform a thorough assessment of skin condition before, during and after surgery
- Appropriately document your efforts
- Work together to streamline processes related to prevention
- Use a soft silicone multi-layered foam dressing to protect the skin of individuals at risk for pressure injuries—continue to implement other preventive measures when using dressings

# Common points of pressure 6,39

Pressure injuries can appear within 48 to 72 hours after surgery.



Most common locations of pressure injuries:<sup>17</sup> • Ischium (28%) • Sacrum (17-27%) • Trochanter (12-19%) • Heel (9-18%)

Device	Area at risk
(NIPPV) Non-invasive positive pressure ventilation/BIPAP	Forehead, nose, cheeks
Nasotracheal tubes/nasal cannulas	Nose, cheeks, ears
Wrist brace	Hands
Nasal cannula/oximetry probe	
Cervical collar	Chin, clavicle
Splint	
Straps	Ankles, arms, hips, etc.
Backboard	Occiput, shoulders, back

# Common pressure injury risk factors for ED patients<sup>6,40-42</sup>

#### Know these additional risk factors

- 1. Advanced age
- 2. Dehydration and poor nutrition
- 3. Moist skin
- 4. Braden score
- 5. Poor sensory reception
- 6. Comorbid conditions (diabetes, pulmonary disease)
- 7. Use of medical devices (e.g. cervical collar)
- 8. Poorly padded ED equipment and restrictive positioning
- 9. Prolonged immobilisation
- 10. Head-of-bed elevation



# Follow these guidelines to help protect patients from pressure injuries<sup>6,42</sup>

- Timeliness is essential pressure injuries can develop in as little as two hours
- Identify patients at high risk using
  - The Norton Scale (score <14)
  - The Braden Scale (score <18)
  - Other risk-assessment tools
- Inspect skin thoroughly and often
- Application of a prophylactic dressing should be initiated as early as possible in the care pathway, i.e. in the Emergency Department
- Adhere to your institution's pressure injury prevention guidelines
- Appropriately document your efforts
- Work together to streamline prevention processes
- Use a soft silicone multi-layered foam dressing to protect the skin of individuals at risk for pressure injuries—continue to implement other preventive measures when using dressings

#### Did you know?



Nearly

24%

Emergency Department (ED) patients are over 60 years old, with multiple comorbidities and medical illnesses<sup>40</sup>

99.2%

of patients who developed a pressure injury were in the ED for more than two hours<sup>41</sup>

See how ALLEVYN<sup>o</sup> LIFE Dressings can work with a variety of medical devices

See how ALLEVYN° GENTLE BORDER Dressings can work with a variety of medical devices

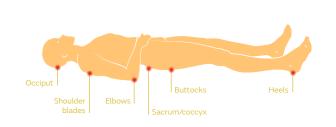
# Common points of pressure 6,42

#### Most common locations<sup>6</sup>

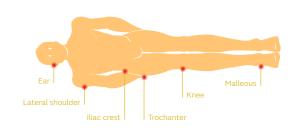
- Sacrum
- Buttocks
- Occiput

- Back
- Heels
- Elbows

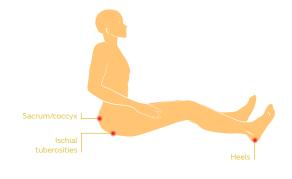
#### **Supine position**



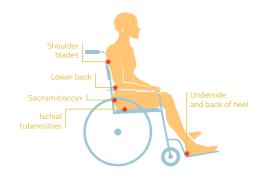
#### Lateral position



#### **Sitting position**



#### Wheelchair position



#### Most common risk areas related to medical device injuries<sup>33</sup>

Device	Area at risk
Cervical collar	Chin, clavicles
Wrist brace	Hands
Splint	Heels
Wraps	Elbows
Straps	Ankles
Backboard	Occiput, shoulders, back

### Ordering information



	Q c y				
ALLEVYN° LIFE Dressings					
10.3cm x 10.3cm	10				
12.9cm x 12.9cm	10				
15.4cm x 15.4cm	10				
21cm x 21cm	10				
Heel 25cm x 25cm	5				
Small Sacrum 7.2cm x 17.5cm	10				
Large Sacrum 21.6cm x 23cm	10				
	10.3cm x 10.3cm 12.9cm x 12.9cm 15.4cm x 15.4cm 21cm x 21cm Heel 25cm x 25cm Small Sacrum 7.2cm x 17.5cm				

\*Also available as ALLEVYN Ag GENTLE BORDER Antimicrobial Foam Dressing

For detailed product information, including indications for use, ingredients, directions, contraindications, precautions, warnings, and/or important safety information, please consult each product's package labeling, Instructions for Use (IFU), and/or Drug Facts prior to use.

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Code	Description	Qty			
ALLEVYN® GENTLE BORDER Dressings					
66800269*	7.5cm x 7.5cm*	10			
66800270*	10cm x 10cm*	10			
66800900	10cm x 20cm	10			
66800264	10cm x 25cm	10			
66800265	10cm x 30cm	10			
66800272*	12.5cm x 12.5cm*	10			
66800273*	17.5cm x 17.5cm*	10			
66800506	Heel 23cm x 23.2cm	5			
66800898	Small Sacrum 16.8cm x 17.1cm	10			
66800959	Multisite 17.1cm x 17.9cm	10			

#### **Smith**Nephew

Helping you get CLOSER TO ZERO<sup>⋄</sup> pressure injuries.1,2

For detailed product information, including indications for use, contraindications, precautions and warnings, please consult the product's applicable Instructions for Use (IFU) prior to use.

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