

### Holistic care - the cornerstone of pressure injury prevention

Using an appropriate support surface is essential, and an important aspect of preventing pressure injuries (PI). However, pressure injury prevention requires addressing and assessing multiple factors, including skin integrity, tissue perfusion, mobility, nutrition, and overall health.<sup>(0)</sup> In addition, patients have unique needs based on their medical conditions and personal circumstances.

When selecting a support surface, it is important to adopt a holistic approach to ensures that all these aspects are considered all together, providing a more comprehensive care plan and allowing caregivers to tailor the support surface and other interventions to the specific needs of each patient.<sup>(M2)</sup>



## Surface selection and use

As stated by the international guidelines<sup>(2)</sup>, selecting a support surface that minimizes pressure, shear, and friction is one of the key elements in pressure injury prevention<sup>(2)</sup>. To ensure that the support surface is adapted to the patients' individual needs, three types of assessments should be considered.

Risk assessment
Skin assessment
Assessment of mobility level
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When selecting the right mattress, start by doing a risk assessment and look at the chart for guidance

Risk level	Products
Severe Risk	CuroCell <sup>®</sup> IQ   CuroCell <sup>®</sup> A4   CuroCell iA <sup>®</sup>
High Risk	CuroCell® IQ   CuroCell® A4   CuroCell iA®   CuroCell® IQ Cirrus   CuroCell® S.A.M. PRO
Moderate Risk	CuroCell® S.A.M. PRO   CuroCell AREA Zone   Optimal 5zon®   Optimal Care   Optimal Cura
Mild Risk	CuroCell® AREA Zone   Optimal 5zon®   Optimal Care   Optimal Cura
No Risk	No need for preventative support surface

To assure a holistic approach, the level of mobility and skin status must be considered.

## aSSKINg skin care bundle framework

Research has identified seven key steps to consider in preventing pressure injuries, defined as the aSSKINg skin care bundle framework.<sup>(4)(6)(6)</sup> This method has been established for many years and is widely used in clinical practice.

Developed by NHS and based on a thorough review of the best evidence and practices for pressure injury prevention and management, the aSSKINg care bundle outlines seven key steps. By integrating these steps into a holistic care plan, caregivers can significantly reduce the risk of pressure injuries and enhance patient outcomes.

**aSSESS RISK** 

- SKIN ASSESSMENT AND SKIN CARE
- SURFACE SELECTION AND USE
- **KEEP PATIENTS MOVING**
- INCONTINENCE ASSESSMENT AND CARE



gIVING INFORMATION (SELF CARE)





## The mobile individual

### **Patient Profile**

Typically an individual who is active and mostly independent. The individual can get in and out of bed on their own or with minimal assistance and is capable of repositioning themselves in bed without help. A walker may be used for support when walking short distances.

### **Risk Level**

Mild to moderate risk of Pl's, preventive measures recommended during periods of rest or reduced activity.

### **Skin Status**

PI's up to and including stage II.

### **Recommended Mattress**

A pressure-redistributing foam mattress. Recommended options are: Optimal 5zon®, Optimal Care or Optimal Cura.

## The limited-mobility individual



### **Patient Profile**

The individual has limited mobility and requires assistance for bed entry/exit, and occasionally for repositioning. The individual may use a wheelchair, such as a cross-frame model, and has some mobility but with significant limitations.

### **Risk Level**

Mild to high risk of developing Pl's.

### Skin Status

PI's up to and including stage III.

### **Recommended Mattress**

For individuals with mild to moderate risk, redness/colour difference of skin and/or PI's up to stage II, a foam mattress like Optimal 5zon® may suffice.

For those with moderate risk or existing Pl's up to stage III, a hybrid pressure redistribution mattress like AREA Zone may be suitable.

For individuals with moderate to high risk, and/or existing Pl's, a constant low-pressure mattress like S.A.M. PRO may be appropriate.

# patient persona



## The restricted mobile individual

### **Patient Profile**

Individual with severely limitied mobility that spends most of the time in bed, requiring assistance with repositioning, transferring in and out of bed, and walking. May include critically ill or palliative care patients.

### **Risk Level**

High to severe risk of PI's, often affecting multiple areas.

### Skin Status

Presence of PI's up to stage IV or deep tissue injuries.

### **Recommended Mattress**

When high risk, PI's up to stage III, still able to do minor repositioning,

a constant low-pressure mattress like AREA Zone or S.A.M PRO may be

appropriate. For sensitive individuals requiring highest degree of comfort,

CuroCell<sup>®</sup> IQ Cirrus may be preferred.

For high to severe risk with severely limited mobility or Pl's up to stage IV, pressure relief is essential. Options include CuroCell iA®, CuroCell® A4, CuroCell® IQ.

..... The immobile individual

### Patient Profile

Fully immobile, such as post-surgical or ICU patients, requiring complete assistance for repositioning.

### **Risk Level**

High to severe risk of developing PI's due to immobility.

### Skin Status

Presence of PI's up to stage IV or deep tissue injuries and/or deep tissue injuries.

### **Recommended Mattress**

Continuous pressure relief and tissue perfusion is essential, as these patients are unable to reposition themselves. Recommended options include CuroCell iA<sup>®</sup>, CuroCell<sup>®</sup> A4, CuroCell<sup>®</sup> IQ.

Remember to assess as the individual's condition improves and choose a mattress that supports mobility.





Scan here for an extended version of the mattress guide



## Mobility promotes independence

Remember to assess the individual as their condition improves. Foam supports mobility by providing stability during bed entry and exit, as well as aiding independent repositioning.

- This mattress guide is intended as a general tool for educational purposes only. While based on recognized models like aSSKINg and other sources, it does not replace clinical judgment or personalized medical advice. Always consult a healthcare professional for individual recommendations and decisions.
- <sup>(1)</sup> Coleman S., Nixon J., Keen J., Wilson L., McGinnis E., Dealey C., Stubbs N., Farrin A., Dowding D., Scols J.M.G.A., Cuddigan J., Berlowitz D., Jude E., Vowden P., Schoonhoven L., Bader D.L., Gefen A., Oomens C.W.J. & Nelson E.A. (2014) A new pressure ulcer conceptual framework. Journal of Advanced Nursing, 2014
- <sup>(2)</sup> European Pressure Ulcer Advisory Panel, National Pressure Injury Advisory Panel and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. The international Guideline. Emily Haesler (Ed.). EPUA/PNHA/PPPIA: 2019
- <sup>(3)</sup> Portoghese C et al. 2024. The Role of Shear Stress and Shear Strain in Pressure Injury Development.
- <sup>(4)</sup> Lorraine Wright, Heather Macgowan, Pressure ulcer risk assessment & prevention guideline, NHS Forth Valley, Tissue Vialbility Team, 01.05.2020
- <sup>(5)</sup> Whitlock J. SSKIN bundle: preventing pressure damage across the health-care community. British Journal of Community Nursing. 2014; 18:suppl 9: s32-39.
- <sup>(6)</sup> McCoulough S. Adapting a SSKIN bundle for carers to aid identification of pressure damage and ulcer risks in the community. British Journal of Community Nursing. 2016 June; Suppl: S19 – S25.