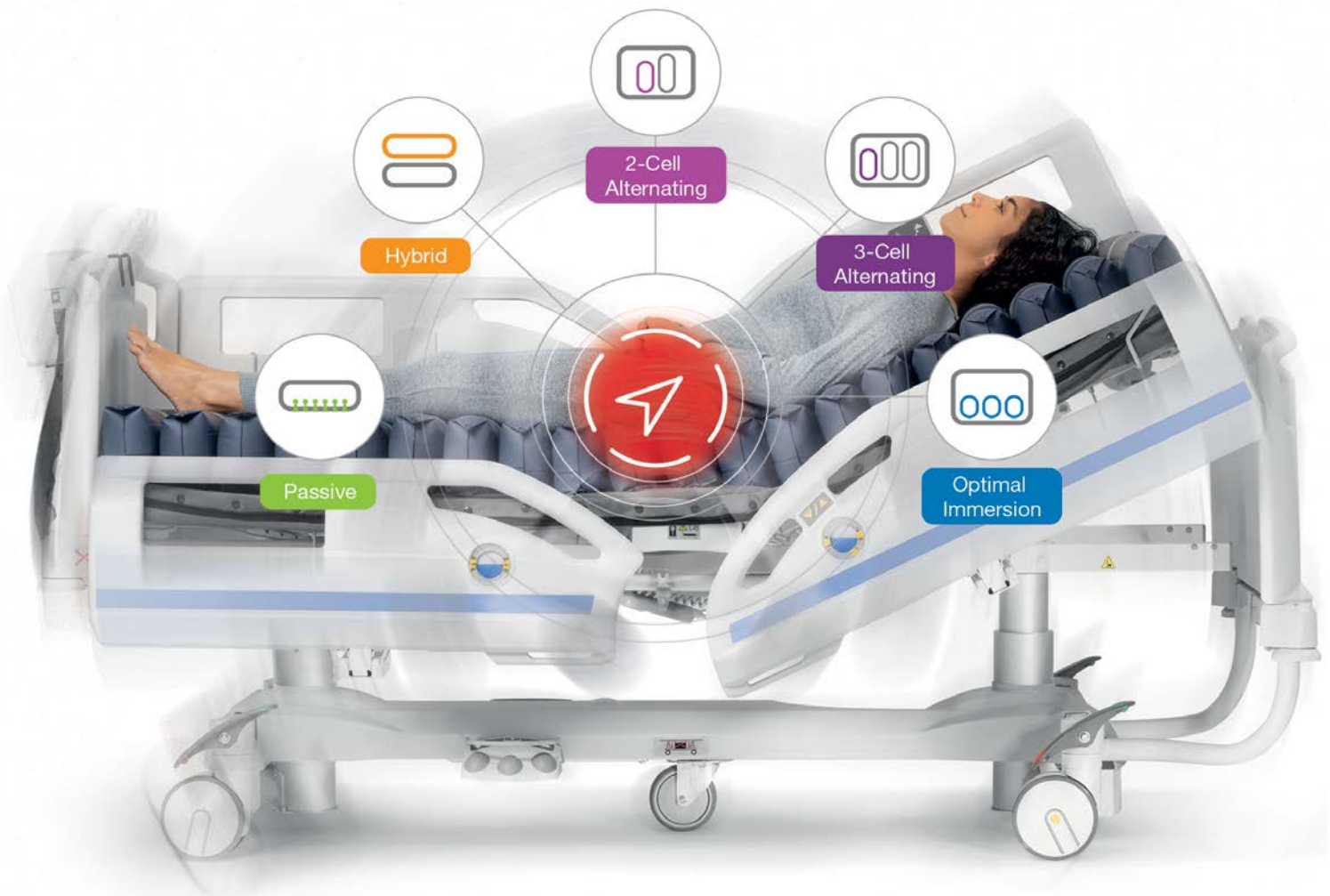


# SUPPORT SURFACES

Pressure Care Navigator

**LINET**



Technologies for Pressure Injury Prevention Support

# Pressure Injuries

The use of support surfaces is included in nearly all evidence-based clinical practice guidelines as a component of comprehensive pressure injury prevention programs and treatment recommendations.



**2.5 million**

patients per year develop  
a pressure injury(1)





60,000

patients die every year as a direct  
result of pressure injuries(2)



2.5× more

expensive to treat pressure injuries  
than to prevent them(3)

# CHOOSE THE RIGHT SURFACE

|            |           | Mobile  |                  |                  |                  |  | Partly Mobile |                  |
|------------|-----------|---------|------------------|------------------|------------------|--|---------------|------------------|
| Risk level | Very high |         |                  |                  |                  |  |               |                  |
|            | High      |         |                  |                  |                  |  |               |                  |
|            | Medium    |         |                  |                  |                  |  |               |                  |
|            | Low       | Passive | CliniCare 100 HF | Air2Care Overlay | Virtuoso Overlay |  | Passive       | CliniCare 100 HF |
|            |           | Passive | Hybrid           | Active           |                  |  | Passive       | Hybrid           |
| Patient    |           |         |                  |                  |                  |  |               |                  |

This general classification is the producer's recommendation of mattress usage based on patient's condition. Please, for more precise and detailed information see the subsegment classification table (page 22 for Air2Care).



# Overview of Surfaces

## Passive Foam Support Surfaces



Passive

Various foam types and designs to improve pressure redistribution through and envelopment.

- Designed to improve pressure distribution according to the patient's position and movement.



*Foam of passive mattresses is a flexible material formed with pockets of air.*

## Hybrid Systems



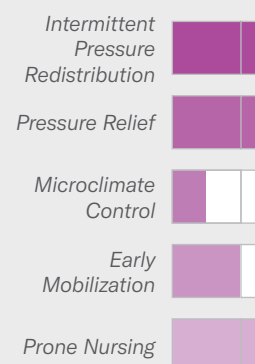
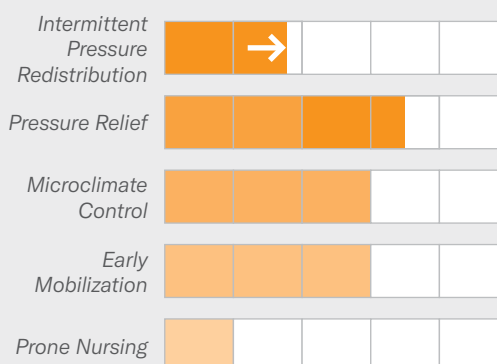
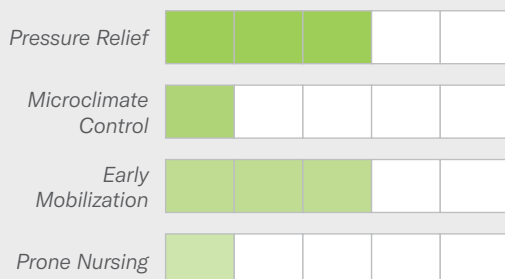
Hybrid

Foam/air hybrids function as a passive mattress when there is no active power source but can be converted into an active power source.



Passive part  
of the system

Active part  
of the system



## 2-Cell AI



2-Cell

Alternatives  
are design  
any part of  
being sub

pressure by alternating  
body that are loaded a

- Cell deflation of 2-50 % of the body's one time



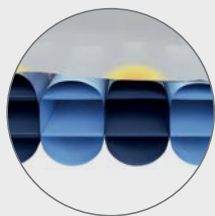
*In a 2-cell system,  
every alternate cell  
inflates while the  
intermediate cells  
deflate.*

## Active Systems

### Alternating

Alternating Pressure Systems are designed to prevent any part of the body from being subjected to sustained pressure by alternating the parts of the body that are loaded at any one time.

3-cell systems covers 66 % of the body's surface area at any one time.



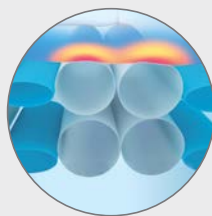
### 3-Cell Alternating



3-Cell

Alternating Pressure Systems are designed to prevent any part of the body from being subjected to sustained pressure by alternating the parts of the body that are loaded at any one time.

- The 3-cell system allows for 66 % of the body's surface to always be supported and 33 % to be completely offloaded



In a 3-cell system, one in three cells deflates at any given time.

### Optimal Immersion

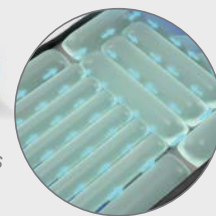


Optimal Immersion

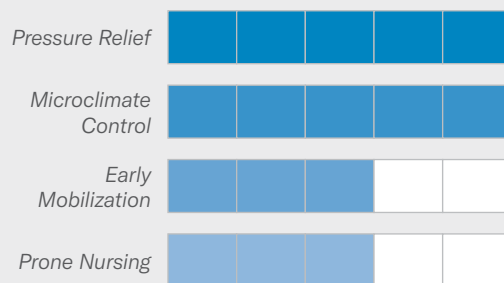
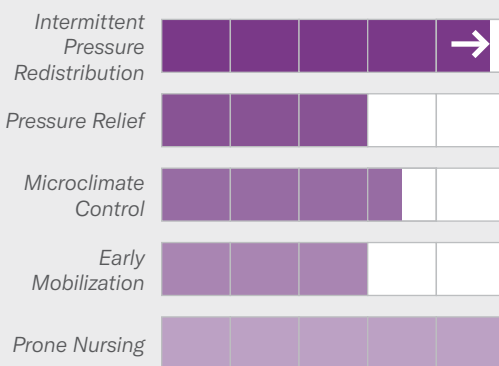
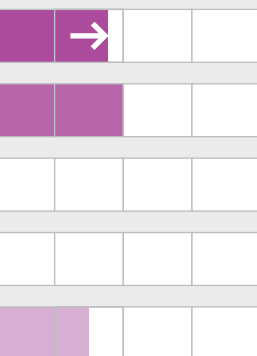
Constant low pressure mattresses are active mattresses that provide pressure redistribution. This is achieved by reducing the air pressure in the cells to a level that both supports the patient and immerses them into the mattress to increase the contact surface area.

Pressure redistribution is the consequence of two mechanisms:

- Immersion – the ability to sink into a support surface
- Envelopment – The ability of a support surface to wrap around the shape of the body<sup>(4)</sup>



Optimal Immersion provides the optimal pressure redistribution without a risk of bottoming out.





# Active and Hybrid Mattresses

## Optimal Immersion



### Opticare

Advanced Optimal Immersion



- Integrated System
- Optimal Immersion
- Microclimate Management

### Opticare X

Premium Optimal Immersion



- Integrated System
- Optimal Immersion
- Prone Nursing Mode
- Microclimate Management

## 3-Cell Alternating Systems



### Virtuoso Overlay

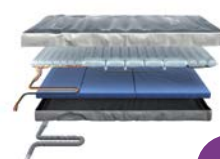
Value 3-Cell Alternating



- Zero Pressure
- APT, CLP and MCM in one

### Virtuoso 50

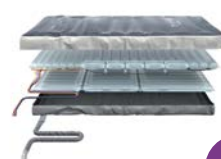
Value 3-Cell Alternating



- Zero Pressure
- APT, CLP and MCM in one

### Virtuoso 100

Advanced 3-Cell Alternating



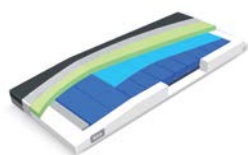
- Zero Pressure
- APT, CLP and MCM in one

## Hybrid Systems



### Clinicare 100 HF

Advanced Pressure Redistribution



- Active and Passive System in One
- Microclimate Management

## 2-Cell Alternating Systems

### Air2Care 5 Overlay

Value 2-Cell Alternating



- Periodic Pressure Relief

### Air2Care 6

Advanced 2-Cell Alternating



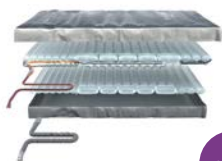
- Periodic Pressure Relief
- Availability of Prone Nursing





### Virtuoso 200

Advanced 3-Cell Alternating



- Zero Pressure
- APT, CLP and MCM in one

### Virtuoso 300

Premium 3-Cell Alternating



- Zero Pressure
- Prone Nursing and Heel Offloading
- Head & Heel
- APT, CLP and MCM in one

### Virtuoso PRO

Premium 3-Cell Alternating



- Zero Pressure
- Prone Nursing
- Wound Offloading
- APT, CLP and MCM in one

### Air2Care 8

Premium 2-Cell Alternating



- Periodic Pressure Relief
- Availability of Prone Nursing
- SWL up to 250 kg

### Air2Care 10

Advanced 2-Cell Alternating



- Periodic Pressure Relief
- APT, CLP, MAX

### Air2Care 20

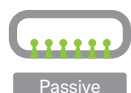
Premium 2-Cell Alternating



- Periodic Pressure Relief
- APT&CLP in One

# Passive Mattresses

## Premium



### ViskoMatt 10

2 layer foam  
(viscoelastic and polyether)



150 kg

- Edge Zone Reinforcement
- Welded seams

### ViskoMatt 30

2 layer foam  
(viscoelastic and cold)



165 kg

- Edge Zone Reinforcement
- Welded seams

### ViskoMatt 50

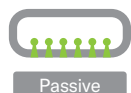
2 layer foam  
(viscoelastic and cold)



190 kg

- Edge Zone Reinforcement
- Welded seams

## Advanced



### MediMatt 30

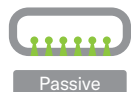
2 layer foam  
(cold and polyether)



150 kg

- Edge Zone Reinforcement
- Sewn seams

## Value



### EffectaCare 10

Monoblock foam



110 kg

- Convoluted profiled surface
- Sewn seams

### EffectaCare 20

Monoblock foam



150 kg

- Partial profiled surface
- Sewn seams

### PrimaCare 10

Monoblock foam



200 kg

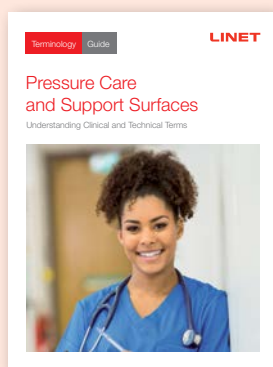
- Full profiled surface
- Sewn seams

# Understanding Clinical and Technical Terms

LINET guides and international resources are intended to help readers understand support surfaces and technologies so clinical staff and organizations can select product solutions that best suit their patients and their facility.

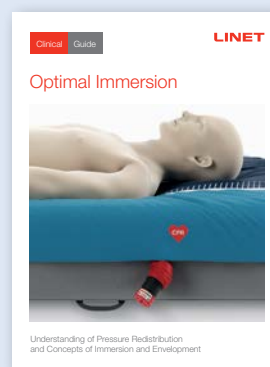
## Pressure Care and Support Surfaces

- Clinical Terminology
- Support Surface Related Terminology



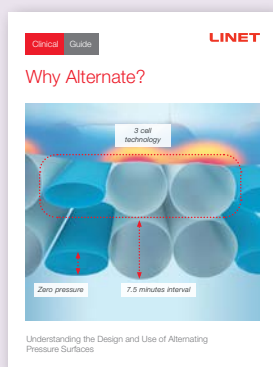
## Optimal Immersion

- Pressure Redistribution Principles
- Important Concepts of Immersion, Envelopment, Critical Immersion and Optimal Immersion



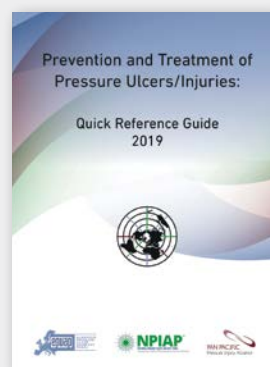
## Why Alternate?

- Performance of Alternating Pressure Mattresses
- Different Design Options eg. 2-Cell and 3-Cell Systems



## Resources

- Learn more about strategies based on recent updates and guidelines  
[www.epuap.com](http://www.epuap.com)



# References

(1–3) Pressure Injury Fact Sheet, NPIAP, [www.npiap.com](http://www.npiap.com)

(4) 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.). EPUAP/NPIAP/ PPPIA; 2019.



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