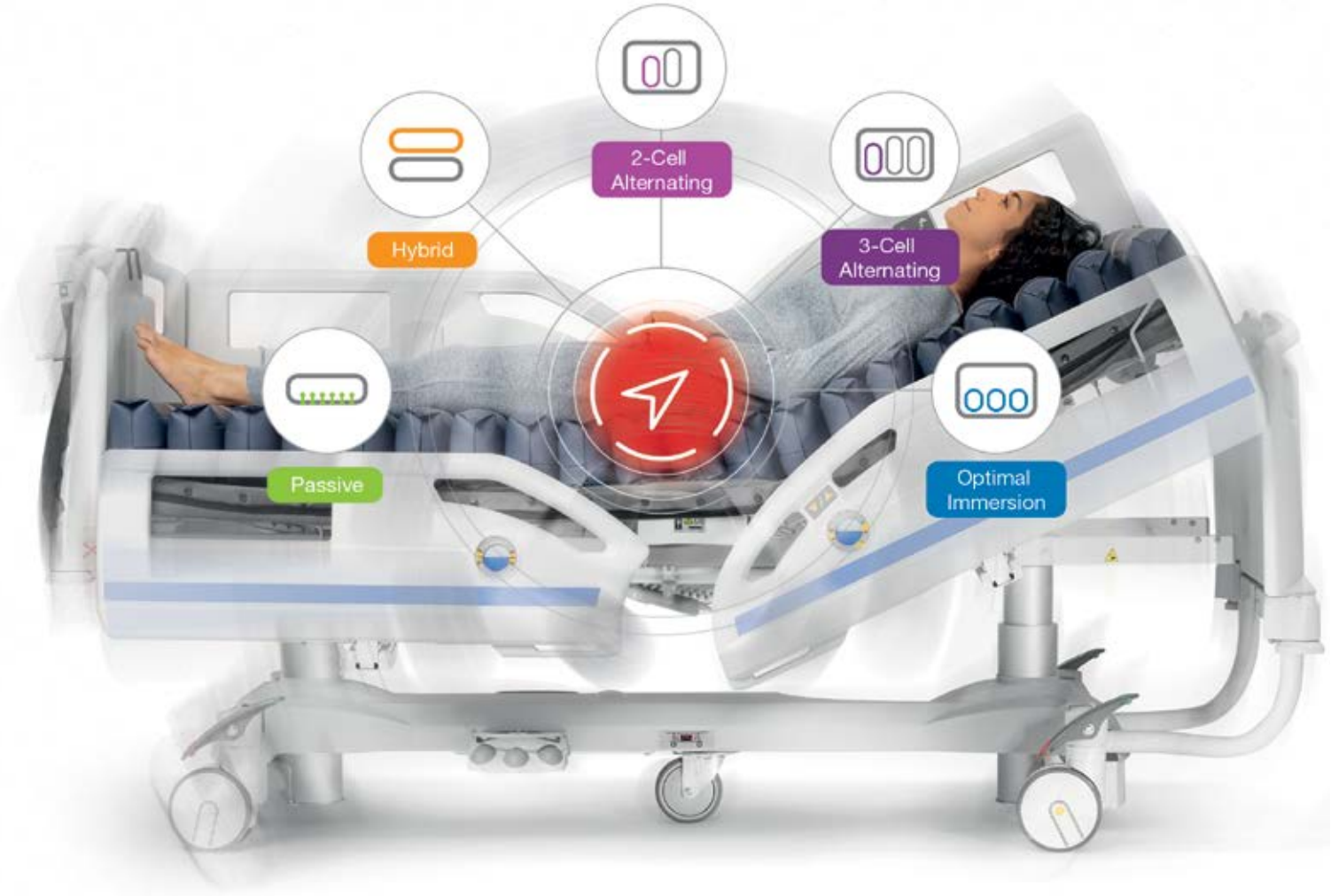
SUPPORT SURFACES

LINET

Pressure Care Navigator



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

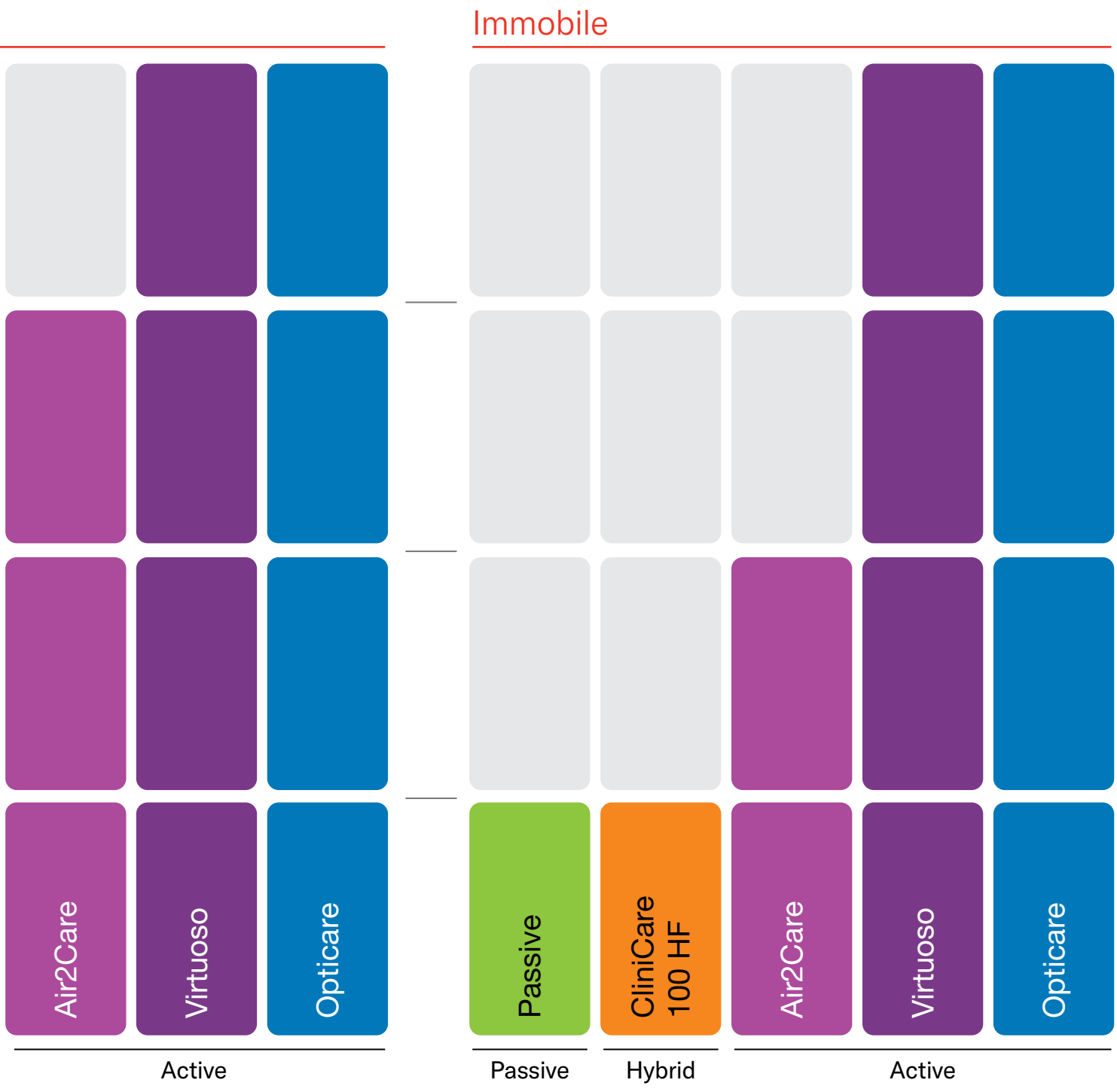
patients die every year as a direct result of pressure injuries(2)

2.5× more

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

CHOOSE THE RIGHT SURFACE

This general classification is the producer's recommendation of mattress usage based on patient's condition.


Immobile
Air2Care
Virtuoso
Opticare
Passive
CliniCare 100 HF
Air2Care
Virtuoso
Opticare
Active
Passive
Hybrid
Active
mobility rate

Overview of Surfaces

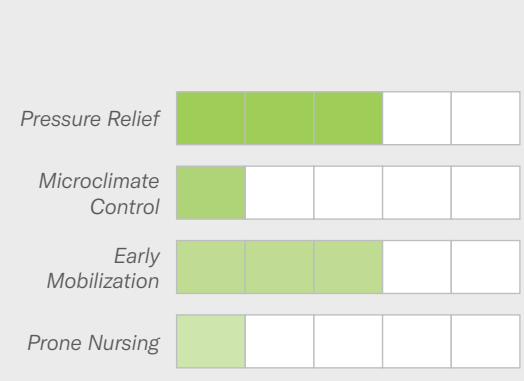
Passive Foam Support Surfaces

Passive

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



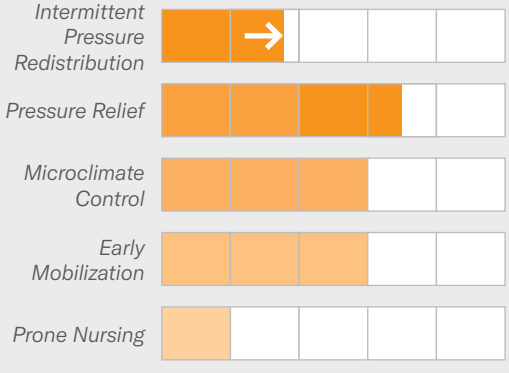
Hybrid Systems

Hybrid

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

Passive part of the system

Active part of the system



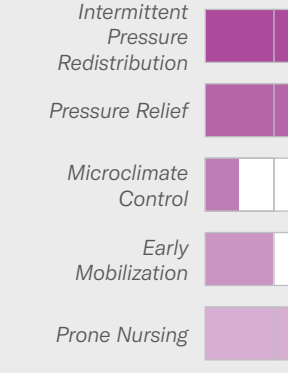
2-Cell Al

2-Cell

Alternate
are design
any part
being sub
pressure by alternatin
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.

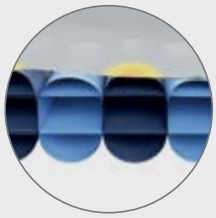


Active Systems

ternating

ring Pressure Systems
ned to prevent
of the body from
jected to sustained
g the parts of the
at any one time.

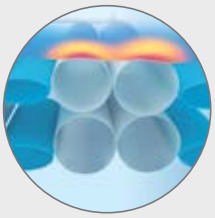
cell systems covers
surface area at any



3-Cell Alternating

Alternatering 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.

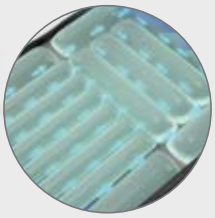
Optimal Immersion

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.

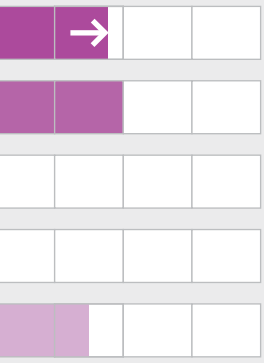
Pressure redistribution is the consequence of two mechanisms:

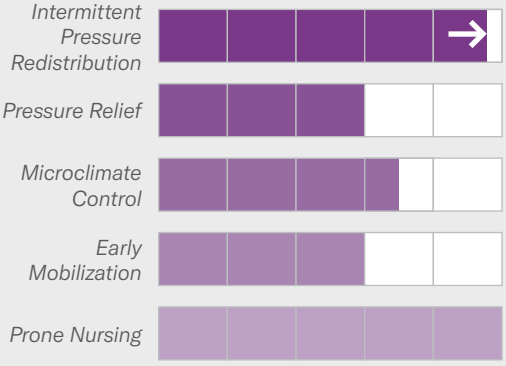
— Immersion – the ability to sink into a support surface

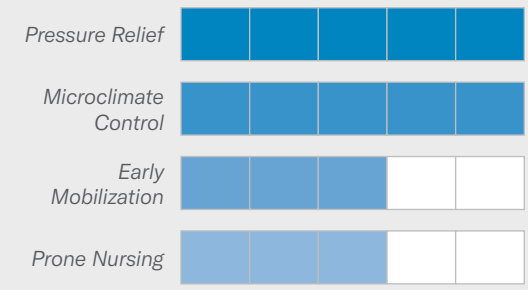
— Envelopment – The ability of a support surface to wrap around the shape of the body[4]



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







Active and Hybrid Mattresses

Optimal Immersion

Optimal Immerssion

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

3-Cell

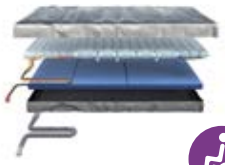
Virtuoso Overlay

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

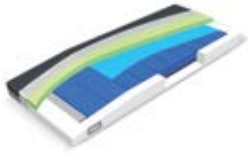
Hybrid Systems

2-Cell

Hybrid

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

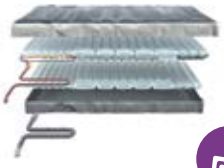
Advanced 2-Cell Alternating

– Periodic Pressure Relief
– Availability of Prone Nursing

Cushion for 24-hour care available

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

Passive

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

Passive

MediMatt 30

2 layer foam
(cold and polyether)

150 kg

– Edge Zone Reinforcement
– Sewn seams

Value

Passive

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

Bariatric version

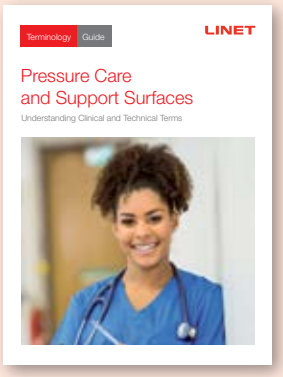
Understanding Clinical and Technical Terms

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

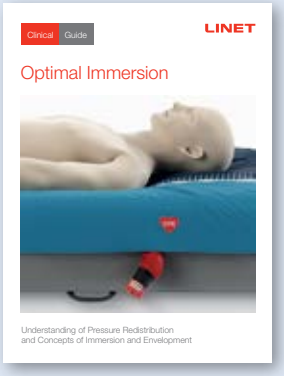
—Support Surface Related Terminology



Optimal Immersion

—Pressure Redistribution Principles

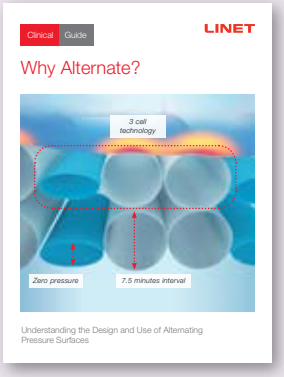
—Important Concepts of Immersion, Envelopment, Critical Immersion and Optimal Immersion



Why Alternate?

—Performance of Alternating Pressure Mattresses

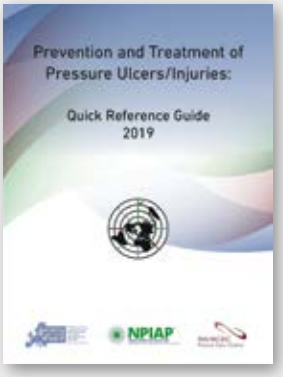
—Different Design Options eg. 2-Cell and 3-Cell Sytems



Resources

—Learn more about strategies based on recent updates and guidelines

www.epuap.com



References

(1–3) Pressure Injury Fact Sheet, NPIAP, 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.

wissner-bosserhoff

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