

# ESSENZA

Turn To The Essence Of Care

# LINET



The Acuity Adaptable Hospital Bed

# GLOBAL NURSES' SHORTAGE

Holding patients' hand through difficult times and caring with passion and devotion is the essence of nurses' care.

With enough nursing time for patients, patient falls could be avoided, hospital-acquired pressure injuries could be prevented, and the chance for recovery would be higher. However, there is a major shortage of nurses as the population is aging, and the fall-out due to work-related musculoskeletal disorders (MSD's) is continuously present.

The job of a nurse is draining both physically and mentally and the time they have is increasingly taken by additional administrative tasks. Recent global events have only made the situation worse.

This leads to a never-ending cycle of understaffing and, consequently, to an even more fragile healthcare system.

We need to break this vicious downward spiral. We need to give nurses their time, safety and passion back, so that they can

## Turn To The Essence Of Care

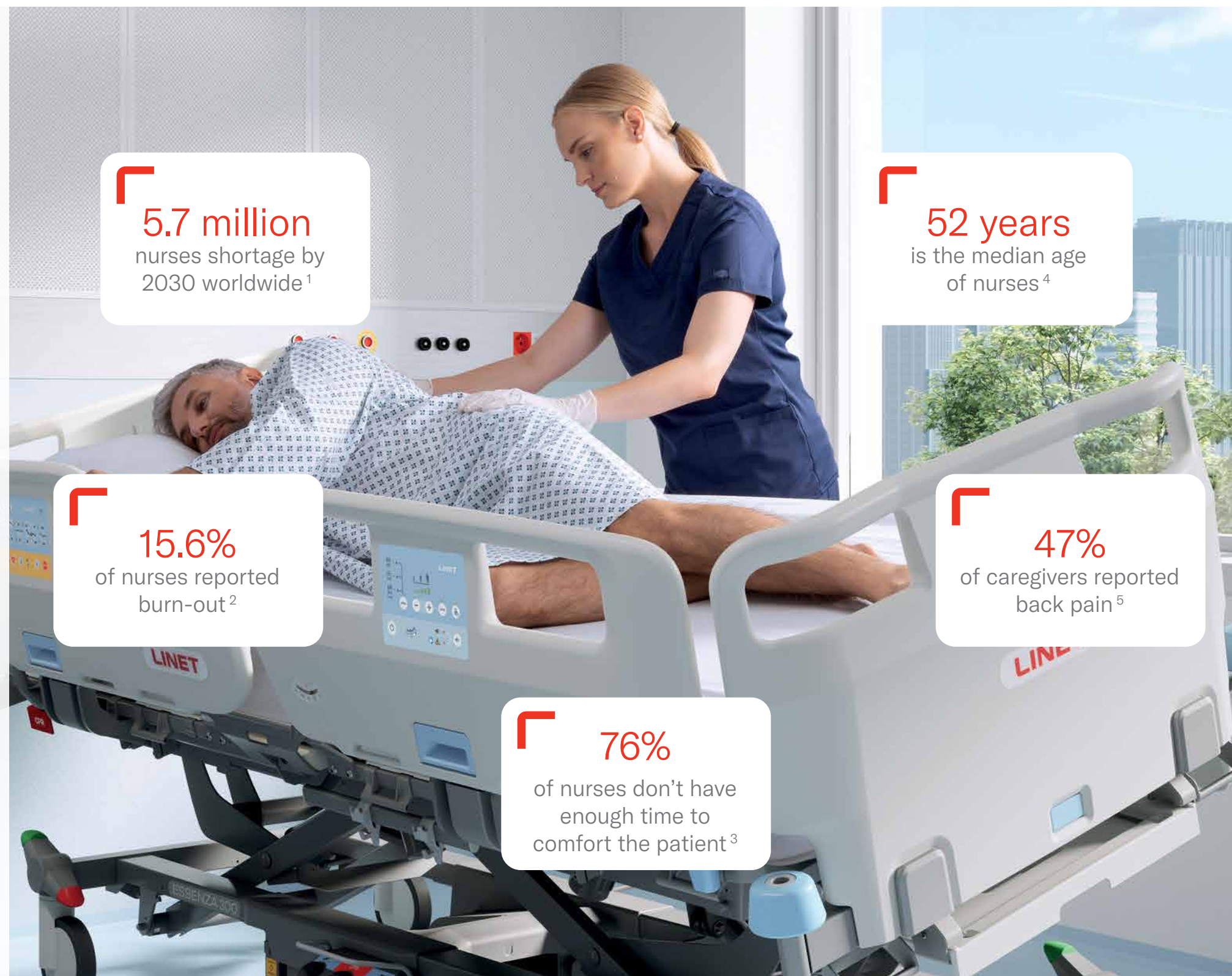
**5.7 million**  
nurses shortage by  
2030 worldwide<sup>1</sup>

**15.6%**  
of nurses reported  
burn-out<sup>2</sup>

**52 years**  
is the median age  
of nurses<sup>4</sup>

**47%**  
of caregivers reported  
back pain<sup>5</sup>

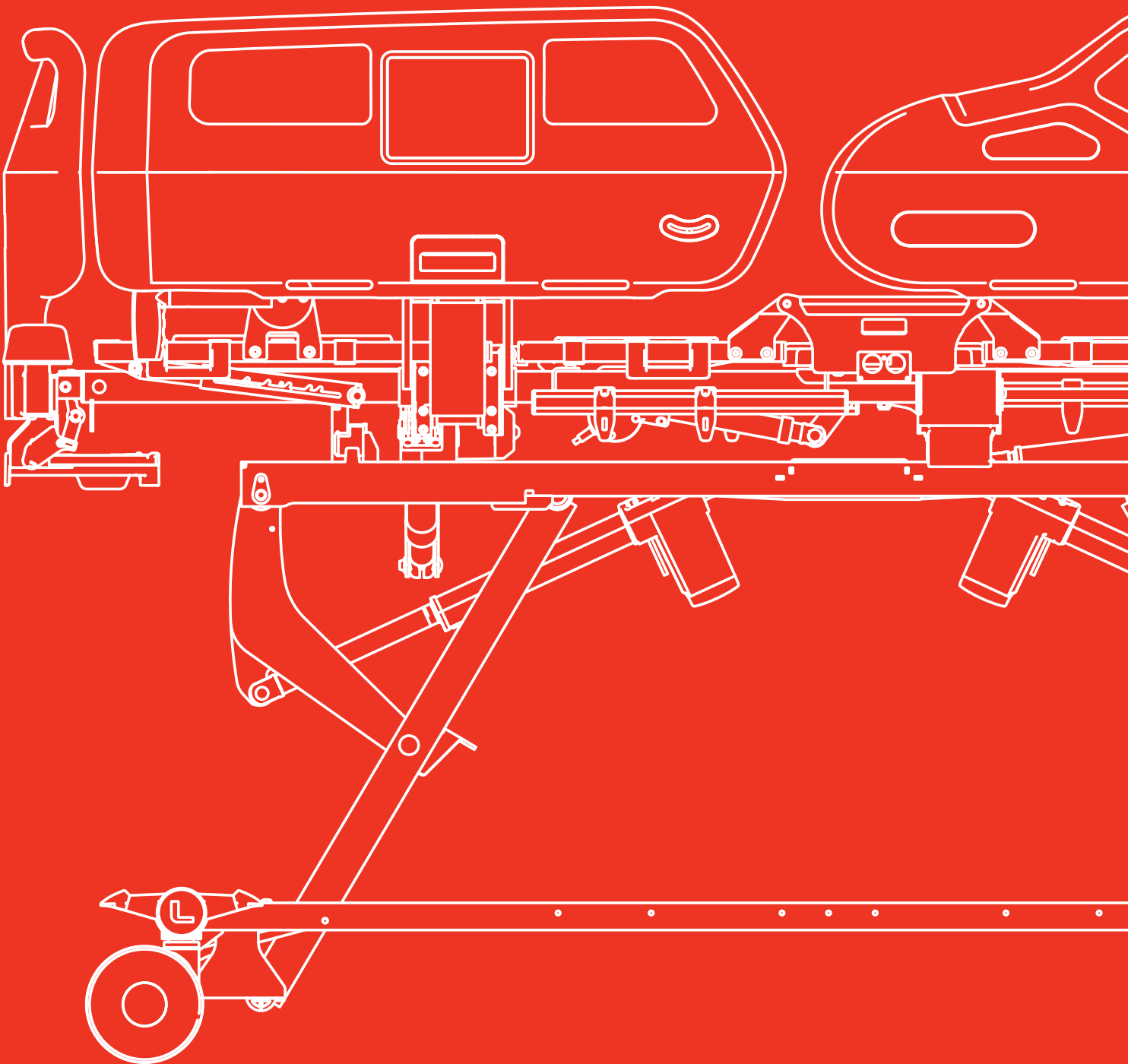
**76%**  
of nurses don't have  
enough time to  
comfort the patient<sup>3</sup>





# ESSENZA 300

TURN TO THE ESSENCE OF CARE



## SUPERIOR SAFETY & ERGONOMICS DRIVEN BY NURSE- AND PATIENT-CENTRIC DESIGN



**Lateral tilt** turns into a new gold standard in acute care reducing physical strains on the caregiver by 67%.<sup>6</sup>



**Low height** helps to reduce the severity of patients' falls.<sup>7</sup>



**EasyDrive®** enables effortless patient transportation done by one caregiver without need of any initial push force for acceleration.<sup>8</sup>



**The safe mobilization concept** supports the patient through specially designed features & can help to speed up the recovering process.<sup>14</sup>

## EFFICIENCY OF A SINGLE PLATFORM UNLOCKING INCREDIBLE VERSATILITY



**Single platform efficiency** brought by one intuitive user interface. This means only one training for nurses and easier rotation across hospital wards.



**Incredible versatility** that meets all the needs of each individual department. Bespoke design is an additional bonus.

## UNPARALLELED EFFECTIVENESS BROUGHT BY ADVANCED TECHNOLOGIES



**SafeSense 3** helps to save time by providing a real-time overview of the patients' position in the bed or by smart alerting when the patient is at risk of pressure injuries or falls.



**SmartTracking** facilitates the work of caregivers by tracking hospital assets or patients at room level accuracy.



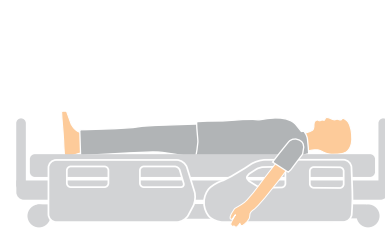
**Integrated Air2Care and HybriMatt** mattresses provide easy and time-saving maintenance for caregivers.

# ESSENZA 300

Universal low height bed with an exceptional safe working load of 300 kg improves safety for any patient.



Fall prevention during sleeping phases  
25.5 cm



Safe mobilization at chair height  
40 cm



Optimal nursing position  
78 cm



# ESSENZA 300 LT

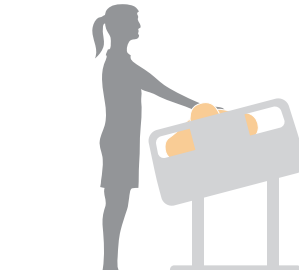
Lateral tilt turns into a new gold standard in acute care, delivering premium ergonomics & effective mobilization.



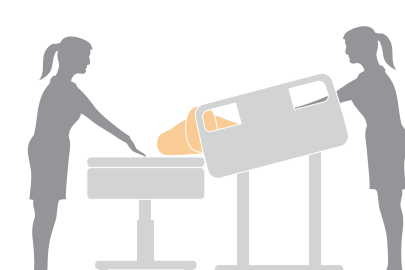
Mobilizing Patient Early



Safe Patient Handling



Easier Patient Transfer







# SOLUTIONS OVERVIEW

## ENHANCED PATIENT OUTCOME



### EARLY MOBILIZATION

Mobi-Lift®, Mobi-Pad & Mobi-Grips promote patient mobilization which can potentially decrease the length of hospital stay and all the associated complications.<sup>14</sup>



### PRESSURE INJURY PREVENTION

The integrated Air2Care and HybriMatt mattresses offer effective pressure relief and easy maintenance for caregivers.



### FALLS PREVENTION

Brake alarm, low height & monitoring of patient by SafeSense 3 help to prevent patients' falls.



### IMPROVE PATIENT EXPERIENCE

Bed features increasing patients' comfort during hospital stay lead to better satisfaction and health outcomes.

## IMPROVED CAREGIVER & HOSPITAL WORKFLOW



### SAFE PATIENT MOVING & HANDLING

Lateral tilt is turning into a new gold standard in acute care that delivers premium ergonomics for caregivers & effective patient mobilization.



### EASY PATIENT TRANSPORTATION

Features like EasyDrive® and 5th castor make bed manipulation easier and support caregivers during patient transportation.



### SIMPLIFY CAREGIVER PROCEDURES

SafeSense 3, SmartTracking and integrated mattresses facilitate caregivers' daily tasks and help them to be more efficient.



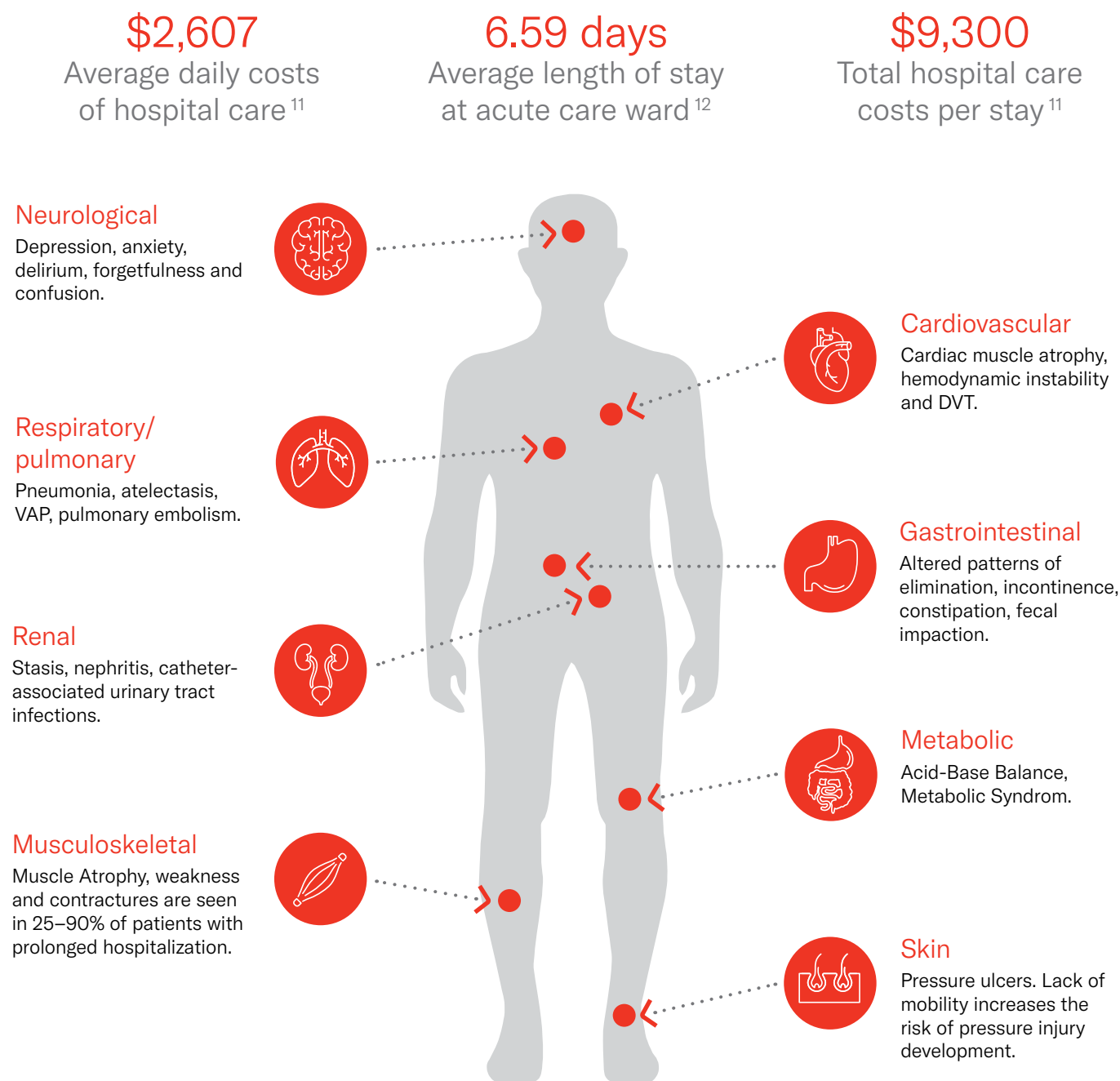
### HOSPITAL OPERATIONS EFFICIENCY

Single bed platform across all hospital wards leads to cost reduction and time-saving.

# EARLY MOBILIZATION

## CHALLENGE

- Complications associated with long hospital stay<sup>9</sup>
- Longer length of hospital stay due to immobility<sup>10</sup>
- Increased costs for the hospital<sup>9</sup>



Learn more about  
Early Mobilization  
with LINET



Read the full report  
Effect of Mobi-Lift on  
Patients' Mobilization



## SOLUTION

Mobi-Lift®, Mobi-Pad & Mobi-Grips promote early mobilization programs which can impact the length and the costs of hospital stays. Mobilization programs can reduce the incidence of pressure injuries by up to 86%.<sup>15</sup>

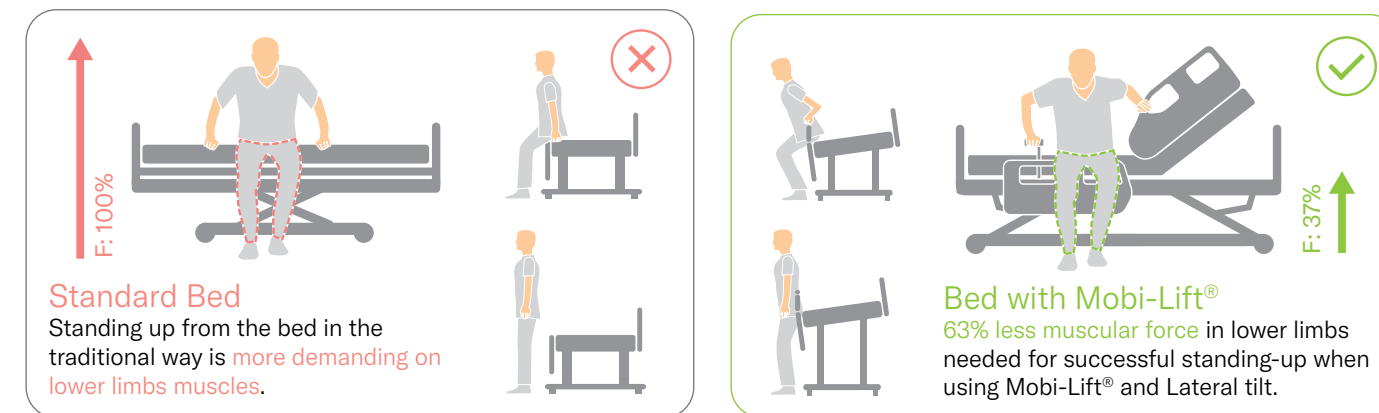
Length of hospital stay  
decreased by  
**1.5 days**<sup>13,14</sup>

In Hospital Falls  
reduced by  
**37%**<sup>14</sup>

Hospital associated  
infections reduced by  
**60%**<sup>14</sup>

	Level of Function 0	Level of Function 1	Level of Function 2	Level of Function 3	Level of Function 4
Level of function					
Criteria	Bed immobile – Clinically stable, but not able to cooperate in care	Bed Active – Able to cooperate in self-care and bedbound	Able to sit – Strong enough to sit upright and able to move leg against gravity	Able to stand – Increased strength for standing activities and actively participates in transfers to chair	Able to Walk – Tolerates walking in the room and independently transfers to chair
Solutions	– Lateral tilt – Head of Backrest – Reverse Trendelenburg – Vascular leg position	– Lateral tilt – Head of Backrest – Reverse Trendelenburg – Vascular leg position – Mobi-Grips – Cardiac chair*	– Mobi-Pad* – Mobi-Grips* – Cardiac chair*	– Mobi-Lift® handle* – Mobi-Grips* – Mobi-Pad* – Lateral tilt*	– Mobi-Lift® handle* – Mobi-Grips* – Mobi-Pad* – Lateral tilt*

Less demanding standing procedure<sup>15</sup>



\* This tool intends to support the improvement of outcomes for patients and Health Care Professionals. Please be advised that the purpose is to offer guidance and does not replace the need for clinical assessment/judgement.





# PRESSURE INJURY PREVENTION

## CHALLENGE

- Worldwide prevalence of HAPI varies from 6–18.5% in acute care segment<sup>16</sup>
- Pressure injuries can develop within minutes of immobility<sup>17</sup>

The cost of treating pressure injuries varies

from £1,214 to  
£14,108<sup>18</sup>



Learn about how integrated mattresses support pressure injury prevention



Learn more about our passive mattresses range



## SOLUTION

For the Essenza 300, we offer a variety of mattress solutions, ranging from **integrated active** and **hybrid** mattresses to **passive** mattress replacement options.



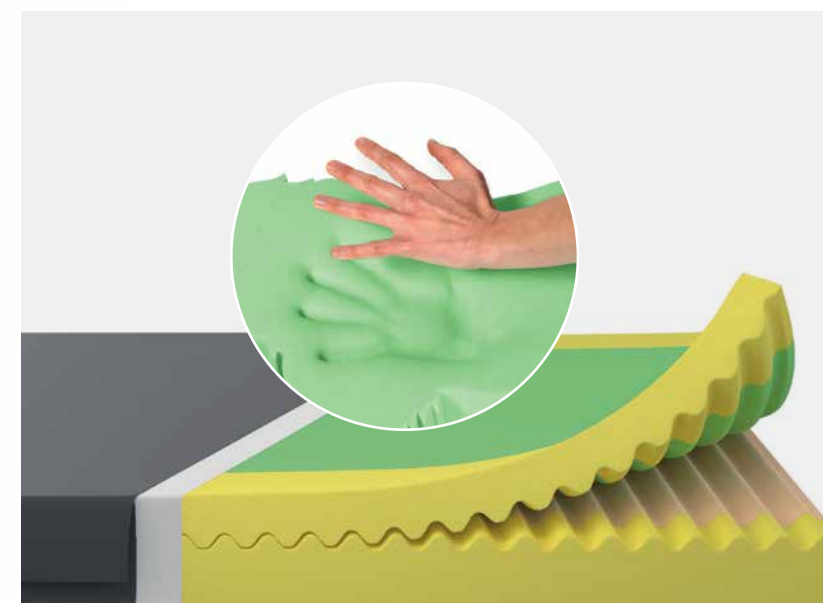
### Air2Care 6 IN, 8 IN

An integrated **alternating pressure air mattress** designed to reduce pressure peaks and support pressure injury prevention.



### HybriMatt 100 IN

An integrated **hybrid mattress** that combines alternating pressure therapy with a foam structure for continuous support.



## Passive Mattresses

### ViskoMatt, MediMatt

LINET's passive mattresses, ViskoMatt & MediMatt, provide pressure relief through immersion and envelopment for patient comfort.

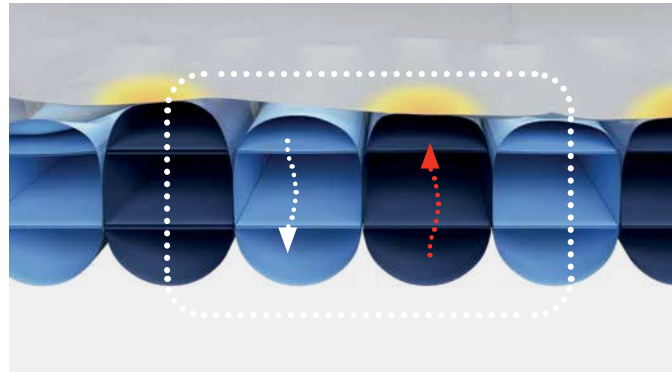
Advanced foam combinations – Viscoelastic ("memory foam"), cold, and polyurethane foams provide optimal support.

## AIR2CARE

The Air2Care mattress range supports effective relief with automatic pressure adjustment and additional features. Air2Care 6 IN and 8 IN are available for integration with the Essenza 300.

### 2-Cell Alternating System

Air2Care feature a **2-cell alternating system** that helps reduce pressure and minimize sustained pressure peaks on the patient's body.

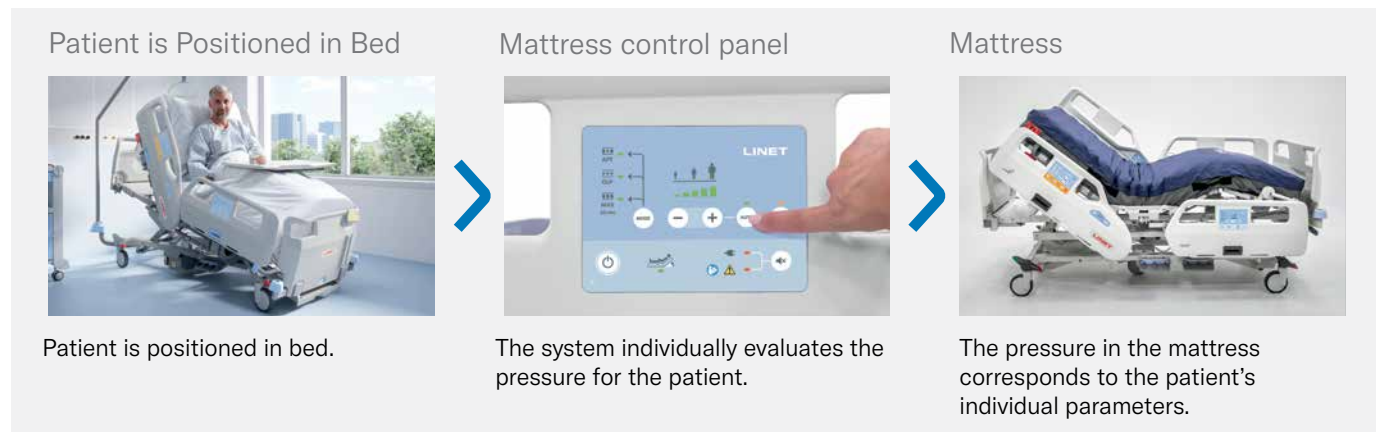


### Automatic Fowler Boost

The Air2Care mattress starts to increase air inflation when it detects the backrest has been raised by 30°. The Single Point Fowler Boost enables automatic detection of the raised backrest position.

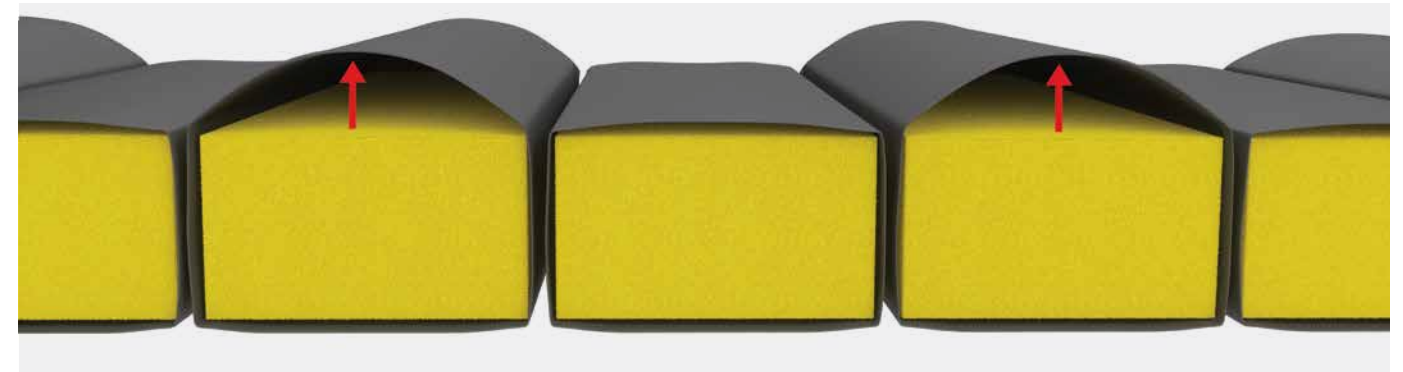
### Automatic Pressure Setting with the Easy Smart System

At the press of a button, the mattress will automatically and continuously adjust to the patient's individual size, weight and position. Manual pressure adjustment is available to suit patient comfort.



## HYBRIMATT

HybriMatt mattress offers effective approach to pressure injury prevention thanks to active and passive system in one. HybriMatt 100 IN is available for integration with the Essenza 300.



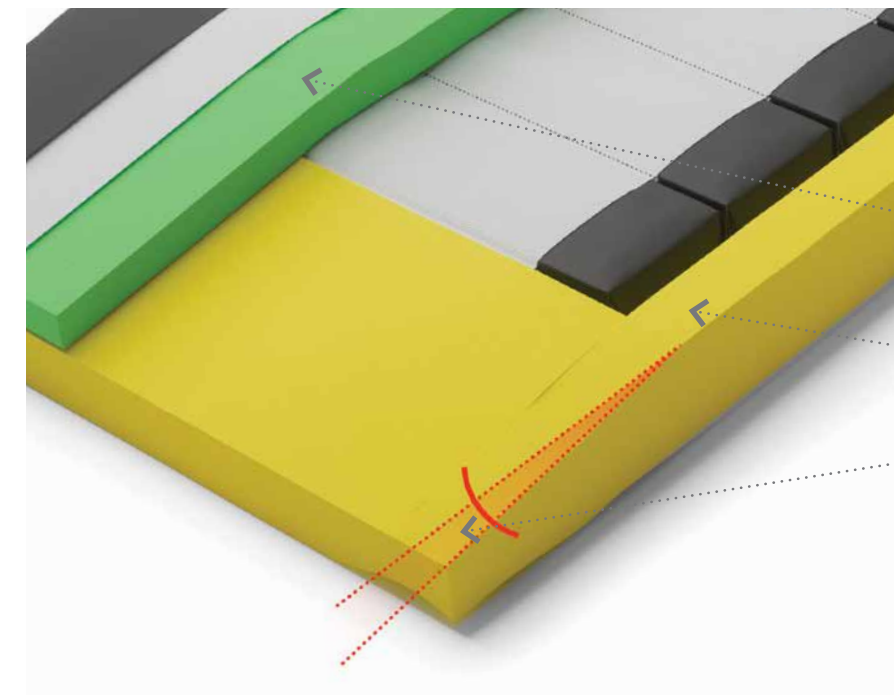
### Active system

#### 2-cell alternating system

Provides periodic pressure reduction, enhanced by a viscoelastic foam top layer for optimal redistribution.

#### Air cells with foam core

Supports the patient in passive mode; activates dynamic pressure relief when connected to a compressor.



### Passive system

Polyurethane base with a viscoelastic top layer for pressure redistribution and mobility support

#### Viscoelastic foam

Adapts to body heat and weight for optimal support.

#### Reinforced edges

Enhance stability for patient movement

#### Heel slope

7-degree incline reduces pressure in high-risk areas.





# FALLS PREVENTION

## CHALLENGE

- Falls are one of the most commonly reported patient safety incidents in the hospital setting<sup>19</sup>
- 84.8% of falls happen unwitnessed<sup>20</sup>
- 27% of falls happen when a patient tries to leave the bed<sup>21</sup>

11.5 days

Longer hospital stays due to IHF\*,<sup>22</sup>

£2,600

for patient fall<sup>23</sup>



Read the full report:  
The Power of Prevention



## SOLUTION

Brake alarm, low height & monitoring of patient by SafeSense 3 help to prevent patients' falls.

### Low height Indicator



With a low height of 25.5 cm, Essenza 300 is a premium solution for any patient who may be at higher risk of falls. Green light indicates the lowest position.

### Brake alarm

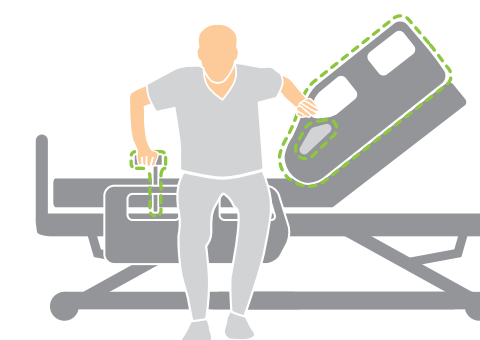


The bed automatically emits an audible signal when it is left unbraked while the main power cable is connected.

### Bed exit alarm by SafeSense 3



Staff is notified whenever patient leaves the bed. Continuous monitoring of the motion in combination with bed exit notifications can be helpful in prevention and quick reaction to any such event.



### Mobi-Controls

Mobi-Lift®, Mobi-Pad & Mobi-Grips empower patients and help with their faster mobilization which can prevent patients' falls when exiting the bed.

# IMPROVE PATIENT EXPERIENCE

## CHALLENGE

- Stressful environment and patient discomfort <sup>24</sup>
- Painful movements
- Patients sleep quality is disturbed by the surrounding noise <sup>25</sup>



## SOLUTION

Bed features increasing patients comfort during hospital stay lead to **better satisfaction and health outcomes**.



### Integrated mattress

Integrated compressor of Air2Care and HybriMatt with reduced vibration by more than 50% <sup>26</sup>, which provides patients with better comfort.



### USB integration

The integrated USB port allows smart devices to be utilized safely from the bed and enables socialization.



### Compatibility with overbed tables

Self-service overbed tables influence the comfort of patients with reduced mobility.



### Night light

Undercarriage light helps the patient with orientation in the room at night.

## The Positive Effects of Ergoframe®



### Standard Bed

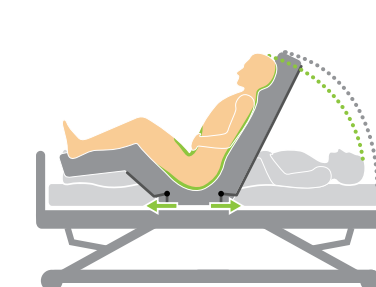
Most affected areas by extensive pressure and shearing forces.

Higher comfort

Reducing shearing forces

Reduced sliding

Minimum patient migration



### Bed with Ergoframe®

- 16% reduction in peak pressure in pelvic area <sup>27</sup>.
- Sliding down prevention <sup>27</sup>.





# SAFE PATIENT MOVING & HANDLING

## CHALLENGE

- 20% of nurses' working time is spent on patient mobility and handling<sup>28</sup>
- 47% of caregivers reported back pain<sup>5</sup>
- Caregivers are still at top of the number of work-related MSD's<sup>29</sup>

Nurse turns immobile patients up to  
**11×** per shift<sup>30</sup>



Read the full report  
about Lateral tilt:  
A promising approach  
against MSDs



## SOLUTION

Lateral tilt is turning into a new gold standard in acute care that delivers premium ergonomics of caregivers.

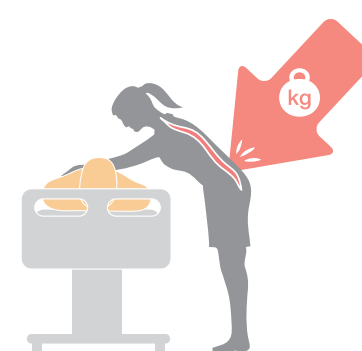
**- 67%**

of forces needed for turning the patient<sup>6</sup>

**- 20%**

of compression of lumbar spine during patient handling<sup>6</sup>

Lateral Tilt\* simplifying daily procedures



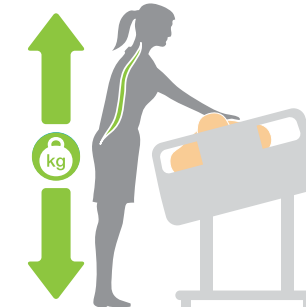
The traditional way of turning the patient can lead to a back injury

Skin assessment

Patient hygiene

Positioning

Bed making

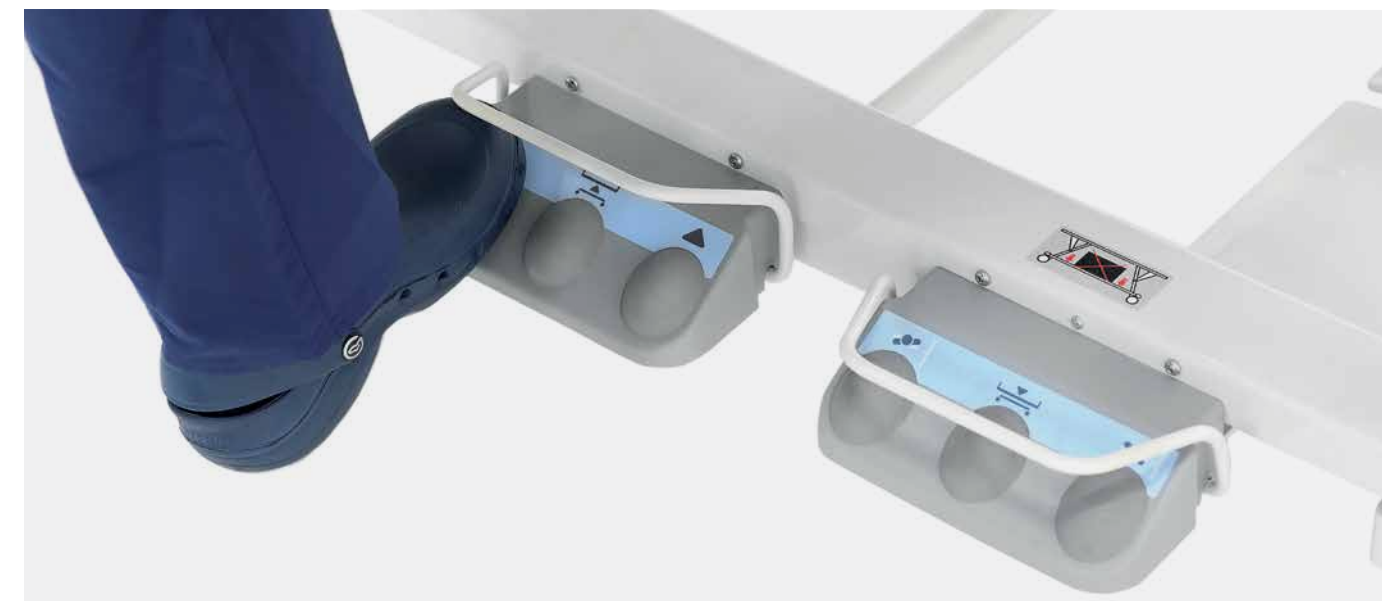


Lateral tilt for ergonomically correct care

\* Up to 15 degrees on strain reduction for repositioning immobile patients.

## Foot controls

Easy control of the hospital bed ensures the ergonomic position of the caregiver and effective handling of the patient. Left pedal adjusts height of the bed and the right one turns the bed.



# EASY PATIENT TRANSPORTATION

## CHALLENGE

- Pushing and pulling occupied beds is considered a high-risk task for developing MSD's because of spinal load<sup>31</sup>
- Maneuverability of the bed in narrow hospital corridors
- Occupied bed needs to be transported by 2 caregivers<sup>32</sup>



Read the full report  
about Ergonomic and  
effortless activation  
of Softbrakes



Read the full report:  
Streamlining patient  
transport



## SOLUTION

Features like EasyDrive® and 5<sup>th</sup> castor make bed manipulation easier and support caregivers during patient transportation.

### 1 caregiver

can transport patient without extended effort and risk of injury with EasyDrive®<sup>8</sup>

### 5 km

for one recharge<sup>8</sup>

### SoftBrake

A unique design of a castor that provides excellence in the operation of the brake levers, with low physical strain needed to prevent caregivers from musculoskeletal injuries.



### EasyDrive®

Powered 5<sup>th</sup> castor which supports advanced mobility of patient transportation with enhanced safety for the caregiver and patient.

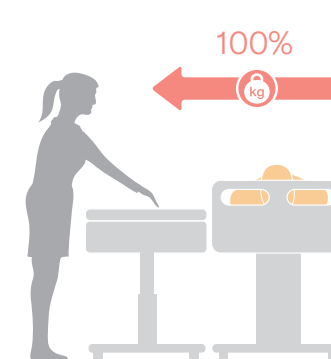


### 5<sup>th</sup> castor

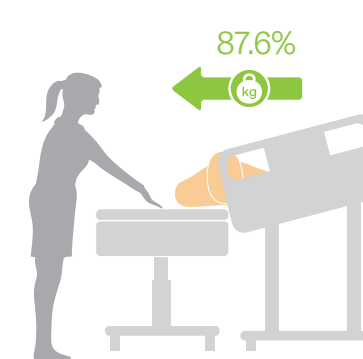
The 5<sup>th</sup> castor makes transporting the bed through long corridors easier, maintaining a straight line. In addition, the castor creates a turning point in the center of the bed.



## Lateral tilt making patient transfer easier<sup>30</sup>



Standard patient transfer



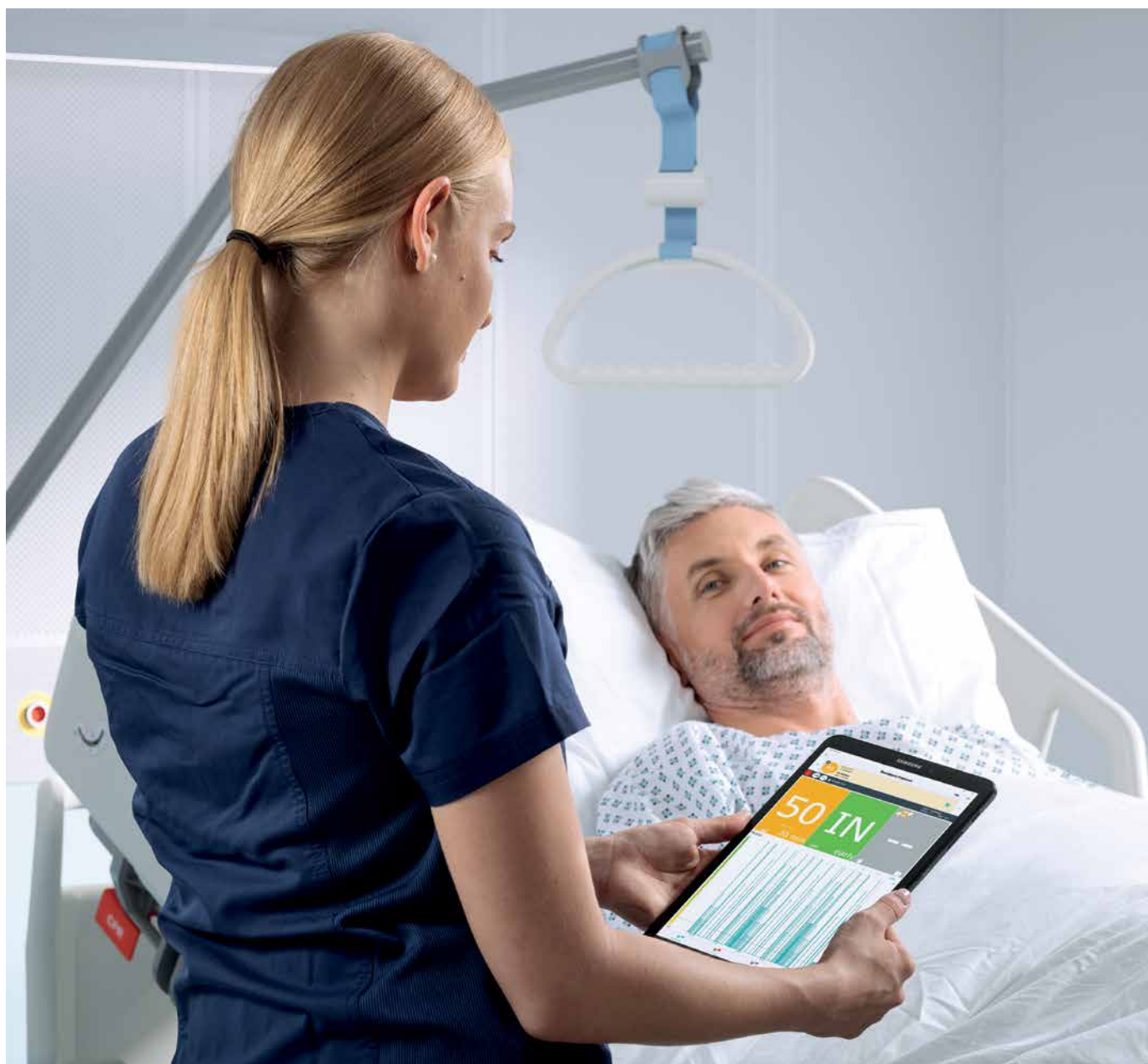
Save 12.4% of physical effort



# SIMPLIFY CAREGIVER PROCEDURES

## CHALLENGE

- Patient care can be compromised because of the insufficient number of registered nurses<sup>33</sup>
- 15.6% of nurses reported burn-out<sup>2</sup>
- 41% of caregivers suffer from a lack of time<sup>5</sup>

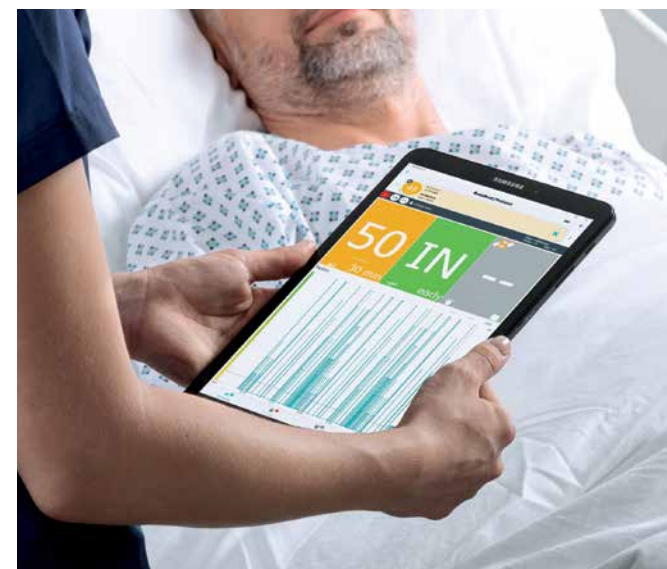


## SOLUTION

Our smart care solutions such as SafeSense 3, SmartTracking & Integrated Air2Care mattress facilitate daily tasks of caregivers and help them to be more efficient.

### SafeSense 3

Smart care solution which helps to save time by giving a real-time overview of the patient and reduces the number of unnecessary operations.



### SmartTracking

A unique smart concept that performs assets and patient tracking and enables caregivers to find equipment with room-level accuracy.



### Integrated mattress control panel

Control panel of integrated mattress is a part of siderails and allows easier & quicker setting to fit the clinical conditions of patients.



### X-ray cassette holder

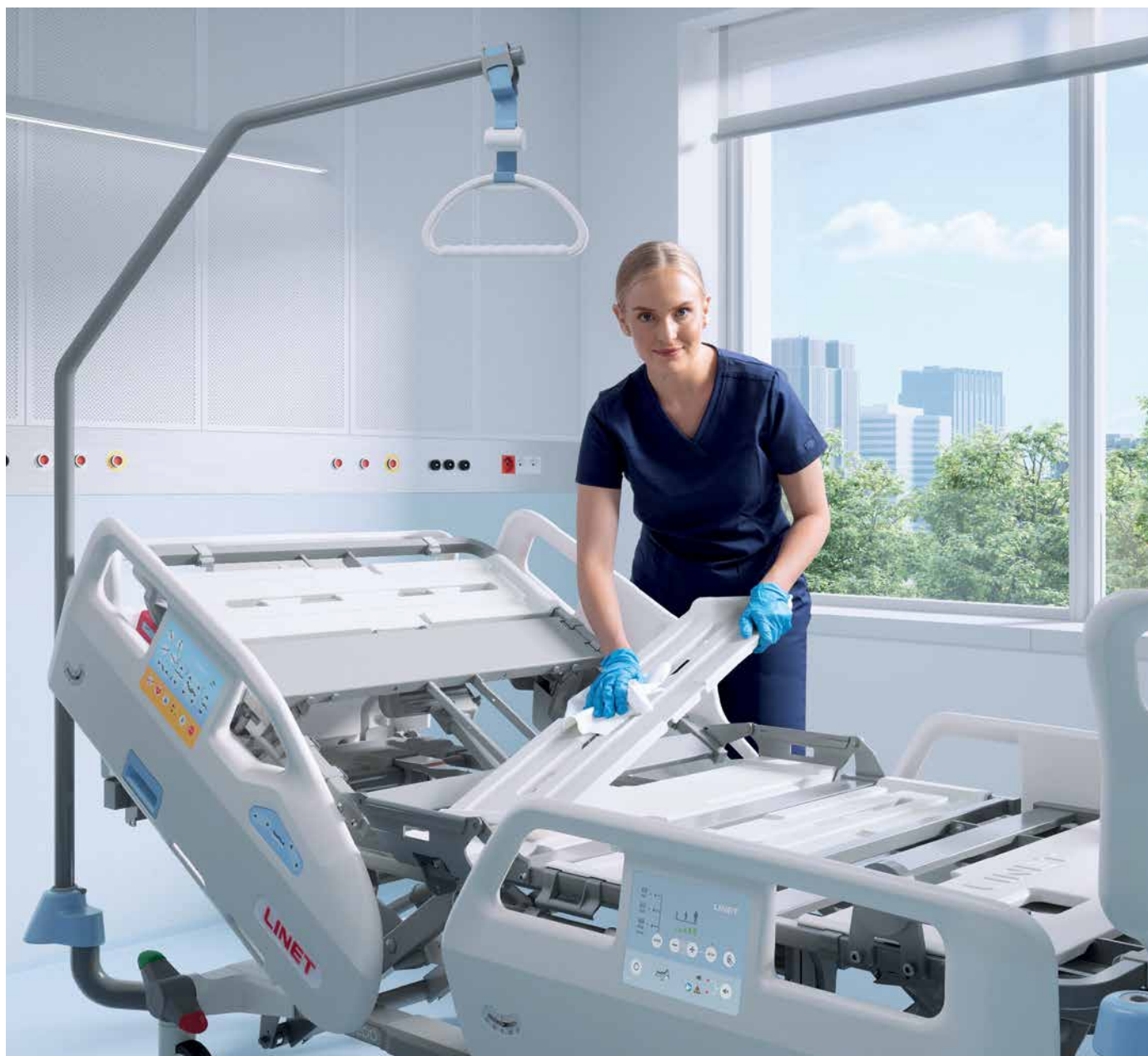
X-ray procedure without the need of transferring the patient.





## CHALLENGE

- The need for fast and effective cleanability of the equipment and prevention of infection
- Nurses can spend **27%** of their shift dealing with administrative tasks<sup>34</sup>
- **25%** of injuries in hospital are related to slip, trip and fall<sup>35</sup>



## SOLUTION

Advanced technologies allow easier patient moving, handling and monitoring.

### Washable Solution

The acuity adaptable hospital bed ensuring compliance with the highest hygiene standards in variable design options.



### Single platform

Platform solution means only one user-friendly interface, simpler training for nurses, and standardized cleaning procedures.



### Convenient cells maintenance

Individual cells of Air2Care Integrated are removable and can be easily cleaned, decontaminated or replaced.



### Open Mattress Architecture

Any compatible type of mattress can be placed on the bed and follow hospital standards for pressure prevention.





# KEY FEATURES OVERVIEW



Lateral tilt delivers premium ergonomics to caregivers and effective patients' mobilization.



Mobi-Lift® handle provides support during bed exit.



EasyDrive® enables patient transportation by only one caregiver.



SoftBrake castor makes operation of the brake levers easier with less physical strain.



Integrated Air2Care and HybriMatt mattresses increases patient comfort and ease of caregiver use while minimizing physical strain.



Mobi-Grips provide support for self-mobilization.



Mobi-Pad adjusts the height of the bed.



ErgoFrame® makes patient positioning more comfortable.

# SIDERAILS OVERVIEW



Safe&Free siderails for nursing homes add a home look to the bed, can be adjusted to different heights and assist patients whilst standing up.



Safe&Free full split siderails in combination with mobilization features support patients during ingress and egress out of the bed and help with early patient mobilization.



Single collapsible siderails contribute effectively to fall prevention and thanks to the simple release mechanism are easy to use by staff.

## DesignInk®



Apple green



Beige grey



Coral red



Garnet red



Ochre yellow



Jade green



Light blue



Paris blue



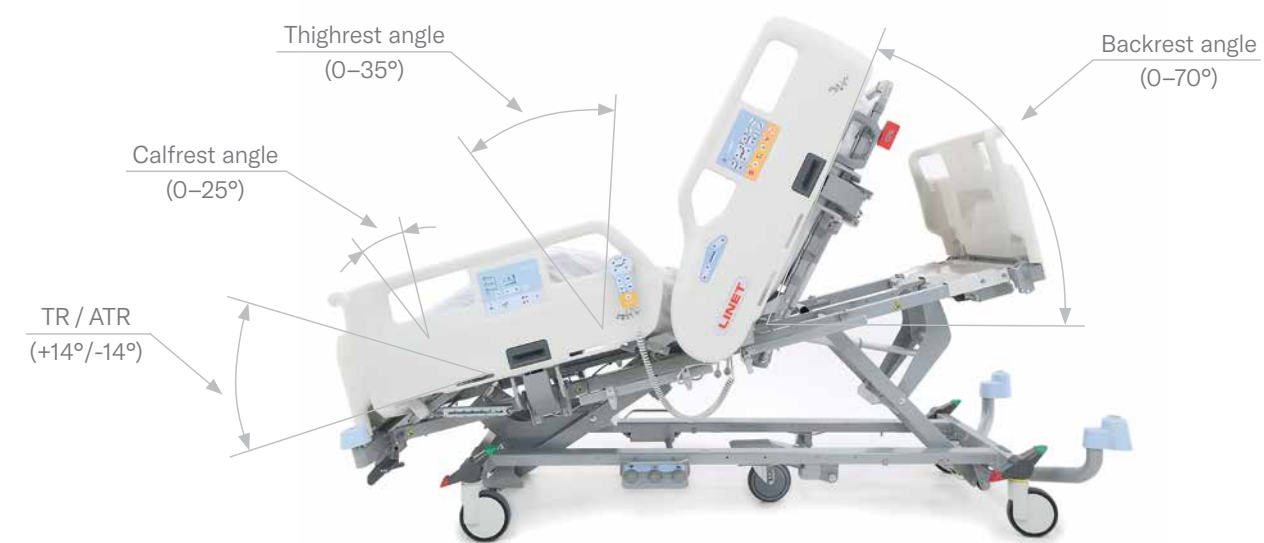
Royal blue



Olive green

\* Please note actual shade of color may vary.

# TECHNICAL SPECIFICATIONS



## BED HEIGHT SPECIFICATION\*

CASTOR TYPE	300 MIN	300 MAX	300LT MIN	300LT MAX
Tente Linea 125 mm	25.5 cm	75.9 cm	39.4 cm	89.8 cm
Tente Linea 150 mm	28 cm	78.4 cm	41.9 cm	92.3 cm
Tente Integral 150 mm	31.3 cm	81.7 cm	45.2 cm	95.6 cm
Tente Integral Soft Brake 150 mm	30.8 cm	81.2 cm	44.7 cm	95.1 cm

The SafePosition is elevated by 11,9 cm from its lowest position.

## TECHNICAL SPECIFICATIONS

ESSENZA	300	300LT
SWL	300 kg	270 kg
Max. patient weight (application environment 1,2)	235 kg	205 kg
Max. patient weight (application environment 3,5)	265 kg	235 kg

## Accessories



Telescopic IV pole



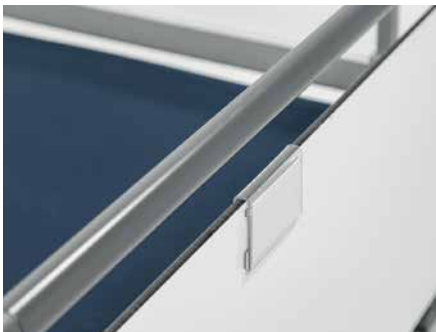
Lifting pole handle



Handset holder horizontal



Grey plastic triangular holder



Name holder



Positioning cushion



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