



 **tidewave**

The only mattress you'll never hear, feel, or see moving
– **even though it always is**

www.tidewave.no





The Tidewave Hug

Stabilizing and providing the user a comfortable hug. The unique curve offers improved pressure distribution and contributes to make the user feel secure and comfortable.

Stable movement

The body moves in synchronization with the mattress making sure there is less risk of shear forces and friction.

Undisturbed sleep

Slow and continuous repositioning ensures improved sleep quality throughout the night. This can improve quality of life and enhance daily life performance.

All-in-one system

A high specification PU foam mattress to provide excellent pressure distribution combined with a state-of-the-art repositioning system. Easy to fit in most beds.





It's not just about the right position – it's about the journey

A unique mattress with the goal of setting new standards for pressure ulcer prevention. Prevents and heals pressure ulcers including category 4.

Recreating the body's natural movement so gently that the user will not be disturbed. Automatically adapts to the person's body for a stable and synchronized movement. A curved mattress that creates continuous movement.

Providing improved quality of life, quality of care and piece of mind for next-of-kin.

Adapted to the weight class of the user

Tidewave acknowledges that every person and situation is different. With a wide range of sizes and several foam densities, the mattress can be optimized for user weights from **9 kg to 150 kg**.

High quality manufacturing

Produced and developed in the fjords of Norway

Highly wear resistant cover

Waterproof, breathable and washable up to 70°C. A resilient multistretch cover.

High resilient PU foam

Available in soft, medium, firm

Low sound level

<19 dB(a). Measured in accordance to ISO 3746:2010

Approvals

- ✓ CE marked according to MDR
- ✓ CB Certificate for electrical safety
- ✓ Tested with spinal cord injuries
- ✓ Home healthcare
- ✓ Hospitals and institutions
- ✓ Long term care homes





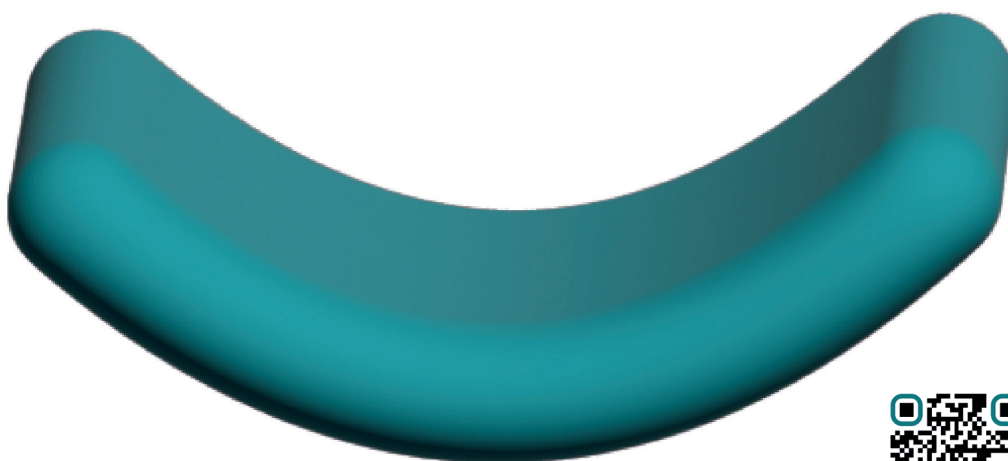
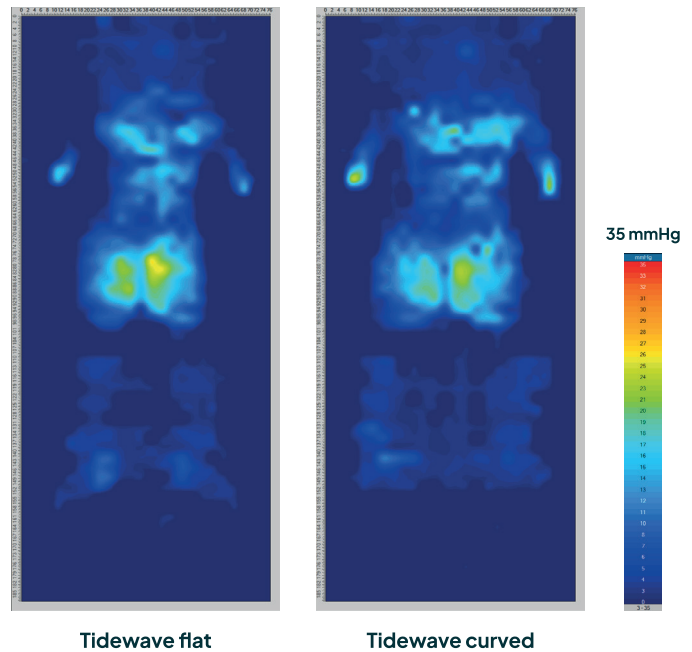
The mattress creates **never ending pressure distribution** through the patient's body

The only mattress in the world that creates the curve

The one and only patented curved mattress. By increasing the surface area with the curve, the mattress distributes pressure evenly and minimizes pressure on high risk places, such as the sacrum.

Continuous movement

Many of the existing mattresses try to recreate the nurse's procedure by moving the patient's body at regularly occurring intervals. The Tidewave Mattress recreates the movement of an able-bodied person by moving slow and continuously. The continuous movement means there is no need for manual repositionings - making life better for patients and healthcare personnel.



Pressure imaging test by NORCE





Every person is unique

With the opportunity to individualize settings to accommodate the user's needs, this mattress is beneficial for various clinical situations.

Turning direction: Both sides, left side and centre, right side and centre

Turning angle: 10, 20 or 30 degrees

Pause on each side: 15 min, 30 min or continuous turning

Turning time from side to side: 20 min, 40 min or 1 hour

Care function: The mattress deflates and restarts automatically after 30 minutes.

Standard program available for those without specific individual clinical needs.





“Now I can sleep all night
and perform better
during the day”

Child with Duchenne Muscle Dystrophy



“Nurses no longer
had to disturb the very
pain-affected patients”

Head nurse at a palliative ward



“The pain I had in my
legs are completely gone
just after a few days on
the mattress”

Patient at nursing home





Quality of care, quality of life

Being an immobile patient normally means discomfort due to prolonged time in one position and thus sleep is interrupted when being repositioned.

The user

Using the Tidewave means a long healthy sleep and less pain - thus reductions in pain medication. Existing wounds can start to heal. The Tidewave Mattress promotes the feeling of autonomy and well-being for the user.

The next-of-kin

Relatives and next-of-kin get peace of mind knowing that their loved ones are continuously moving with the mattress. Improving quality of life.

Healthcare personnel

Reduction of sick leave and heavy manual handling. More time for patient-oriented work. The Tidewave Mattress can relieve the daily workload. Less strain on carers thus easier to recruit new.

The institutions

Optimal repositioning frequency without the need for human resources. Reducing the prevalence of pressure ulcers and a reduction in cost of wound management.



Prevents and heals pressure ulcers



Reduction in pain medication



Better sleep, more alert



Less heavy lifting, reduced risk for sick leave



More cost- and resource efficient

Documented benefits after implementing Tidewave

A benefit assessment conducted at a nursing home in Norway has revealed potential significant cost savings when implementing the Tidewave Mattress. The study takes into account the time saved on manually reposition a patient and calculating the average pay of a nurse. The time and cost savings related to organizing and travelling to the patient are not included.

The healthcare situation

The patient has dementia and wakes up during the manual repositioning. Due to cognitive decrease, she struggles and has a hard time cooperating. In addition, she has reduced communication and challenges to express herself verbally.

Time-consuming repositioning

Due to the patient's condition, the manual repositioning required minimum two nurses at a time. In total, the patient was repositioned 4 times during a 14 hours night, taking at least 30 minutes each time.

€ 25 957

EUR saved on time per year for 1 patient after implementing Tidewave

*exchange rate per 01.2024

“It is a great addition to our everyday work life.”

Nurse from the study



Watch the nurse's full interview from the study



Study shows:

The economical impact

of a product that reduces the daily cost of resource management

"The cost saving of implementing Tidewave is even greater as it reduces resource use and allows a customized and optimal reposition frequency."

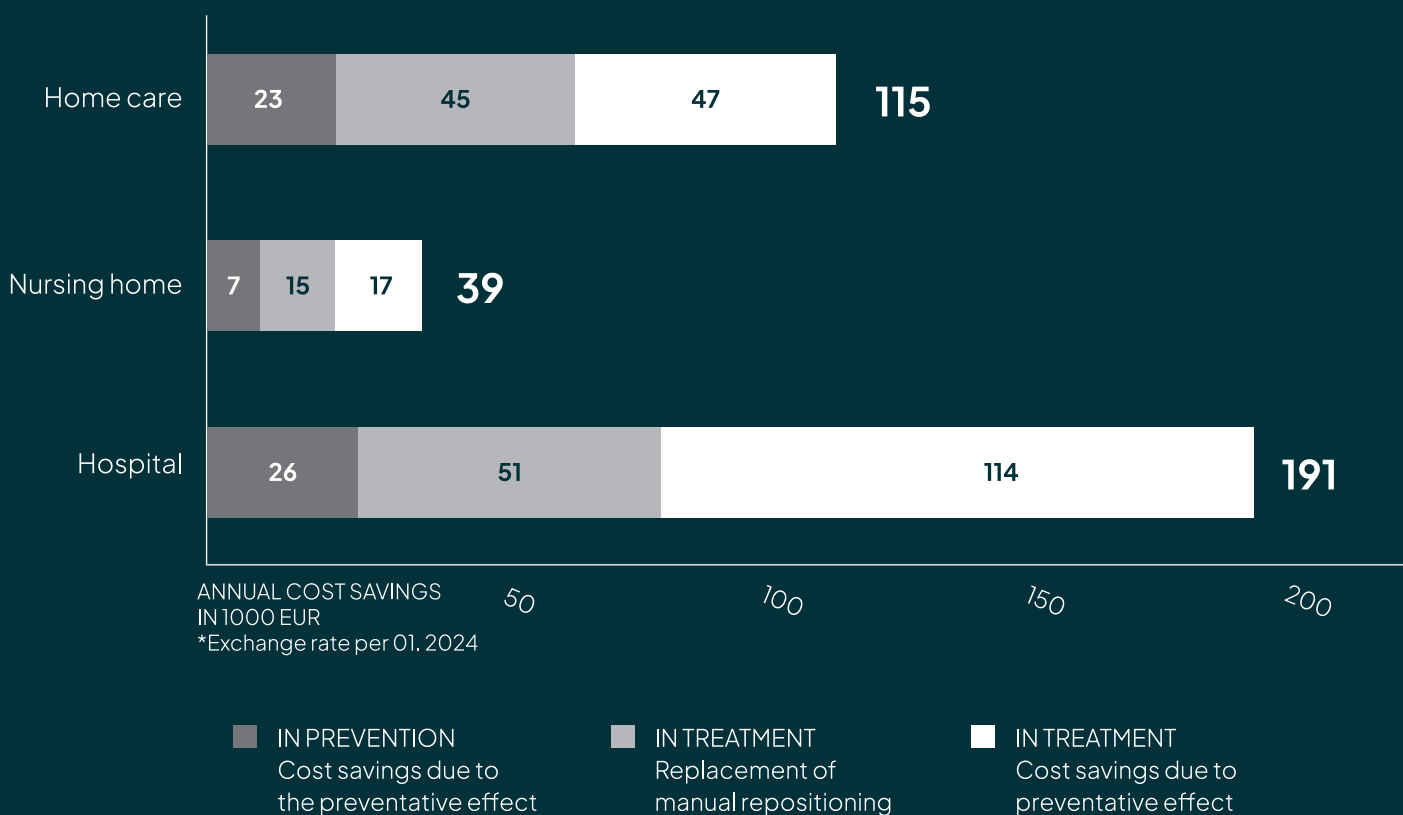
- Menon Economics



Economic evaluation by
Menon Economics

Potential effects

- ✓ More time for patient-oriented work
- ✓ A reduction of sick leave
- ✓ Optimized and individualized repositioning frequency
- ✓ Reduction of manual labor to reposition
- ✓ Increase the feeling of autonomy and self-esteem for the patient
- ✓ Reduce recruitment challenges



Technical data

A high quality product with safe, user friendly, and adaptable technology.

Classification	Medical device class 1 according to MDR
Functions	3 different options for direction, turning degree, speed and pause
Turning intervals	From slow to very slow turning speed. 20, 40 or 60 minutes from side to side
Alarms	Security autostop function if backrest raised above 30° including a red light indicator and a fault red light indicator
Connection	Quick release connector for air hoses and electrical signals. Functions as CPR release
CPR-functions	Squeeze red release button on the CPR quick release connection
Air cells	One layer air cells to shape the curve and another layer air cells to reposition the user
Dimensions pump unit	25 cm x 28 cm x 13 cm
Weight pump unit	5 kg
Power and consumption	100–240VAC 50–60Hz. Less than 30W
Electrical insulation	Class II, 2 MOPP/MOOP
Noise level	<19 dB(a) according to ISO 3746:2010
Materials	Mattress: Polyether HR cold foam. Air cells: PU-coated nylon. Hygiene cover: PU/Polyethylen (top). Pump unit: ABS and nylon
Mattress weight	Tidewave Mattress: 20 kg. Tidewave Mattress Jr: 12 kg. (Including air cells)
Mattress sizes	70x160, 85x190–220 cm. 90x190–220 cm
Safe working load	200 kg





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