Continuous protection

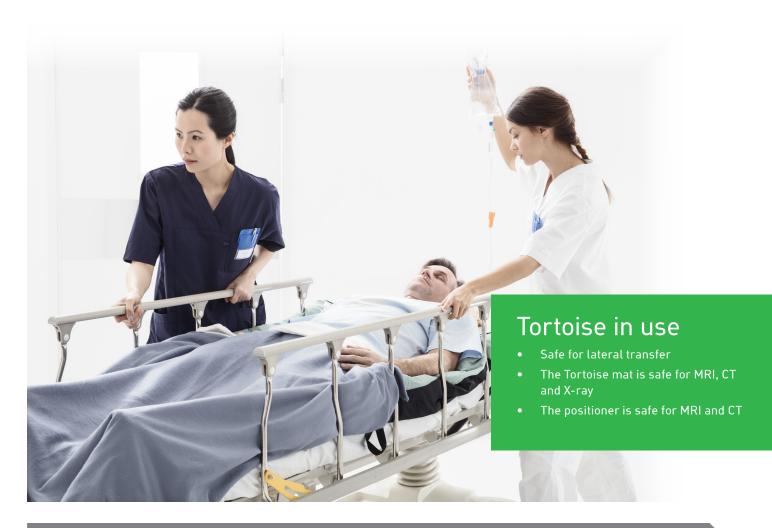




Continuous protection

Tortoise® is a unique turning and positioning system in that it promotes safe patient handling while also acting as a support surface. The system facilitates pressure redistribution by increasing the contact surface area.

- In the ICU, Tortoise may reduce the cost of support surfaces. In a quality improvement project, one facility used Tortoise to replace specialty beds and reported a 66% reduction in bed rental cost within one year¹
- The system can also be used to protect patients earlier and on less forgiving surfaces such as in the ER and imaging departments. Tortoise is designed to stay with the patients throughout the continuum of care, providing continuous protection.



Mölnlycke Tortoise Turning and Positioning System – throughout the continuum of care:





'Significant reduction in tissue compressive deformations'

'Our recent internationally published MRI-based scientific study revealed a significant reduction in tissue compressive deformations when adding Tortoise® to a foam mattress, as the Tortoise further enhances the contact surface of the body through increased envelopment. The combination of preventative interventions such as a quality mattress, plus Mepilex® Border dressing and Tortoise provides the greatest reduction of tissue compressive deformations and should therefore lead to improved pressure ulcer/injury prevention outcomes.'

Amit Gefen, PhD, MSc, BSc Professor in Biomedical Engineering at Tel Aviv University, Israel.

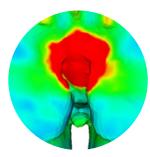
Reduce tissue deformation

Deep Pressure Ulcers and deep tissue injuries are thought to be mainly due to deformation of deeper tissues resulting from pressure and shear. Utilising Finite Element modeling, we can examine how the addition of Tortoise to different surfaces can reduce the risk of tissue damage*.

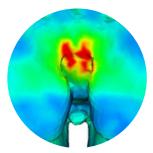
A scan of the muscle layer shows how placing Tortoise over different surfaces reduces stresses in the soft tissue under the sacrum. You can compare this with the small reduction in stresses achieved by instead adding a turning and positioning system that does not offer envelopment².

Hard surface

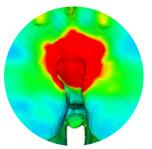
Hard surfaces include stretchers in the ED and the tables of MRI machines.



Hard surface only (Control)



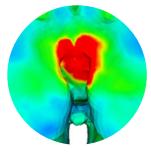
Hard surface and Tortoise (90-100% reduction)



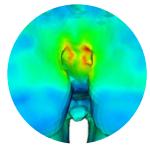
Hard surface and AirTap™**
(0-10% reduction)

Soft surface

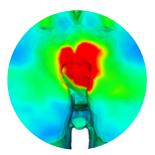
A mattress in the ICU or other departments could be an example of a soft surface.



Soft surface only (Control)



Soft surface and Tortoise (90-100% reduction)



Soft surface and AirTap™** (0-10% reduction)

Mölnlycke® Tortoise® Turning and Positioning System

Weight limit, max 400 kg (880 lbs)

Approved for imaging.

The Tortoise® mat is safe for MRI, CT and X-ray. The positioner can be left in place for MRI and CT.

Compatible with Low Air Loss mattresses^{3, 4}

Mölnlycke® Z-flo® Fluidized Positioner Helps maintain the desired turn while providing continuous support.



Color-coded handles

Make it easier for caregivers to communicate safe patient handling cues during repositioning

White handles

Handles placed closer to the body facilitate boosting of the patient.



NEW!

Sacral image

Helps you best position the patient to ensure envelopment. It also helps you align the patient and the mat with where the bed folds.





Mölnlycke® Z-Flo® Fluidized Positioner can be molded to conform to the patient's body and will keep them in the desired position over time. It can also be used for micro turns for hemodynamically unstable patients.

'The Tortoise® is the trifecta product'

Chenel Trevellini, MSN, RN, CWOCN Wound Ostomy Continence Nurse, Mount Sinai, New York, USA.

'This simple yet innovative product helped us to reduce our dependency on expensive support surface rentals by providing effective pressure redistribution, while supporting and protecting our nursing staff during the intervention of turning and positioning, which decreased our overall hospital acquired pressure injury rates. We enjoyed improvements in patient safety, staff safety, contributing greatly to the hospital's financial bottom line.'

Tuck the tail

Helps create envelopment through positive air displacement. Also serves as a brake to maintain the patient's position. Marked in red as a reminder that it should be tucked in, i.e. not visible.



Scan the QR code to go directly to our Tortoise resources. Here you will find further information and instructional videos showing just how easy Tortoise is to use.

Benefits of safe patient handling

Manual patient handling is unsafe

Over time the repeated strain of heavy lifting takes a toll on the caregiver's body, making it a leading cause of caregivers leaving their profession or even being forced into early retirement⁵.

Tortoise® aids in boosting patients and facilitates lateral transfers which can reduce the need for patient lifting. The new version has helpful information printed directly onto the mat, making it even easier to use and protecting patients and caregivers alike.

Tortoise reduces the risk of caregiver injury by enabling safe and ergonomic handling of patients – and by cutting down the number of times patients have to be handled each workday. This is because the system holds the patient in the desired position over time⁶.

Health Economic Benefits

Approximately \$20 billion are spent annually on back injuries in the healthcare industry. For more than 40 years nurses have had the highest job-related injury rates of all healthcare personnel with manual lifting being the greatest risk factor. Tortoise has shown a reduction in caregiver injuries leading to a cost savings of \$108,948 at one Long Term care facility.

In the US alone pressure ulcers affect 2.5 million people and cause approximately 60,000 deaths annually 10. The estimated cost of treating pressure ulcers ranges from \$20,900 to \$151,700 10. Thanks to the way Tortoise envelops and protects patients, the system can be used to enhance patient surfaces and have even in some cases replaced overlays and specialty mattresses 1.11. In one facility Tortoise implementation led to cost avoidance of \$127,146 in specialty bed rentals 11.

Did you know?

Hospital Acquired Condition (HAC) rates can impact hospital penalties and reputation¹².



HACRP penalties are public and often reported by media outlets

Top 3 reasons

Why choose Mölnlycke® Tortoise® Turning and Positioning System

#1

Pressure Ulcer Prevention*

Tortoise is a support surface that facilitates pressure redistribution through envelopment. It also aids in turning patients and the Tortoise mat together with the Z-Flo® Fluidized Positioner will protect the patient by keeping them in the desired position over time⁶.

Tortoise is designed to stay with the patient throughout the continuum of care, providing sustained protection while also relieving the physical burden on caregivers.

#2

Safe patient handling

Mölnlycke Tortoise Turning and Positioning System promotes safe patient handling and may reduce risk of caregiver injuries. The system could also reduce workload as patients remain in the desired position over time.

The possibility to use it for lateral transfers may reduce the need for lifting during patient transfers.

#3

Reduced cost for specialty surfaces – and more

By enhancing the performance of existing support surfaces you could decrease expenditure for overlays and specialty beds. In a quality improvement project, one facility reported 66% reduction in bed rental cost within one year¹.

Tortoise may also reduce costs of pressure ulcers treatment* and for claims related to patient handling. In a quality improvement project, one facility reported 55% reduction in caregiver injuries within one year¹.

Proving it every day

At Mölnlycke®, we deliver innovative solutions for managing wounds, improving surgical safety and efficiency and preventing pressure ulcers. Solutions that help achieve better outcomes and are backed by clinical and health-economic evidence.

In everything we do, we are guided by a single purpose: to help healthcare professionals perform at their best. And we're committed to proving it every day.

Mölnlycke® Tortoise® Turning and Positioning System

Product Code Description		Pcs/ case
1400800	Tortoise Turning and Positioning System: 1 positioning PAD (38" x 58"), 1 fluidized positioner (16" x 30") (PAD - Positive Air Displacement Offloading & Turning)	1
1400801	Tortoise Turning and Positioning System Bariatric: 1 positioning PAD (49" x 58"), 1 fluidized positioner (25" x 36") (PAD - Positive Air Displacement Offloading & Turning)	1

References: 1. C. Trevellini, Connecting the dots: Pressure Ulcer Prevention and Safe Patient Handling. Poster presentation at National Pressure Ulcer Advisory Panel Biennial Conference, Orland, Florida, United States of America, 2015. 2. Mölnlycke Health Care. FE modelling. Report no. 20180809-002. August 2018. Data on file. 3. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 August 2018. Data on file. 4. Mölnlycke Health Care. Tortoise shades on file. 4. Mölnlycke Health Care. Tortoise interface temperatures. 13 Aug

Find out more at www.molnlycke.com

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