Pressure injury and safe patient handling solutions

- Prevalon® Mobile Air Transfer Systems
- Prevalon® Turn & Position Systems
- Prevalon® Heel Protectors
- Prevalon® Seated Positioning System

Sage Products is now part of Stryker.
Are your patients at risk for pressure injuries?

Pressure injuries are a significant health issue and one of the biggest challenges organizations face on a day-to-day basis. Aside from the high cost of treatment, pressure injuries also have a major impact on patients’ lives and on a facility’s ability to provide appropriate care to its patients.¹

Prevalence and cost

A 10-year prevalence survey in the Journal of Wound, Ostomy & Continence Nursing, published in 2017, stated that the overall prevalence of pressure injuries is 9.3%.²

The cost to treat a pressure ulcer can range from $20,900 to $151,700, depending on the stage of the ulcer.³

A challenging condition

Addressing pressure injuries has always been a challenge, not just for caregivers, but also for the healthcare industry, because the epidemiology of pressure injuries varies by clinical setting.¹

The sacrum and the heels are the most common site to develop pressure injuries.⁴
Additional Risk Factors

- Reduced mobility or immobility
- Vascular disease
- Acute illness
- Level of consciousness
- Extremes of age

Pressure injuries affect more than 2.5 million patients per year

GUIDELINES

National Pressure Ulcer Advisory Panel (NPUAP)

Repositioning of an individual is undertaken to reduce the duration and magnitude of pressure over vulnerable areas of the body and to contribute to comfort, hygiene, dignity, and functional ability.

- Avoid subjecting the skin to pressure and shear forces.
- Turn the individual into a 30-degree side-lying position, and use your hand to determine if the sacrum is off the bed.
- Ensure that the heels are free from the bed.
- Continue to reposition an individual when placed on any support surface.
- Use a pressure redistributing chair cushion for individuals sitting in chairs or wheelchairs.

Wound Ostomy and Continence Nurses Society (WOCN)

For patients who are at risk for heel pressure ulcers, elevate (float) and offload the heel completely and redistribute the weight of the leg along the calf without putting pressure on the Achilles tendon.

Assess pressure ulcer(s) on admission to a care setting, and regularly reassess and monitor for any signs of skin or wound deterioration.

Implement measures to reduce the risk of developing pressure ulcers: minimize/eliminate pressure, friction, and shear.

REFERENCES:
How do we stop nurses from becoming patients?

Healthcare professionals incur musculoskeletal (MSK) injuries/nonfatal injuries on the job more often than any other private industry occupation.¹

Healthcare workers are more likely to get injured on the job than any other occupation—more than construction laborers, firefighters, and police officers.¹

Who takes care of patients when healthcare workers are injured on the job?

Many healthcare workers leave the profession early due to debilitating arm, back, and shoulder injuries. More nurses are worried about getting a back injury than contracting an infectious disease.⁹ And for good reason:

- **56%** of nurses have experienced MSK pain that was caused by or made worse at work⁹
- **80%** continued to work despite having MSK pain⁹
- **48%** of hospital worker injuries that result in days away from work are caused by overexertion or bodily reaction which includes motions such as lifting, bending, reaching, or slipping without falling.¹⁰

The most common tasks that lead to injury are patient:

- Lifting
- Transferring
- Repositioning

It’s a costly problem …

<table>
<thead>
<tr>
<th>Task</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average compensation claim due to patient handling</td>
<td>$15,800</td>
</tr>
<tr>
<td>Average direct cost associated with an occupational back injury of healthcare provider</td>
<td>$37,000</td>
</tr>
<tr>
<td>Cost of nurse turnover</td>
<td>$27,000 to $103,000</td>
</tr>
</tbody>
</table>

... that may get worse

- Patient obesity levels are projected to increase¹
- Average age of nurses has risen⁷

Estimates project 260,000 unfilled nursing jobs by 2025⁸

Who takes care of patients when healthcare workers are injured on the job?

- Average age of nurses has risen⁷

Healthcare worker injury:

- High frequency task
- Posture
- Exertion
- Duration of task

Average compensation claim due to patient handling:

- $15,800

Average direct cost associated with occupational back injury of healthcare provider:

- $37,000

Cost of nurse turnover:

- $27,000 to $103,000
How is your hospital addressing safe patient handling?

There is no such thing as safe manual lifting of patients, regardless of body mechanics.2

- 30+ years of research and experience shows that relying on proper body mechanics or manual lifting techniques alone is not effective to reduce back and other MSK injuries.11

Hospitals are investing in equipment, but healthcare workers are still getting injured

82% of healthcare workers who sustained an MSK injury did not use facility lifting equipment.13

Why aren’t nursing staff using lifting equipment?

The equipment may not be easily accessible. It may be located away from patient care areas, moved to another floor, unavailable while being reprocessed, or, worse yet, locked away in a closet.

Nurses can lift a cumulative weight of up to 1.8 TONS during an 8 hr shift.12

RECOMMENDATIONS & GUIDELINES

American Nurses Association (ANA)14
Safe Patient Handling and Mobility (SPHM) Interprofessional National Standards Across the Care Continuum

Principles of the ANA Standards for SPHM, include:

- Establish a culture of safety.
- Implement and sustain a SPHM program.
- Select, install, and maintain SPHM technology.
- Integrate patient-centered SPHM assessment, plan of care, and use of SPHM technology.

AORN15
Task Recommendations:
General lateral transfer
- Use lateral transfer device and 4 caregivers.
- Destination surface should be slightly lower.
Supine
- Anesthesiologist supports head and neck.
- Weight < 157 lb - Use lateral transfer device and 4 caregivers.
- Weight > 157 lb - Use mechanical lift with supine sling, mechanical lateral transfer device, or air-assisted lateral transfer device and 3 to 4 caregivers.

OSHA16
Lateral Transfer to and from: Bed to Stretcher, Trolley
For patients who are partially able or unable to assist:

- If patient is <100 pounds: Use a lateral sliding aid and 2 caregivers.
- If patient is 100-200 pounds: Use a lateral sliding aid -or- a friction reducing device and 2 caregivers.
- If patient is >200 pounds: Use a lateral sliding aid and 3 caregivers -or- a friction-reducing device or lateral transfer device and 2 caregivers -or- a mechanical lateral transfer device.

REFERENCES
PREVALON® MOBILE AIR TRANSFER SYSTEM (MATS)

Safely and easily transfer patients

The Prevalon Mobile Air Transfer System (MATS) is designed to provide nurses with a safe and easy way to laterally transfer their patients. The system uses a cushion of air to move patients laterally from one surface to another with significantly less pulling and without the need for lifting. It is designed to remain with the patient and provide transfer assistance throughout a hospital stay.

- Cradles patient with 2 phase inflation and raises patient in one smooth motion

NEW Prevalon Air Pump
- Easily fits into the Prevalon Air Pump Cart for easy transport or in cabinets and shelves in patient room

Imaging Capability
- Acceptable for use in MRI*, X-Ray, CT Scan, and ultrasounds

*Prevalon MATS is MRI safe by rationale. The device is made from all non-metal materials; therefore MRI safety testing was not performed. Compatibility tests did not show artifacts. Based on rationale, the MAT is electronically non-conductive and non-magnetic.

Effectively absorbs and locks in moisture to protect patient’s skin while allowing air to flow through.

INTEGRATED HEAD SUPPORT
- Inflation provides comfortable support for the head and neck

M² MICROCLIMATE BODY PAD
- Effectively absorbs and locks in moisture to protect patient’s skin while allowing air to flow through

NEW Quick Connect Valve
- Provides an easy, secure connection and a quick release

Easy Grab Handles
- Positioned along outer edges

HOSE PROTECTION SLEEVE
- Helps protect hose from environmental contamination

POINT OF CARE POWER SWITCH
- Integrated into workflow to improve efficiency by allowing caregiver to focus on patient at the bedside

Prevalon MATS
39" x 81"
10 systems/case
Reorder #3242
Reorder #3244
Reorder #3247
Without M² Microclimate Body Pad

Prevalon Air Pump - 120V
1/case
Reorder #7455
Prevalon Air Pump Filter Replacement
4/case
Reorder #7465
Hose Protection Sleeve (HPS)
50/case
Reorder #7460

Prevalon Air Pump Cart
1 cart/case
Reorder #7475

Hose Protection Sleeve (HPS)
50/case
Reorder #7460

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Hose Protection Sleeve (HPS)
50/case
Reorder #7460

Prevalon Air Pump Cart
1 cart/case
Reorder #7475

Hose Protection Sleeve (HPS)
50/case
Reorder #7460
Laterally transfer patients of all sizes

The Liftaem System helps reduce the risk of injuries resulting from lateral patient transfers. It significantly reduces the cumulative effects of handling thousands of pounds of weight in multiple patient transfers throughout a nurse’s routine shift. When used in conjunction with an evidence-based protocol, the Liftaem System can help reduce injuries and eliminate potential costs to healthcare systems.

Small, portable design blower
- Hangs from bed or stretcher for point-of-care access
- Fits into basket of Liftaem Cart for easy transport
- Convenient straps to hold hose and power cord when not in use
- Easily fits in cabinets, on shelves, and in patient rooms

Prevalon Liftaem Cart
- Hangs from bed or stretcher for point-of-care access
- Liftaem Mats fit into basket of Liftaem Cart for easy transport
- Convenient straps to hold hose and power cord when not in use
- Easily fits in cabinets, on shelves, and in patient rooms

Expandable Hose
- Extends to 10 ft to easily accommodate care settings

REFERENCE:
1. Data on File, Sage Products LLC.
Prevalon Liftaem Mat
- 48” x 80”
- 39” x 80”
- 35” x 80”
- 10 systems/case
- Reorder #3148
- Reorder #3139
- Reorder #3135

Prevalon Liftaem Half Mat
- 35” x 42”
- 10 systems/case
- Reorder #3130

Prevalon Blower
- 120V
- 1 Blower/case
- Reorder #3010

Prevalon Cart
- 1 cart/case
- Reorder #3011

Head and Foot Indicator
- Ensures proper patient placement

Center Line Indicator
- Ensures proper alignment under patient

LOW-FRICTION SURFACE
- Reduces friction to assist transfer
- Approximately 2,400 pin holes evenly distribute air-flow across mat

INLET PORT
- Easily and securely connects to blower hose in one step
- Provides quick release in case of emergency

INTEGRATED HANDLES
- Sturdy and comfortable
- Easy to clean

SEE IT IN ACTION!
View the video by scanning the QR code with your smartphone, or visit:
sageproducts.com/products/liftaem/video.cfm
PREVALON AIRTAP™ PATIENT REPOSITIONING SYSTEM

Safe positioning for healthcare workers and patients

Boosting and repositioning patients in bed is a high-frequency task. The Prevalon AirTAP System uses air-assisted technology to significantly reduce the force required to move patients. To reduce the risk of pressure ulcers, the Prevalon AirTAP System maintains an optimal microclimate and delivers proper sacral offloading.

Hi-tech Fabric
- Promotes a healthy microclimate for the skin and is compatible with low air loss technology
- Easy to clean surface

M² Microclimate Body Pad
- Effectively absorbs and locks in moisture to protect patient’s skin while allowing air to flow through

NEW Prevalon Air Pump
- Safely fits under most ICU beds
- Hanging clip allows booster pump to travel easily with bed

REFERENCE:
1. Data on File, Sage Products LLC.
Black Positioning Handles
- Encourages proper ergonomic position for the healthcare worker when preparing to reposition patient

EASY ROLL HANDLES
- Encourages proper posture for healthcare worker

ANCHOR WEDGE SYSTEM
- Helps maintain natural side lying position and reduces pressure by offloading sacrum
- Minimizes patient migration down the bed
- Reduces the need for boosting, minimizing shear and friction

TAPERED DESIGN
- Ensures patient’s head maintains neutral position while inflated

NEW Quick Connect Valve
- Provides an easy, secure connection and a quick release

Prevalon AirTAP Patient Repositioning System
- 1 Prevalon AirTAP Glide Sheet
- 1 M’Microclimate Body Pad
- 2 30° Body Wedges

5 systems/case Reorder #7217 Reorder #7227

30° Anchor Wedge System
- 5 pair/case Reorder #7295

Prevalon AirTAP Glide Sheet
- 10 each/case Reorder #7219 Reorder #7229

Prevalon Booster Pump - 120V
- 1/case Reorder #7450

Prevalon Air Pump Filter Replacement
- 4/case Reorder #7465

Hose Protection Sleeve (HPS)
- 50/case Reorder #7460

Prevalon Air Pump - 120V
- 1/case Reorder #7455

Prevalon AirTAP Booster Pump Filter Replacement
- 5/case Reorder #3010-F

STANDARD
- 36” x 55”

M’ Microclimate Body Pad
- 30 pads/case (6 bags of 5)
- Reorder #7250

<40 in <102 cm
<550 lbs <250 kg

800-323-2220 10
PREVALON® TURN & POSITION SYSTEM (TAP) XL/XXL

Turning and repositioning of larger patients

This system helps reduce the risk of injury to nurses and other caregivers by providing an ergonomically friendly method of turning and repositioning larger patients.

Prevalon TAP XL/XXL

1 Mattress Cover
1 Low-Friction Glide Sheet with Anti-Shear Strap
6 M² Microclimate Body Pads
2 30° Body Wedges

XL
41" x 51" 1 system/case Reorder #7220
40-44 in 102-132 cm < 800 lbs < 362 kg

XXL
46" x 51" 1 system/case Reorder #7230
> 45 in > 114 cm < 800 lbs < 362 kg

M² Microclimate Body Pad

XL 20 pads/case (4 bags of 5) Reorder #7255
XXL 20 pads/case (4 bags of 5) Reorder #7260

WEDGE SYSTEM

• Larger size wedges redistribute pressure for bariatric patients
• Velcro strips attach to low-friction glide sheet, keeping body wedges in place under patient

LOW-FRICTION GLIDE SHEET

• Larger size glide sheet and M² Microclimate Body Pad accommodate bariatric patients

MATTRESS COVER

• Secures to most bariatric hospital beds
• Can be used in place of a fitted/flat hospital sheet to help reduce friction

M² Microclimate Body Pad

• Effectively absorbs and locks in moisture to protect patient’s skin while allowing air to flow through

Turning and repositioning of larger patients

This system helps reduce the risk of injury to nurses and other caregivers by providing an ergonomically friendly method of turning and repositioning larger patients.
Turn and position patients safely

The Prevalon Turn & Position System 2.0, unlike lift slings and plastic slide sheets, stays under the patient at all times. It’s always ready to assist with turning, repositioning, and boosting the patient. This makes it possible for nurses and staff to achieve compliance to q2 turning protocol while providing the best care and minimizing stress on the patient.

M² Microclimate Body Pad
• Effectively absorbs and locks in moisture to protect patient’s skin while allowing air to flow through

LOW-FRICTION GLIDE SHEET
• Works with anchor wedge system to reduce friction and shear
• Dermasuede material grips the microclimate body pad to keep it in place

ANCHOR WEDGE SYSTEM
• Helps maintain natural side lying position and reduces pressure by offloading sacrum
• Minimizes patient migration down the bed
• Reduces the need for boosting, minimizing shear, and friction

ORANGE BOOST STRAPS
• Promotes proper body mechanics and reduces reliance on grip strength

BLACK POSITIONING HANDLES
• Assists with quick, gentle microturns to position the patient at the appropriate angle

M² Microclimate Body Pad
30 pads/case (6 bags of 5)
Reorder #7250

30° Body Wedges with Anchor Wedge System
5 pair/case
Reorder #7295

Low-Friction Glide Sheet
20 each/case
Reorder #7296

Prevalon TAP 2.0
2 30° Body Wedges with Anchor Wedge System
1 Low-Friction Glide Sheet
1 M² Microclimate Body Pad
5 systems/case
Reorder #7201
Reorder #7201–WBS
(Without Boost Straps)

2 30° Body Wedges with Anchor Wedge System
1 Low-Friction Glide Sheet
6 M² Microclimate Body Pads
3 systems/case
Reorder #7206
Reorder #7206–WBS
(Without Boost Straps)

STANDARD
36” x 55”
Reduce risk factors for skin injury and patient handling injury

The Prevalon Turn & Position System 1.0 is designed to assist and maintain proper patient positioning to offload the sacrum. It also effectively manages moisture and body heat to protect the patients’ skin. In addition, it helps reduce the risk of injuries to nurses and caregivers by providing a more ergonomically friendly method of repositioning patients.

30° Body Wedges
• Soft foam wedges allow staff to easily position patients for consistent protection and pressure redistribution.

Low Friction Glide Sheet
• Works with the 30° Body Wedge System to reduce friction and shear
• Dermasuede material grips the microclimate body pad to keep it in place

M² Microclimate Body Pad
• Effectively absorbs and locks in moisture to protect patient’s skin while allowing air to flow through

Anti-Shear Strap
• Anchors the system to the bed to reduce shearing

STANDARD
36” x 55”

Prevalon TAP 1.0
2 30° Body Wedges
1 Low-Friction Glide Sheet
1 M² Microclimate Body Pad
5 systems/case Reorder #7200
2 30° Body Wedges
1 Low-Friction Glide Sheet
6 M² Microclimate Body Pad
3 systems/case Reorder #7205

M² Microclimate Body Pad
30 pads/case (6 bags of 5)
Reorder #7250

30° Body Wedges
5 pair/case Reorder #7297

Low-Friction Glide Sheet
20 each/case Reorder #7296
**PREVALON® SEATED POSITIONING SYSTEM (SPS)**

Designed to promote early patient mobility and reduce risk factors for patient handling injury

Boosting and repositioning patients in the bedside chair can put clinicians at risk for injury. The Prevalon Seated Positioning System provides an easy option for clinicians to safely glide patients to an optimal upright-seated position without lifting. It is uniquely engineered to keep the seated patient in place, minimizing the need for repetitive boosting and repositioning.

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**ONE-WAY GLIDE**
- Unique material resists forward movement, ensuring patients remain in an optimal position

**MULTI-CHAMBER AIR CUSHION**
- Redistributes pressure and provides comfort and security while allowing patient to shift in the chair

**Microclimate Management Pad**
- Contains and absorbs fluid to protect patient’s skin while allowing air to flow through

**Prevalon Seated Positioning System**
- 1 Seated Positioning Cushion with Fastener Strips
- 1 Microclimate Management Pad
- 5 systems/case
- Reorder #7530
- High Elevation (Above 3000 ft)
- 5 systems/case
- Reorder #7531

**Prevalon Seated Positioning System**
- 1 Seated Positioning Cushion with Fastener Strips
- 5 Microclimate Management Pads
- 3 systems/case
- Reorder #7555
- High Elevation (Above 3000 ft)
- 3 systems/case
- Reorder #7556

**Microclimate Management Pad**
- 30 pads/case (6 bags of 5)
- Reorder #7550

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800-323-2220
The heel is the second most common site for pressure injury development. The Prevalon Heel Protector was specifically designed to help reduce the risk of heel pressure injury while keeping the foot and leg in a neutral position.

**PREVALON® HEEL PROTECTORS**

Offloads the heel
- Sequential Compression Device (SCD) Compatible

- Low-Friction Outer Shell
  - Helps maintain patient’s freedom of movement by easily sliding over bed sheets

- SCD Compatible

- Closure Straps
  - Help secure foot

- Rip-stop Nylon
  - Helps maintain patient’s freedom of movement by easily sliding over bed sheets

- SCD Compatible

- Contracture Strap
  - Helps prevent plantar flexion contracture

- Expandable Straps
  - Stretch to accommodate lower limb edema
  - No sharp edges or irritating surfaces

- Dermasuede Fabric Interior
  - Gently grips limb so it remains fully offloaded, even when patient is moving

- Offloads the heel
- Reduces plantar flexion contracture risk
- Helps prevent lateral rotation, reducing risk of peroneal nerve damage
- Sequential Compression Device (SCD) Compatible

**Prevalon Heel Protector I**
Recommended for patients with calf circumference of:
10 in – 18 in (25 cm – 46 cm)
8 packages/case
Reorder #7305

**Prevalon Heel Protector II**
Recommended for patients with calf circumference of:
10 in – 18 in (25 cm – 46 cm)
8 packages/case
Reorder #7300
2 packages/case
Reorder #7302

**Prevalon Heel Protector III**
Recommended for patients with calf circumference of:
10 in – 18 in (25 cm – 46 cm)
8 packages/case
Reorder #7355

**Prevalon Heel Protector III XL**
Recommended for patients with calf circumference of:
18 in – 24 in (46 cm – 61 cm)
2 packages/case
Reorder #7382

**Prevalon Heel Protector III Petite**
Recommended for patients with calf circumference of:
6 in – 10 in (15 cm – 25 cm)
8 packages/case
Reorder #7310
2 packages/case
Reorder #7312

**Foot and Leg Stabilizer Wedge**
For use with reorder #7300 and #7302
10 packages/case
Reorder #7350

**Contracture Strap**
- Helps prevent plantar flexion contracture

**Rip-stop Nylon**
- Helps maintain patient’s freedom of movement by easily sliding over bed sheets

**Integrated Anti-Rotation Wedge**
- Helps prevent lateral foot and leg rotation, reducing the risk of peroneal nerve damage

**Dermasuede Fabric Interior**
- Gently grips so it remains fully offloaded, even when patient is moving

**Expandable Straps**
- Stretch to accommodate lower limb edema
- No sharp edges or irritating surfaces

**SCD Compatible**

**Prevalon Heel Protector III with integrated wedge**

**Prevalon Heel Protector III XL with integrated wedge**
The three injuries in June 2014 were due to:

- One employee was injured when a patient lost their balance while being weighed.
- One employee did not request assistance or use the lateral transfer system. The lateral patient transfer device was available in the patient’s room.
- One employee was providing care in a home setting and did not have assistance to move the patient laterally from one surface to another.

These results support that an institutional intervention based on staff education and training resulted in a clinically significant decrease in healthcare worker injury.

77% reduction in healthcare worker injuries

$315,000 decrease in hospital-acquired pressure injury (HAPI)

246% greater exertion vs. 2 caregivers using SPS

72% decrease in heel pressure ulcers over 4-years

Prevalon® Promise*

Our goal is to build partnerships today that deliver better outcomes tomorrow. The Sage Prevalon Promise is designed to help address pressure injury (PI) and patient handling injury (PHI) rates through product, process, and education.

Through this partnership, we will work with you to provide the right product for the right patient to address the right problem.

The program provides the tools and resources needed to focus on reducing pressure injuries and patient handling injuries. We provide education while focusing on delivering outcomes for your patients, staff, and facility.

Sage Commitment

- Product and process education training for staff
- Pre- and Post-intervention assessments
- CustomerOne™ tracking and reporting
- Access to Sage Speaker Program with education from Key Clinical Thought Leaders
- Support and clinical education through Sage Clinical Science Liaison Team

Pressure Injury Tools

- Access to pressure injury continuing nursing education program
- Pressure injury workbook provided through Stryker
- Use of Pressure Injury Prevalence Audit online toolkit

Patient Handling Injury Tools

- Access to safe patient handling continuing nursing education program

Program Advantages

After implementing the Sage Prevalon Promise, the facility will have the ability to:

- Assist with protocol and procedure development
- Track and validate clinical and financial outcomes of implementing product
- Measure and maximize compliance to PI and PHI protocol

Did you know?

During a typical 8-hour shift, a nurse lifts 1.8 tons¹
Pressure injuries affect more than 2.5 million patients a year²
Healthcare is the #1 industry for work-related injuries³

*Facility must meet eligibility requirements as outlined in the Prevalon Promise customer agreement.

REFERENCES:
Simple Interventions. Extraordinary Outcomes™

Our market-leading products solve real problems in the healthcare industry. We develop and manufacture these products to make it easier for you to deliver essential patient care while helping to prevent infections, address skin breakdown, and reduce the risk of staff injury.

- **Comfort Bath® Cleansing Washcloths** eliminate the contamination risk from bath basins
- **M-Care® Meatal Cleansing Cloths** for the Foley Catheterized Patient
- **Help reduce your risk for incontinence-related skin problems with Comfort Shield® Barrier Cream Cloths**
- **Provide comprehensive oral care with Q•Care® Oral Cleansing and Suctioning Systems**

Receive more information at: [www.shopsageproducts.com/htoh](http://www.shopsageproducts.com/htoh) or call 800.323.2220