

Hercules Patient Repositioner™

Sizewise Solutions



Sizewise[®]
Designed to heal

A Challenge as Old as Nursing

Patient repositioning has long been viewed as a struggle for both caregivers and patients. One of the first nursing textbooks, *Nursing: its principles and practice*, referenced a nurse's back injury caused by improper patient repositioning. In 1898, when *Nursing* was published, it was common to blame the injured caregiver.

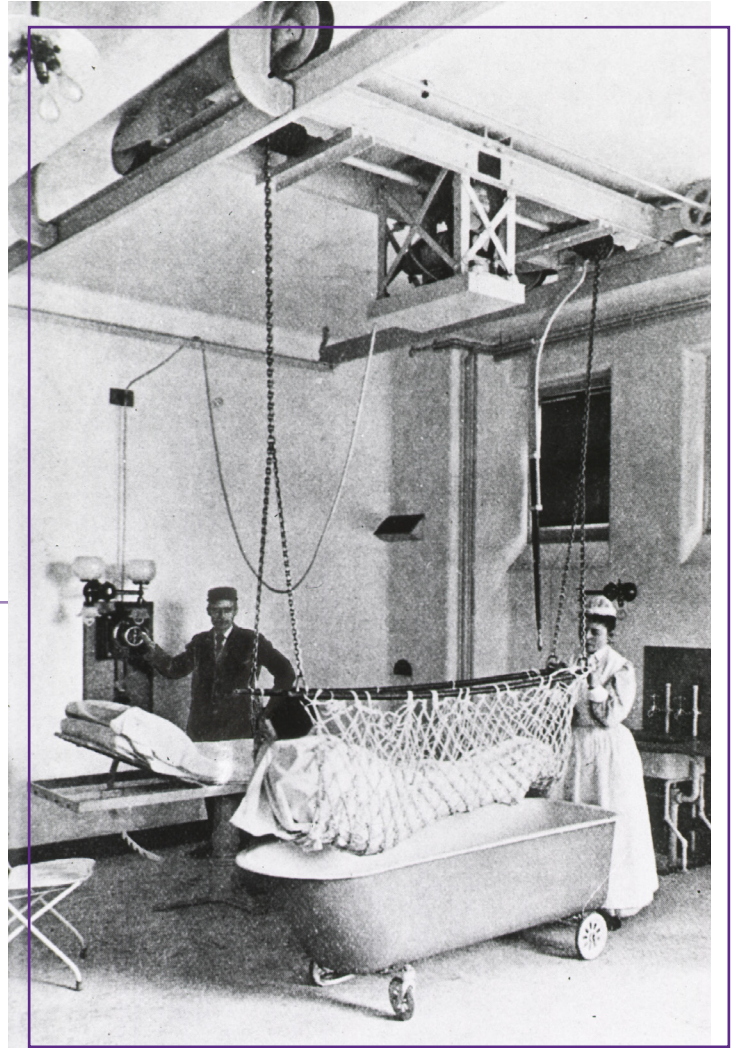
Fast forward 120 years, and repositioning struggles have changed little. Average patient weight is greater than ever, and healthcare workers suffer among the highest rates of work-related injuries. Hospitals are more aware of the risk—and often require “lift teams” or specialized equipment to hoist patients out of bed. Not only do the caregiver and patient still risk injury, the process itself can be uncomfortable, unsafe, undignified, and time-consuming.

The burden to staff means patients are not moved as frequently as they should be (some experts recommend 11 times daily). Lack of proper boosting can lead to expensive hospital-acquired pressure injuries (HAPIs) and a drop in patient satisfaction.

Hercules Patient Repositioner™ is a breakthrough in safe patient handling technology. With Hercules, one caregiver can safely boost a patient in bed within seconds—every time they enter the room.

Your patients and your back will thank you.

HERCULES™
PATIENT REPOSITIONER

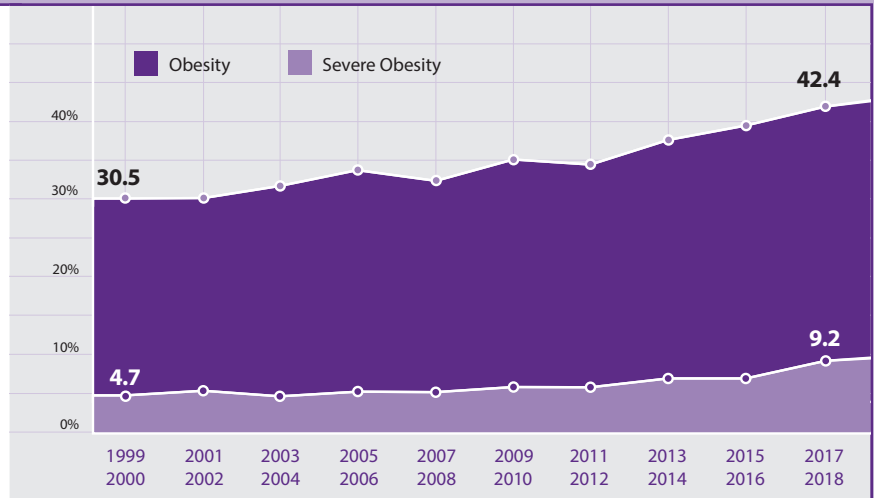


Nurse and orderly move a patient from bed to a bathtub with an electric lift. New York, 1898. Source: U.S. National Library of Medicine

Obesity Trends

From 1999 through 2018, the CDC noted a 39 percent increase in adult obesity rates and a 95 percent increase in severe obesity.

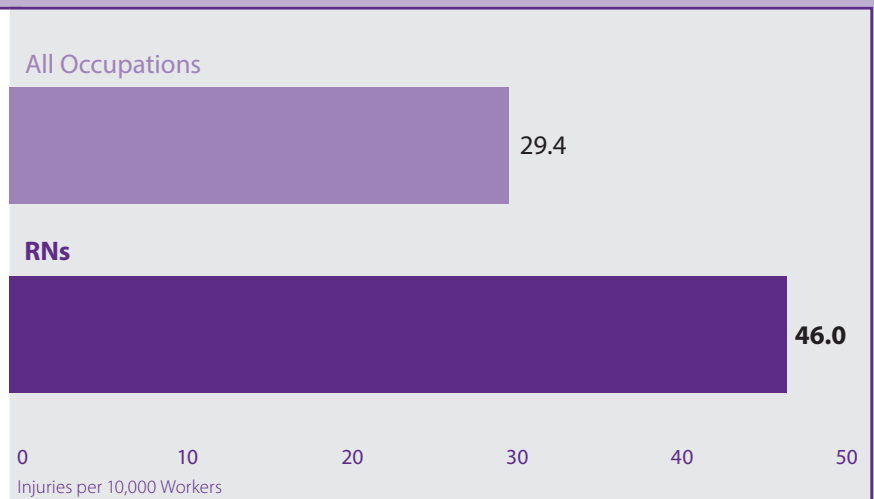
Source: CDC NCHS Data Brief No. 360, Feb. 2020



Work Injuries Among Nurses

Compared with all other occupations, RNs are 1.6x more likely to suffer work-related musculoskeletal injuries—often the result of overexertion in lifting or lowering.

Source: Dressner M and Kissinger S. Occupational injuries and illnesses among registered nurses. Monthly Labor Review. U.S. Bureau of Labor Statistics. Nov. 2018.



The Cost of HAPIs

In 2008, the Centers for Medicare and Medicaid Services (CMS) reduced payments for hospital-acquired pressure injuries (HAPIs), shifting this cost and responsibility to hospitals.

Source: Padula, Mishra, Makic, Sullivan. (2011) Improving the Quality of Pressure Ulcer Care with Prevention: a cost-effective analysis. Med Care 49(4): 385-392.



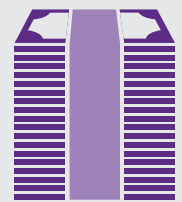
\$9-11 billion

annual estimate



\$70k-\$150k

for each Stage 3 or 4 PI



\$250k+

per settlement

Hercules: Reporting for Duty

Using Hercules Patient Repositioner™, one caregiver can safely boost a patient in seconds. The patient lies on a soft sheet pulled by an easy-to-use drive, moving the patient up in bed with the simple push of a button. This process preserves the patient's dignity—and protects the caregiver's back.

For surfaces, choose between foam and air. Our foam mattress uses a reactive pressure redistribution system to prevent injuries that often form when a patient remains static for too long. And our low air loss pulsation surface stimulates capillary blood flow to the skin, keeping the patient cool and dry. Both provide optimal comfort and healing.



As Easy as One, Two, Three



Hold down two buttons on drive unit



Sheet boosts patient in 10 seconds or less

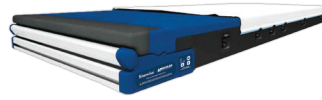


Release buttons; sheet adjusts to eliminate tension



Video: scan with your phone's camera

ADVANCE ARROWS PAST
EDGE OF MATTRESS BEFORE
PULLING PATIENT WEIGHT



**Hercules Patient
Repositioner™**



**Air Hercules Patient
Repositioner™**

Weight Capacity	750 lbs.	750 lbs.
Size(s)	39" or 48"W x 90"L	39" or 48"W x 90"L
Therapy Mode	Reactive Pressure Redistribution	Pulsation

Compatible Bariatric Bed Frames



Bari Rehab Platform 3™



Bari Rehab Platform 2™



Bari Classic™



Evolution® Expandable



Low Boy® Expandable

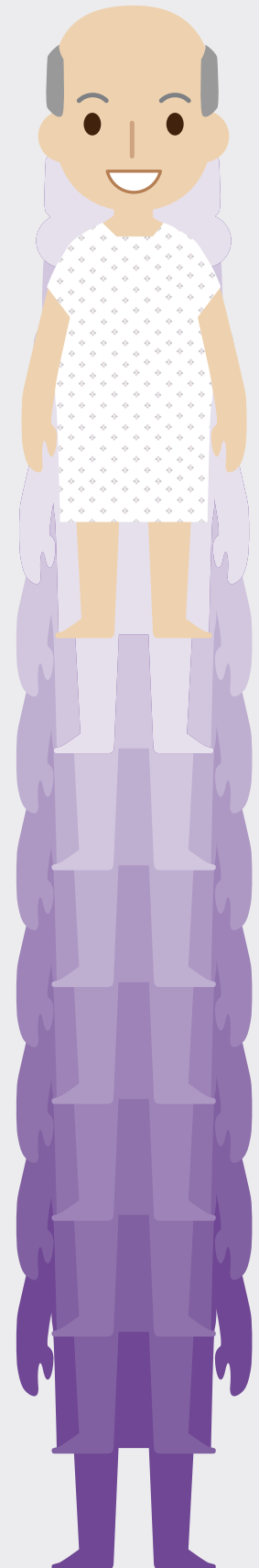
HERCULES™
PATIENT REPOSITIONER

Improves care for a variety of patients:

- ✓ Bariatric
- ✓ Bedridden
- ✓ Flaps/Grafts
- ✓ ICU
- ✓ OB/High-Risk
- ✓ Pain
- ✓ Pressure Injury
- ✓ Post-Op
- ✓ Sedated
- ✓ Spine
- ✓ Stroke
- ✓ Transplant
- ✓ Tube-Feeding
- ✓ Ventilator

The Sheet

A special 16-foot sheet boosts the patient 8-10 times before resetting. The disposable sheet is soft, lint-free, and breathable—a drier alternative to traditional cotton-blend sheets. Clips help the sheet slide along the support surface with the patient, reducing or eliminating friction and shear.



16-foot sheet
boosts 8-10 times!

Evidence-Based Outcomes

Over a 12-month period, three hospitals used Hercules™ and experienced:

Caregiver Injuries **▼ 67%**

Lost Work Days **▼ 75%**

Light Duty Assignments **▼ 75%**

Hospital-Acquired Pressure Injuries **▼ 86%**

Employee Satisfaction **▲ 21%**

Reid Health Case Study

SYSTEM WIDE HERCULES IMPLEMENTATION RESULTS IN SIGNIFICANT PATIENT AND CAREGIVER BENEFITS

Background

Reid Health, located in Richmond, VA, is a not-for-profit 223-bed regional referral medical center serving acute care patients and senior care. Reid is a nationally recognized leader in Quality of Care, including being named one of America's Best 500 Top Hospitals.

In October of 2016, Reid became one of the first hospitals in the country to offer a new and innovative technology that allows the care of patients and caregivers who will have confidence when it comes to repositioning patients with the Hercules Patient Repositioner™ (Hercules). Hercules allows a single caregiver to quickly and safely reposition a patient who is lying on their back with ease and the support of a sling. Reid's implementation of Hercules was a pilot program for the first 12 months, and the positive feedback that has been received has led to a full-scale implementation across the entire organization.

In 2016, the implementation of Hercules, the ongoing demonstration of the benefits of Hercules to Reid's patients and caregivers, and the actual reduction in patient and caregiver injuries were tracked. Reid was selected for the year's Best Patient Repositioner award by the 2016 Healthcare Innovation Awards. The award was presented to Reid's team at the annual Healthcare Innovation Awards ceremony in October 2016. These key metrics included caregiver injuries, hospital acquired pressure injury rates, and patient satisfaction. Secondary results and outcomes from the research are provided below.

Results

PATIENT SATISFACTION SCORES INCREASE

"The Hercules Bed patients and their staff has been wonderful," said Dr. Christopher Reid, President and CEO of Reid Health. "I believe that it has been a strong contributor to the increase we have seen in our three yearly patient satisfaction ratings."

"Our patients love the fact that now as three people don't have to hold them down, up or on their backs, and it's easier on staff and the patients. Our staff really liked Hercules. One of our doctors said at Reid, "This caregiver can often reposition a patient in less than a few minutes. Otherwise, it's taking 10-15 minutes to get a staff of four, keeping an eye on the patient and the caregiver, and making sure everything is done correctly."

Michael McHugh, Director of Patient Experience, said Reid is always seeking technologies that improve the experience for patients and caregivers. "Hercules is a great example of a technology that has improved the patient and caregiver experience. It's a great example of a technology that has improved the patient and caregiver experience. It's a great example of a technology that has improved the patient and caregiver experience."

"This is a product which meets multiple needs—caregiver efficiency, patient and staff safety—and allows great improvement in the patient experience when someone has to be in a hospital bed."

Key Contact:
 Chris Reid, President
 Reid Health

Christ Hospital Case Study

HERCULES DELIVERS CAREGIVER SAFETY BENEFITS AS WELL AS IMPROVEMENTS TO THE PATIENT EXPERIENCE, CAREGIVER SATISFACTION, CLINICAL OUTCOMES AND HELPS IN HOSPITAL'S MAGNET REDESIgnATION.

Background

The Magnet Recognition Program at Christ Hospital is a 555-bed urban Magnet facility in Cincinnati, OH, was receiving Magnet Recognition for the first time. Christ Hospital was a Magnet facility and was recognized for its commitment to patient and caregiver safety. Christ Hospital was a Magnet facility and was recognized for its commitment to patient and caregiver safety. Christ Hospital was a Magnet facility and was recognized for its commitment to patient and caregiver safety.

Action Plan

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Study

These patient and caregiver comments confirmed to the staff that the Magnet Recognition Program at Christ Hospital is a 555-bed urban Magnet facility in Cincinnati, OH, was receiving Magnet Recognition for the first time. Christ Hospital was a Magnet facility and was recognized for its commitment to patient and caregiver safety. Christ Hospital was a Magnet facility and was recognized for its commitment to patient and caregiver safety.

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Key Contact:
 Chris Reid, President
 Reid Health

Memorial Hospital Case Study

HERCULES DELIVERS CAREGIVER SAFETY BENEFITS AS WELL AS IMPROVEMENTS TO THE PATIENT EXPERIENCE, CAREGIVER SATISFACTION, CLINICAL OUTCOMES AND HELPS IN HOSPITAL'S MAGNET REDESIgnATION.

Background

Memorial Hospital is a 143-bed acute care facility in Memphis, TN, was receiving Magnet Recognition for the first time. Memorial Hospital was a Magnet facility and was recognized for its commitment to patient and caregiver safety. Memorial Hospital was a Magnet facility and was recognized for its commitment to patient and caregiver safety.

HERCULES 3 YEAR IMPACT IN 18-BED ICU

Metric	2014	2015	2016
Repositioning Injuries	12	4	0
Lost Work Days	12	4	0
Light Duty Assignments	12	4	0
Hospital Acquired Pressure Injuries	12	4	0
Patient Satisfaction	2.1	2.2	2.3
Caregiver Satisfaction	2.1	2.2	2.3

Source: Case studies conducted by The Morel Company and used with permission. Outcomes from Reid Health (223-bed regional facility), The Christ Hospital (555-bed urban Magnet facility), and Memorial Hospital and Health Care Center (143-bed acute care facility).

Win-Win-Win: Hercules Helps...

Safe Patient Handling	One caregiver can effortlessly reposition patient without lifting, pulling, or tugging.
HAPI Prevention	Reposition patient every time caregiver enters the room; keep patient in a low-pressure, comfortable position.
Lift Team Reduction	No waiting for a lift team; hospital saves resources for other patients in need.
Infection Control/Prevention	Reduce patient room traffic, keeping unnecessary staff away from patients with contact precautions; reduction in PPE use.
Magnet® Status	Demonstrates commitment to nursing quality, improved outcomes, patient experience, and innovative technology.
Patient Satisfaction	Improves patient comfort and preserves dignity. No sling or lifting device needed.

11x

Times a bariatric patient needs boosting in bed each day*

Before Hercules



4+

Number of caregivers required to manually boost patient**



10 min.

Average time to muster a lift team*

After Hercules



1

Number of caregivers required to boost patient with Hercules



10 sec.

Average time to boost patient with Hercules*

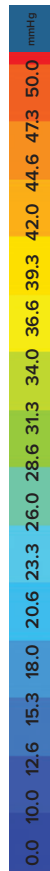
A Value-Based Investment

Hercules™ saves your most expensive resource: staff time.

**Based on data gathered during customer trials.
**NIOSH recommends a max weight of 35 lbs. per caregiver*

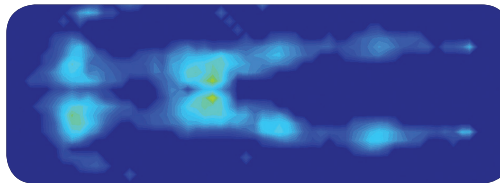
Boosting Helps Prevent Pressure Injuries

When a patient migrates down in bed, their sacrum and heels are exposed to greater pressure interface—causing discomfort and increasing the likelihood of pressure injuries. Frequent boosting helps keep patients in a low-pressure, comfortable position.



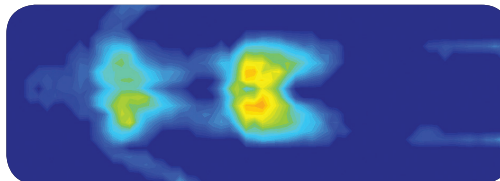
Low-Pressure, Comfortable Position

Up in Bed

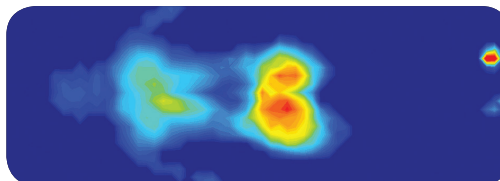


High-Pressure, At-Risk Position

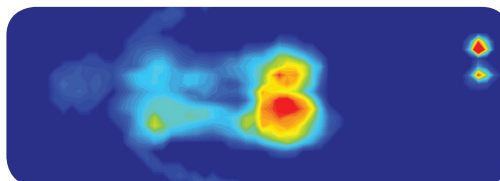
6" Down



9" Down



12" Down



Note: Pressure Mapping shows male, 210 lbs., bed at 30° angle.

Nurses Say it Best

"At the beginning of your day, if you have a bariatric patient you're saying to yourself, 'I hope they're on a Hercules system, because it's going to help me all day long.'"

Chastity
Registered Nurse

"Our patients love the fact that two or three people don't have to help move them up in their beds."

LuAnne
Dir. of Quality

"The Hercules system is convenient because it's always under the patient."

Michael
Registered Nurse

"The success of Hercules was a significant component in [our hospital's] Magnet submission and eventual recognition in 2015."

Julie
Chief Nursing Officer

"I expected the result to be nurses experiencing fewer back injuries, but I didn't anticipate that they would virtually disappear."

Ann
Dir. of Critical Care

Learn More

800-814-9389

sizewise.com/hercworks

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