

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.

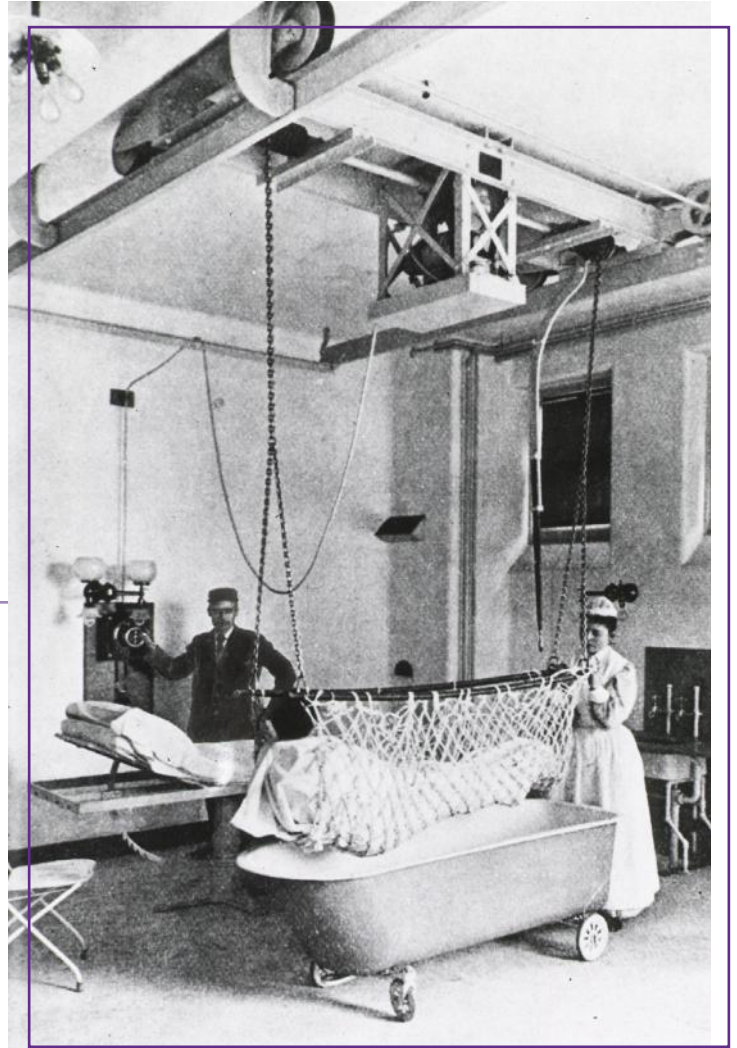
Fast forward 120 years, and repositioning struggles have changed little. Average patient weight is greater than ever, and healthcare workers suffer among the highest rates of work-related injuries. Hospitals are more aware of the risk—and often require “lift teams” or specialized equipment to hoist patients 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 (HAIs) 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

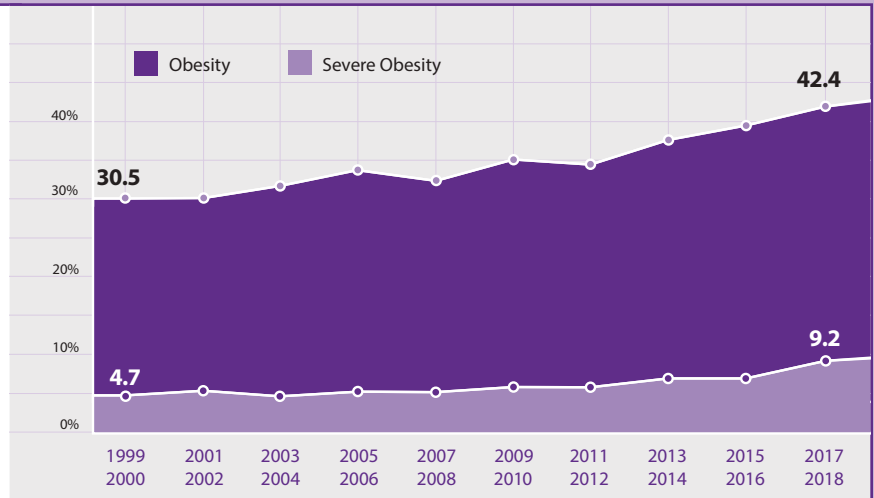


Nurse and orderly move a patient from bed to a bathtub with an electric lift. New York, 1898. Source: U.S. National Library of Medicine

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.

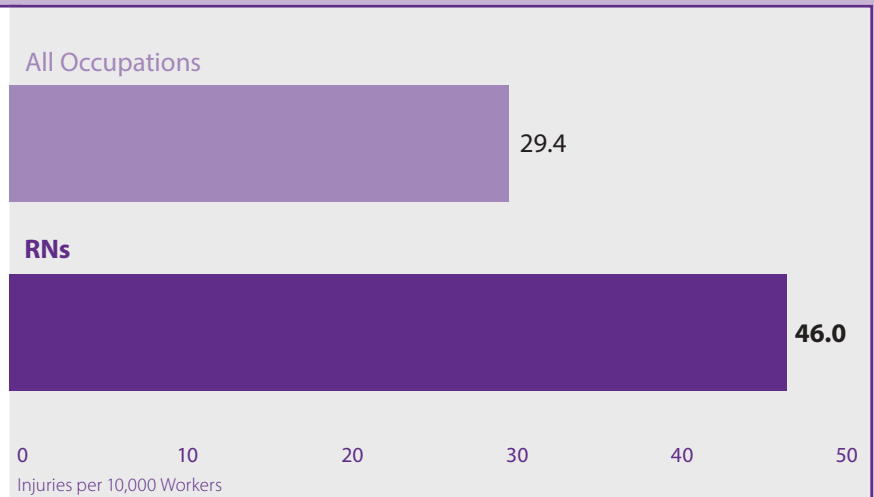
Source: CDC NCHS Data Brief No. 360, Feb. 2020



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



16-foot sheet
boosts 8-10 times!

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.

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 both rural and urban areas. Reid is a nationally recognized leader in Quality of Care, including being named one of America's Best 100 Hospitals.

Result
PATIENT SATISFACTION SCORES INCREASE
"The Hercules Bed patients and team staff has been wonderful." said the Managing Bed President/Chief of Bed/Chief Bed Unit Officer, Greg Smith, Bed Nursing Practice and Support Practice Manager. "I believe that it has been a strong contributor to the increase we have seen in our three yearly patient satisfaction scores."
"Our patients love the fact that we as three people don't have to hold them up or lift them, and I have received staff feedback and comments that they really love Hercules. One of our quality directors at Reid, "Our caregivers can often assist patients safely in just a few moments. Otherwise, not being "two people" means we're not at our best, keeping an eye on our patients for the patient and caregiver team."

Study
Michael McGee, Director of Patient Experience, said Reid is always seeking techniques that improve the experience for patients and caregivers. "We know that a hospitality is a staff member's responsibility to our patients. We know that a hospitality is a staff member's responsibility to our patients. We know that a hospitality is a staff member's responsibility to our patients. We know that a hospitality is a staff member's responsibility to our patients."

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

Action Plan
The success of Hercules was a significant component in The Christ Hospital's Magnet submission and overall recognition in 2015.

Study
These patient and caregiver comments confirmed to Ms. Doyle that the Hercules Bed is a significant component in the hospital's Magnet submission and overall recognition in 2015.

CAREGIVER INJURIES
2014-2015
2015-2016
2016-2017
2017-2018
2018-2019
2019-2020
2020-2021
2021-2022
2022-2023
2023-2024
2024-2025

Memorial Hospital Case Study
FIRST HERCULES CUSTOMER, THROUGH REPEAT PURCHASES IN SEVERAL AREAS OF THE HOSPITAL, HAS REALIZED SIGNIFICANT BENEFITS IN CAREGIVER SAFETY, HAP REDUCTION, CAREGIVER EFFICIENCY, AND BOTH PATIENT AND CAREGIVER SATISFACTION.

Background
Having one of the first Hercules Beds in the United States, Memorial Hospital is a 100-bed hospital in a rural location, but has grown to become a regional referral center. Memorial Hospital is a 100-bed hospital in a rural location, but has grown to become a regional referral center. Memorial Hospital is a 100-bed hospital in a rural location, but has grown to become a regional referral center.

HERCULES 3 YEAR IMPACT IN 18-BED ICU

Metric	2018	2019	2020	2021	2022	2023	2024	2025
Repeat Caregiver Injuries	10	8	6	4	3	2	1	0
Lost Work Days	15	12	10	8	6	4	3	2
Light Duty Assignments	20	18	15	12	10	8	6	4
Repeat Caregiver Injuries	10	8	6	4	3	2	1	0
Lost Work Days	15	12	10	8	6	4	3	2
Light Duty Assignments	20	18	15	12	10	8	6	4

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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

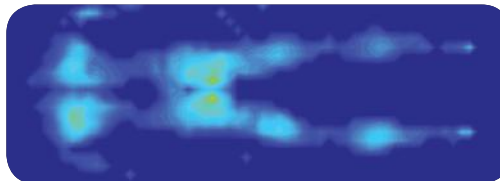
Boosting Helps Prevent Pressure Injuries

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.



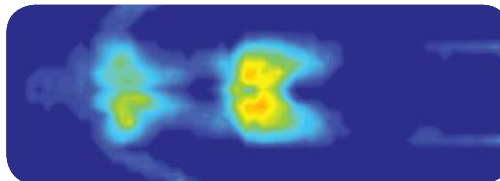
Low-Pressure, Comfortable Position

Up in Bed

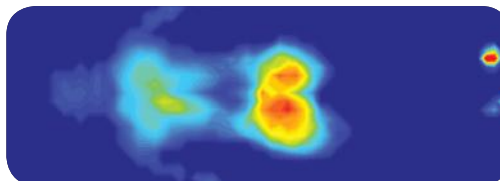


High-Pressure, At-Risk Position

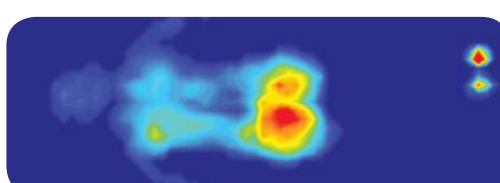
6" Down



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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