DeRoyal®

Improving Care. Improving Business.®

PRUventor™

Heel Off-Loading Device

Clinically Proven to Help Prevent Heel Pressure Injuries

HEEL PRESSURE **RELIEF** MADE **SIMPLE**

Silbac™ Antimicrobial Technology

Silbac™ antimicrobial technology has the ability to reduce elevated levels of bacteria without disrupting levels of normal skin bacterial flora. This technology maintains its antimicrobial properties throughout the life of the product, even after disinfecting.

Lower Leg Securement Straps: Adjustable and customizable

Bi-lateral Straps: Keeps the foot in a neutral position

Open Heel Design: Helps prevent pressure injury

SCD/ICD Exits: Outlined by blue stitching

Anti-Rotation Wedge: Helps prevent foot rotation

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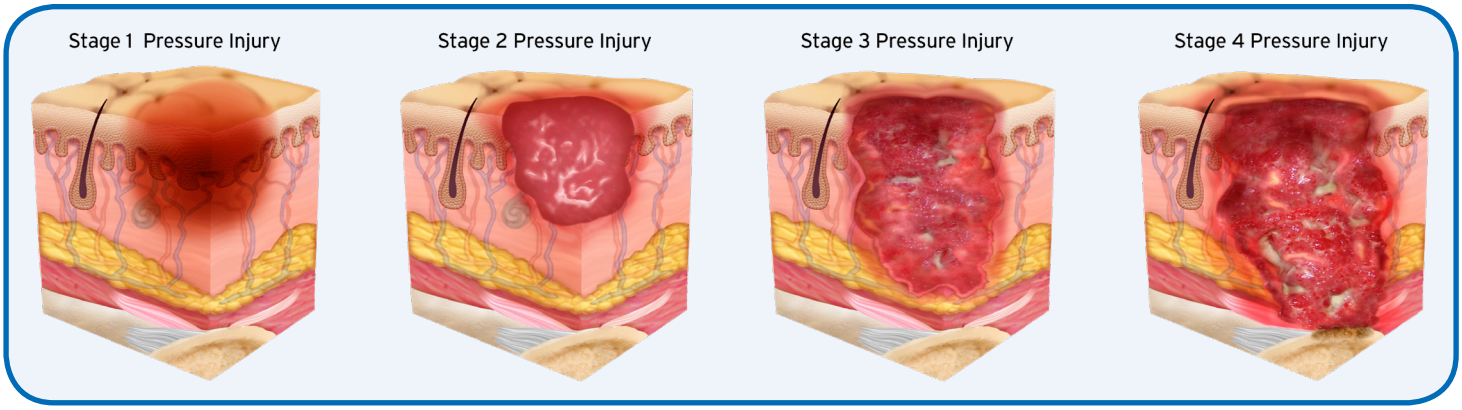
"Pressure ulcer development in hospitalized patients is considered by CMS a never event, however, according to the literature, (it) occurs in 33% of patients outside of the ICU and up to 44% of patients in the ICU." [1]

- Open Journal of Nursing, 2015, 5, 909-916

Importance of Pressure Injury Prevention:

"The treatment for pressure ulcers is lengthy and causes a significant financial burden on the healthcare system. In the United States, an estimated $11 billion is spent on pressure ulcers yearly, with $500 to $70,000 being spent on a single wound." [2]

The heel is the second most common body site for developing a pressure injury. Therefore, it is pertinent that the clinician accurately identifies the patient at risk and ensures that the patient's heels are pressure free.[3]



Used with permission of the National Pressure Ulcer Advisory Panel June 2018.

Providing a Solution:

The latest guidelines from the Negative Pressure Ulcer Advisory Panel (NPUAP) recommends the use of "heel suspension devices that elevate and offload the heel completely in such a way as to distribute the weight of the leg along the calf without placing pressure on the achilles tendon."[4]

The DeRoyal® PRUventor™ Heel Off-Loading Device ensures that the heel is suspended and free of pressure, providing benefits to the patient and clinician.

Benefits to **Patient**:

- Open design and minimal strap closures promote breathability
- Fluid-like sensation absorbs pressure away from bony prominences
- Soft and cool fabric provides comfort with prolonged use

Benefits to **Clinician**:

- Soft, elastic straps help keep the foot in a neutral position while providing a comfortable and secure fit
- Off-loading of heel is easily visable with the open heel design
- Can be cleaned and disinfected without altering the benefits of Silbac™ Antimicrobial technology

A Summary of

Pressure Ulcer Prevention:

Effectiveness of Heel Off-Loading Methodologies[1]

Study Objective:

To investigate the efficacy of six heel off-loading methods commonly used in clinical settings to decrease contact pressure via pressure mapping.

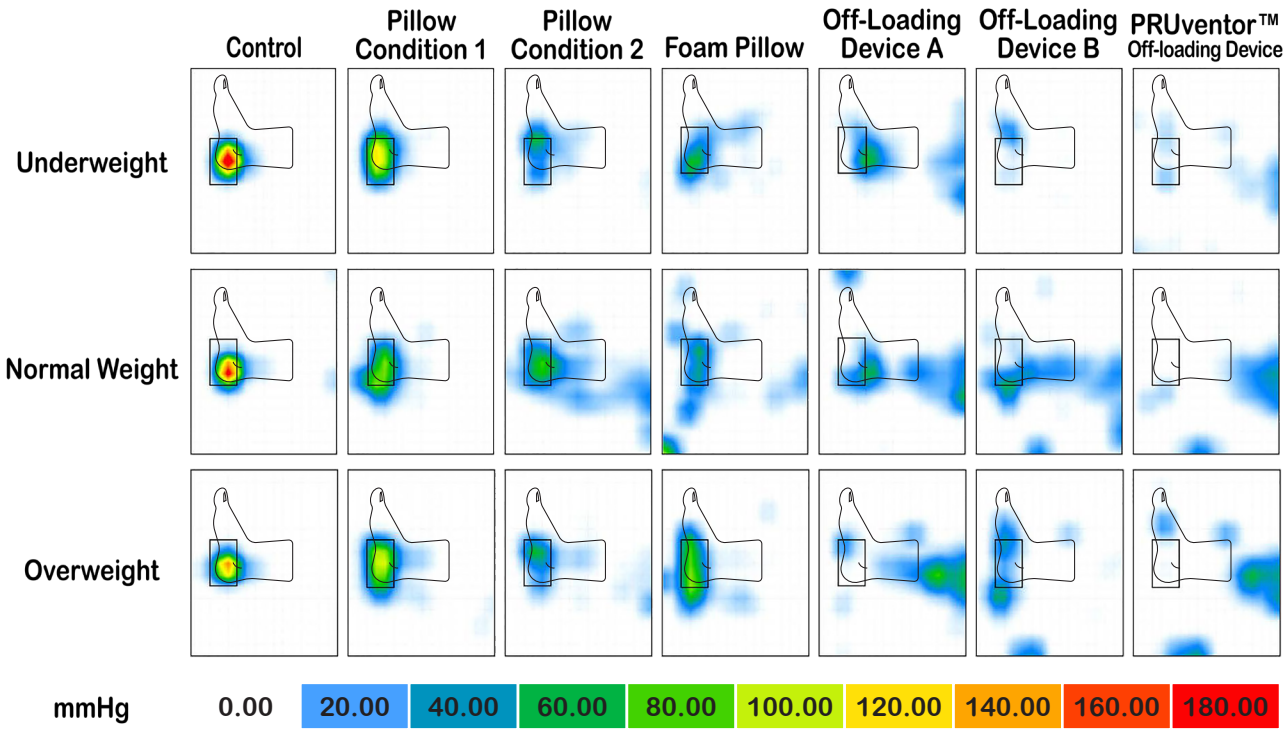
Methods:

- Heel contact pressures were evaluated in underweight, normal weight, and overweight simulations
- Pressure mapping was measured between foot and boot vs. boot and surface (table/bed)
- Bench-side study

Outcomes:

- **PRU**ventor™ Heel Off-Loading Device exhibited significantly lower average pressure values than other off-loading strategies used
- **PRU**ventor™ Heel Off-Loading Device efficiently suspends the heel in the boot and from the surface

Comparison of Pressure Mapping of Heel Off-Loading Techniques[1]



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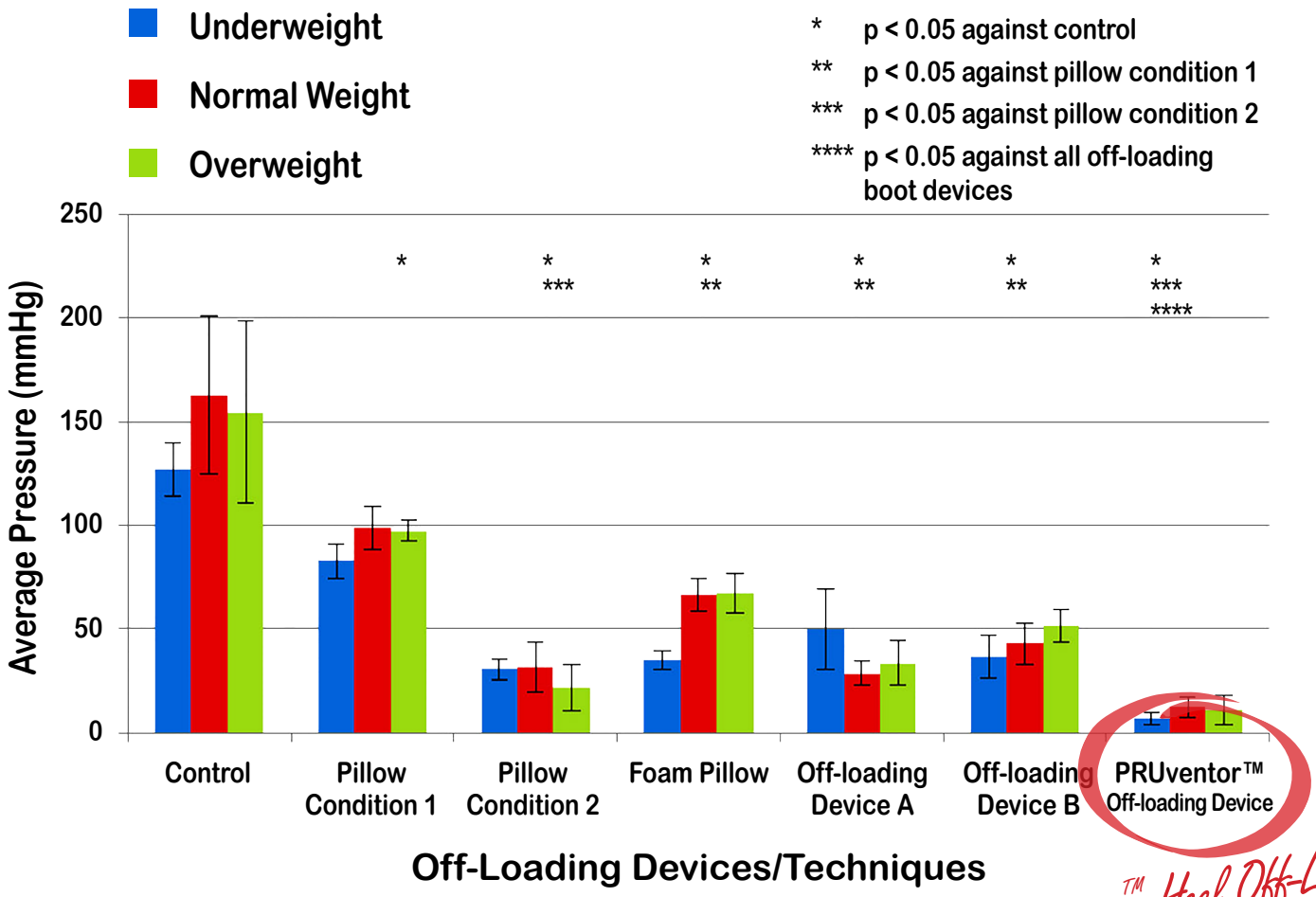
"…statistical analysis of the measured heel contact forces demonstrates that all devices reduce heel pressure, *with Off-loading Device C (PRUventor™ boot) providing the greatest degree of off-loading pressure relief compared to other conditions."*[1]

- Open Journal of Nursing, 2015, 5, 909-916

A Comparison of Average Heel Pressure and Off-Loading Techniques[1]



The data averages for each off-loading condition is separated by the loading amount. Standard error bars are displayed for each data set. Averages cover a twelve frame mask of heel forces averaged together over a ten second interval. Asterisks denote data significance as according to paired t-tests with a 5% significance level.

The PRUventor™ Heel Off-Loading device provides the greatest degree of off-loading pressure relief.

CITATIONS

1. Open Journal of Nursing, 2015, 5, 909-916: C. Griffin, C. , Dean, T. , M. Cayce, J. and Modrcin, M. (2015) Pressure Ulcer Prevention: Effectiveness of Heel Off-Loading Methodologies. Open Journal of Nursing, 5, 909-916. doi: 10.4236/ojn.2015.510096.
2. Boyko, T. V., Longaker, M. T., & Yang, G. P. (2018, February 01). Review of the Current Management of Pressure Ulcers. Retrieved May 16, 2018, from https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5792240/
3. Fowler, E., Scott-Williams, S., & McGuire, J. (2008, October). Practice Recommendations for Preventing Heel Pressure Ulcers. Retrieved May 16, 2018, from https://www.ncbi.nlm.nih.gov/pubmed/18927483.
4. National Pressure Ulcer Advisory Panel, European Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers: Quick Reference Guide. Emily Haesler (Ed.). Cambridge Media: Osborne Park, Australia; 2014.

Heel Off-Loading Device

PRUventor™ Heel Off-Loading Device

Product Offering

Description	Length	Qty	Product #
Universal Short	9”	1 Each	M70-100S
Universal Long	13”	1 Each	M70-100L
Universal Long	13”	6 Each	M70-100LB
Universal X-Long	15”	1 Each	M70-100B
Long without Anti-Rotation Wedge	13”	1 Each	M70-100NW

Accessories

Description	Qty	Product #
Foam Wedge	12/Case	M70-100FW
Lower Leg Securement Straps	12 Pair/Case	M70-100ST

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