

A photograph of an elderly woman with short grey hair, smiling and looking upwards. She is lying in a hospital bed, wearing a light blue hospital gown with a white polka-dot pattern. Her hands are being gently held and supported by a caregiver's hands. The bed's control panel is visible on the left side of the frame. The overall scene conveys a sense of care and comfort.

**BECAUSE  
LIFE-ALTERING  
MOMENTS DESERVE  
ELEVATED CARE**



**Hillrom™**

**Centrella® Smart+ Bed**

# LIFE-ALTERING MOMENTS HAPPEN HERE.

This is where care begins.  
Where healing happens.

All too often, costly complications can happen when life-altering health events occur. To manage these events, you need a comprehensive solution.

## IMPROVING YOUR PATIENTS' SAFETY AND SATISFACTION WAS THE INSPIRATION FOR THE CENTRELLA® SMART+ BED.

It's purposefully designed to best address your primary concerns:

### PATIENT SAFETY

- Fall prevention
- Pressure injury prevention
- Continuous heart rate and respiratory rate monitoring
- Real-time incontinence detection

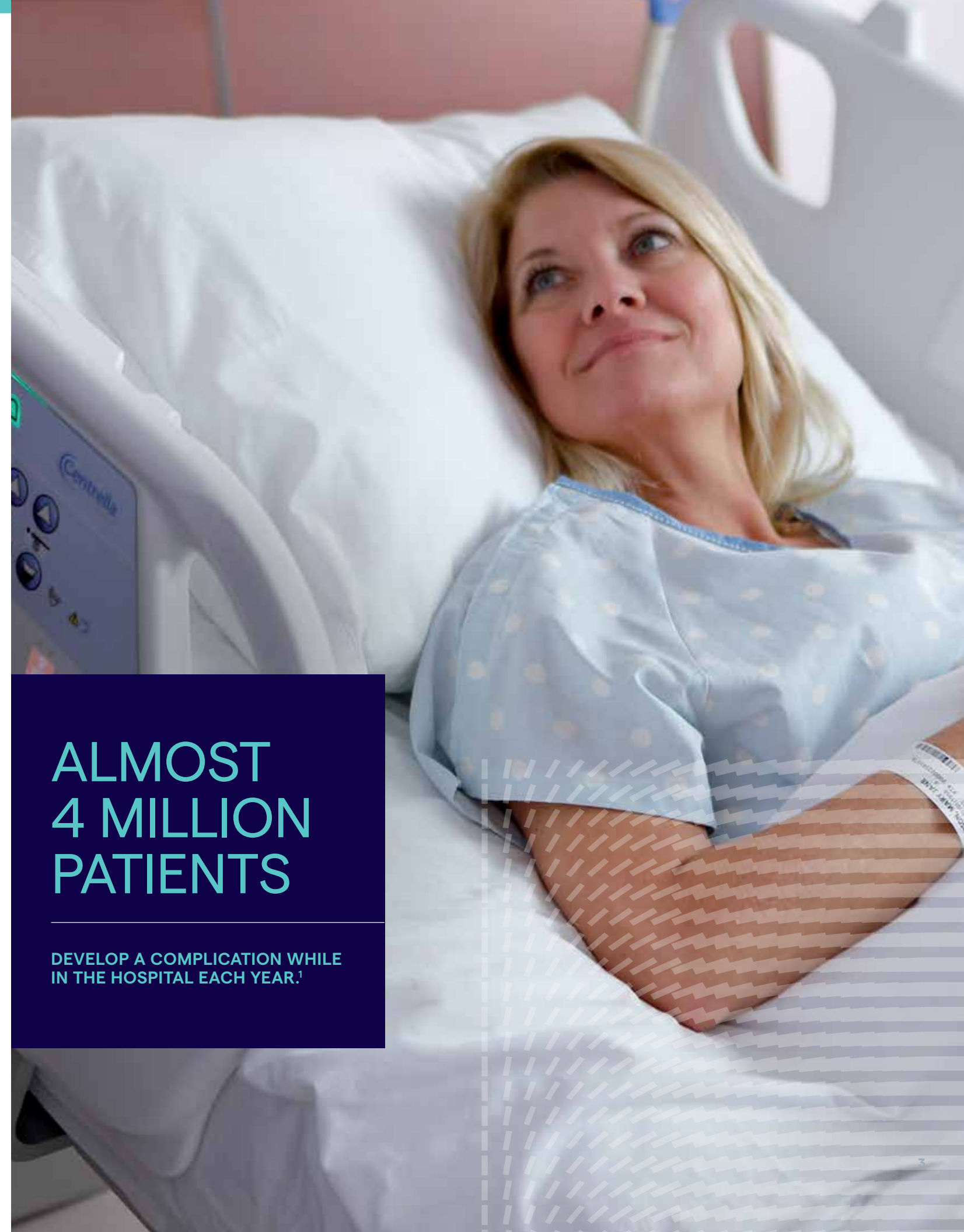
### PATIENT SATISFACTION

- Increased comfort
- Enhanced patient experience
- Improved communication

HELP MEET THE CHANGING NEEDS OF HEALTHCARE  
FACILITIES WITH THE CENTRELLA® SMART+ BED.

ALMOST  
4 MILLION  
PATIENTS

DEVELOP A COMPLICATION WHILE  
IN THE HOSPITAL EACH YEAR.<sup>1</sup>





# The extension of your care team.

We listened carefully to hundreds of caregivers when developing the Centrella® Smart+ bed. That's why it's designed to simplify the way caregivers work and help keep patients safe.



SEE THE CENTRELLA® SMART+ BED IN ACTION  
AT [CENTRELLABED.COM](https://centrellabed.com).

## DESIGNED TO HELP IMPROVE PATIENT SAFETY

- **SMART BED TECHNOLOGY**  
leverages over 35 data points on the bed to enhance patient care.
  - **VERBAL SAFETY PROMPTS**  
easily understandable verbal prompts that caution caregivers and patients:  
+ "Brake not set."  
+ "Please, don't get up."
  - **OBSTACLE DETECT® SYSTEM**  
Alerts caregivers if the system senses an object while bed is lowering.
- 
- 1** **SAFEVIEW®+ SYSTEM**  
helps caregivers monitor bed safety status at a glance with easy-to-read visual projections.
  - 2** **ENHANCED 3-MODE BED EXIT**  
includes silence, auto reset, and visual/audible safety prompts.
  - 3** **ILLUMIGUIDE™ SIDERAIL HANDGRIP**  
enhances visibility to safely guide patients back to bed.
  - 4** **ADVANCED SLIDEGUARD® FEATURE**  
reduces patient migration when the head of the bed is raised by expanding 6".
  - 5** **INTELLIDRIVE® POWERED TRANSPORT**  
supports safe and easy transfer of patients.
  - 6** **MOTION-ACTIVATED NIGHTLIGHT**  
illuminates the path to guide patients to and from the bed.
  - 7** **FEATURE LABELING**  
colored labels help caregivers easily identify key features on the bed.

# PREVENT THE 'NEVER EVENT' THAT HAPPENS DAILY

ANNUALLY, IN THE AVERAGE  
100-BED FACILITY FALLS ARE  
PREVALENT AND COSTLY EVENTS.

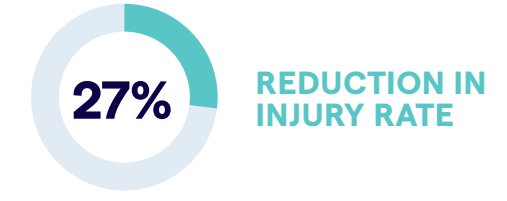
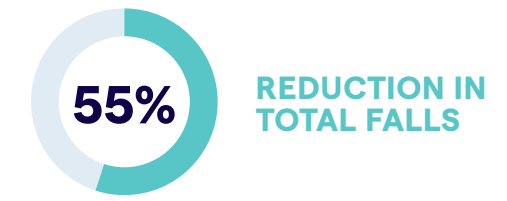
**179** PATIENTS  
WILL FALL<sup>2</sup>

**59** PATIENTS WILL  
BE INJURED.<sup>2</sup>

**RESULT:**  
Your facility may  
bear costs of  
\$1.3M or more  
per year.<sup>3</sup>

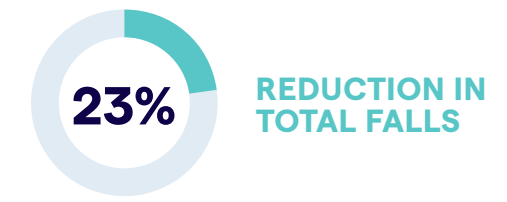
The Centrella® Smart+ bed may help  
reduce falls and falls with injury.

HILLROM™ SAFEVIEW® SYSTEM AND FALL  
PREVENTION PROGRAM HELPED RESULT IN:



according to a study conducted at West Branch Regional  
Medical Center.<sup>4</sup>

HILLROM™ 3-MODE BED EXIT ALARM  
AND FALL PREVENTION PROGRAM HELPED  
RESULT IN:



over a four-year period according to a study conducted  
at San Francisco General Hospital.<sup>5</sup>

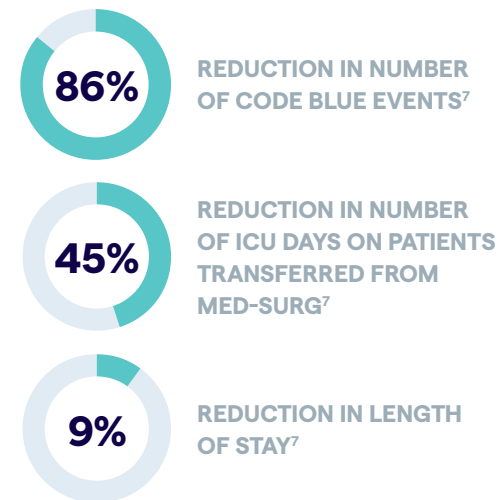
TOGETHER,  
WE CAN  
REDUCE  
PATIENT  
FALLS ONE  
CENTRELLA®  
SMART+ BED  
AT A TIME.

**ELEVATE CARE: OPTIMIZE PATIENT SAFETY  
WITH SAFEVIEW®+ SYSTEM AND 3-MODE BED EXIT**

# ENABLE EARLIER DETECTION OF PATIENT DETERIORATION

Help caregivers identify, and based on a facility's protocol, intervene at the earliest signs of patient deterioration, with contact-free, continuous monitoring on the Centrella® Smart+ bed.

CONTACT-FREE, CONTINUOUS MONITORING IN AN INPATIENT 33-BED MED-SURG UNIT LED TO:



# PROVIDE REAL-TIME INCONTINENCE CARE

Elevate the patient experience and enhance safety with WatchCare™ Incontinence Management System.



## PROTECT PATIENTS' SKIN

47% of hospital patients are incontinent.<sup>8</sup>

- Provides timely alerts to help reduce patient exposure to moisture
- May minimize the threat of painful IAD and full-thickness pressure injuries

## IMPROVE PATIENT EXPERIENCE

Incontinence can negatively impact a patient's physical and mental health, and quality of life.

- Provide peace of mind for patients and families
- Monitor resting patients without awkward incontinence checks
- Eliminate embarrassment of self-reporting and help promote dignity

## OPTIMIZE CAREGIVER EFFECTIVENESS

Skin can be compromised in as little as 15 minutes after exposure to moisture, despite the use of a premium underpad.<sup>9</sup>

- Responsiveness to incontinent events
- Prioritized patient care

IT HAS BEEN SUGGESTED THAT DURATION OF EXPOSURE TO MOISTURE IS THE MAJOR CAUSATIVE FACTOR ASSOCIATED WITH THE DEVELOPMENT OF IAD.<sup>9</sup>

In a 36-bed med-surg unit, the time that skin was exposed to moisture was reduced from:<sup>10</sup>

**2+** → **19**  
HOURS MINUTES



HR/RR Monitoring  
+ Trend Indication



Early Recognition of  
Patient Deterioration



Earlier  
Intervention



Improved Patient  
Safety Outcomes



Reduced Financial  
Burden



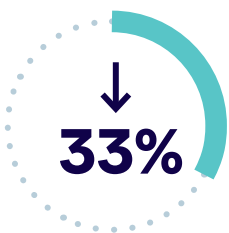
# REDUCE THE PREVALENCE OF PRESSURE INJURIES AND THE OVERALL COST OF CARE



Annually, in the average 100-bed facility pressure injuries are prevalent and costly.

**170** PATIENTS WILL ACQUIRE A PRESSURE INJURY

Result: Your facility could bear costs of \$1.8M or more per year.<sup>11,12,13</sup>



Using the IPUP™ Survey + Hillrom™ and WOCN® Surface Algorithm + Hillrom™ Surface Technologies helped one facility achieve a 33% reduction in pressure injury prevalence<sup>14</sup>

## Centrella® Smart+ Bed Therapeutic Surfaces



In partnership with NPIAP, we developed standardized testing of surface performance to bring you innovative support surfaces that help manage pressure, shear and moisture to deliver optimal wound prevention and healing.

### Centrella® max Surface

- 4X↑** Focused Advanced Microclimate® Technology
  - Removes up to 4x more heat and 7x more moisture.<sup>15</sup>
- 7X↑**
- 13%↓** Weight-Based Pressure Redistribution
  - Up to 13% less peak sacral pressure.<sup>15</sup>
- 77%↑** Enhanced Turn Assist
  - More effective turn in 77% less time.<sup>17</sup>



### Centrella® pro+ Surface

- 2.5X↑** Focused Advanced Microclimate® Technology
  - Removes up to 2.5x more heat and 4x more moisture.<sup>3</sup>
- 4X↑**
- 8%↓** Targeted and Customized Pressure Redistribution
  - Up to 8% less peak sacral pressure.<sup>3</sup>



### Centrella® pro Surface

- ↓21%** Targeted Pressure Redistribution
  - Up to 21% less peak sacral pressure.<sup>15</sup>
- 5X↑** Best-In-Class Comfort
  - Rated 5X more comfortable.<sup>16</sup>

Through our partnership with NPIAP, we are pioneers in surfaces that help accelerate patient recovery.

# FREE CARE TEAMS TO IMPROVE PATIENT OUTCOMES

Get back to the bedside and keep patients safe by connecting smart beds, hospital systems and smart applications.

  
ELECTRONIC MEDICAL  
RECORDS

  
NURSE CALL  
AND SMARTPHONES

  
SMART APPLICATIONS



## SMART BED DATA HELPS CARE TEAMS TAKE ACTION

All caregivers want the peace of mind of knowing their patients are safe, even when they aren't at the bedside.

By receiving alerts in real-time—from patient deterioration to patient falls and more—caregivers know when patients are at risk and can respond quickly to keep them safe.



Alert  
Med-Surg 16  
Bed Exit  
12:16 PM

Change in patient condition triggers critical information and alerts →



Dome Light



Smartphone



Nurse Station



Unit-Level Dashboard

Wherever you are →



Bringing you back to the bedside.

# CAREGIVER-FOCUSED TECHNOLOGY

QUICK ACCESS TO EASY-TO-USE CONTROLS WITH GRAPHICAL CAREGIVER INTERFACE (GCI)<sup>®</sup> TOUCHSCREEN WITH FLIP-UP PANEL.



## Monitor patient safety status from a distance with SafeView<sup>®</sup>+ System

Centrella<sup>®</sup> Smart+ beds equipped with SafeView<sup>®</sup>+ System display the safety status for fall risk and non-fall risk patients by projecting icons onto the floor to notify caregivers when:

- Siderails are not set to facility protocol.
- Bed is not in the lowest position.
- Bed exit alert is on or off.
- Contact-free, continuous monitoring is on or alerting. (icon does not project on floor)
- Bed is monitoring for incontinence events.

SEE THE CENTRELLA<sup>®</sup> SMART+ BED IN ACTION AT [CENTRELLABED.COM](http://CENTRELLABED.COM).



# BED TECHNOLOGY DESIGNED WITH THE PATIENT EXPERIENCE IN MIND



**1 ADVANCED PATIENT PENDANT**  
Provides personalized patient comfort settings, entertainment controls, plus a live nurse call button with visual confirmation of placed calls.



**2 USB PORT**  
Conveniently charges personal devices.



**YOURBED.HILL-ROM.COM**  
Informs patients about use and benefit of the bed to help optimize their experience.



**VERBAL SAFETY PROMPTS**  
Easily understandable verbal prompts that caution patients:  
■ "Care team has been called."



**EXPERIENCE POD™ DEVICE**

Control panel with reading light, patient pendant, personal device holder, and USB port.

**3**

**PATIENT BED CONTROL**  
provides easily accessible patient adjustment of bed.

**4**

**DEVICE STORAGE AREA**  
holds patient's personal items, including devices and reading material.

**5**

**AUTO CONTOUR™ FEATURE**  
keeps the patient comfortable and secure by elevating the knees when the head is elevated.

**6**

**QUIET POWERED AIR SURFACE**  
provides a relaxing and restful sleeping experience.

**7**

**STANDARD 36" AND COMFORT EDITION 40" WIDTHS**  
accommodates more patient sizes for comfort and additional turning area.

**"The bed is very comfortable. Easy to use, has awesome features. I like how you can adjust the firmness on your own, and that the remote for the bed controls everything."**

*Comment from a patient about the Centrella® Smart+ bed at a 350-bed facility in Michigan.*

**SEE THE CENTRELLA® SMART+ BED IN ACTION  
AT CENTRELLABED.COM.**

## INNOVATION THAT EVOLVES WITH YOU.

The Centrella® Smart+ bed is not just a bed. It's a future-proofed investment that evolves with your needs through a roadmap of innovations, only offered by the Centrella platform.

AS YOUR NEEDS EVOLVE, SO DOES THE CENTRELLA® SMART+ BED.



Data and alert connectivity



Falls protocol automation



Contact-free, continuous monitoring



Incontinence detection



**COMING SOON**

Real-time analytics and algorithms

# THE BED IS JUST THE BEGINNING



ADVANCING CONNECTED CARE THROUGH OUR MED-SURG SOLUTIONS.

Hillrom believes the complete Med-Surg environment helps accelerate patient recovery by contributing to patient safety, patient satisfaction and managing costs in a healthcare facility.



Smart Beds & Surfaces



Safe Patient Handling & Mobility



Patient Monitoring



Care Communications



SmartCare™ Services



## References

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- <sup>3</sup> Hoffman, et al. Claims-based Identification Methods and the Cost of Fall-related Injuries Among US Older Adults. Medical Care. Volume 54, Number 7, July 2016.
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- <sup>7</sup> Brown, et al. Continuous Monitoring in an Inpatient Medical-Surgical Unit: A Controlled Clinical Trial, AJM Mar. 2014 (127:3)
- <sup>8</sup> Gray M and Giuliano K. J Wound Ostomy Continence Nurs. 2017;00(0):1-5.
- <sup>9</sup> Phipps L, Gray M, Call E. Time of Onset to Changes in Skin Conditions During Exposure to Synthetic Urine. JWOCN 2019;46(4):315-320.
- <sup>10</sup> Abbott C, et al. Incontinence Management System Use Significantly Reduces Incontinence Exposure Time. 2019 American College of Wound Healing and Tissue Repair Conference.
- <sup>11</sup> 2013 International Pressure Ulcer Prevalence™ survey data. Pressure Ulcer Prevalence Reductions Seen from the International Pressure Ulcer Prevalence Survey.
- <sup>12</sup> Jackson, et al. "Pressure Ulcer Prevention in High Risk Postoperative Cardiovascular Patients." Crit Care Nurse. 2011;31:44-53.
- <sup>13</sup> 2014 AHA Hospital Statistics.
- <sup>14</sup> Hill-Rom Case Study 193131. Data on file.
- <sup>15</sup> Lachenbruch C. 2017. Data on file.
- <sup>16</sup> Smith K. 2017. Data on file.
- <sup>17</sup> Wiggerman N. 2017. Data on file.
- <sup>18</sup> Hillrom Internal Test Results. Data on file.



**Hillrom™**

## ABOUT HILLROM

Hillrom is a global medical technology leader whose 10,000 employees have a single purpose: enhancing outcomes for patients and their caregivers by advancing connected care. Around the world, our innovations touch over 7 million patients each day. They help enable earlier diagnosis and treatment, optimize surgical efficiency and accelerate patient recovery while simplifying clinical communication and shifting care closer to home. We make these outcomes possible through connected smart beds, patient lifts, patient assessment and monitoring technologies, caregiver collaboration tools, respiratory care devices, advanced operating room equipment and more, delivering actionable, real-time insights at the point of care. Learn more at [hillrom.com](http://hillrom.com).

**For more information, please contact your local distributor or Hillrom sales representative at 1-800-535-6663.**

**hillrom.com**

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