



# CENTRELLA<sup>®</sup> SMART+ BED

Because life-altering moments  
deserve elevated care



Hillrom<sup>™</sup>

# The Evolving State of Med-Surg



INCREASING PATIENTS, ACUITY AND COMPLEXITY

STAGNANT TECHNOLOGY & INNOVATIONS

COST CONSTRAINTS

HIGH PATIENT-TO-NURSE RATIOS

STAFF TURNOVER, RETENTION AND TRAINING





# CONSTANT CHANGE AND INCREASED COMPLEXITY IN MED-SURG REQUIRES A COMPREHENSIVE SOLUTION

Optimized Patient Safety

Enhanced Patient Satisfaction

Advanced Caregiver-Focused  
Technology



Hillrom™



# Optimized Patient Safety



Fall Prevention



Pressure Injury  
Prevention



Early Recognition  
of Patient  
Deterioration



Real-Time  
Incontinence  
Detection

Enhanced Patient Satisfaction

Advanced Caregiver-Focused Technology



Hillrom™

# Help 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>1</sup>

59

PATIENTS WILL  
BE INURED.<sup>1</sup>



## RESULT:

YOUR FACILITY MAY  
BEAR COSTS OF \$1.3M  
OR MORE PER YEAR.<sup>2</sup>



# Elevate Care: Optimize Patient Safety with Safeview®+ System and 3-Mode Bed Exit

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

↓ **23%** REDUCTION IN TOTAL FALLS.

↓ **58%** REDUCTION IN FALLS WITH MODERATE/MAJOR INJURY.

over a four-year period according to a study conducted at San Francisco General Hospital.<sup>3</sup>

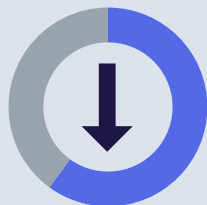
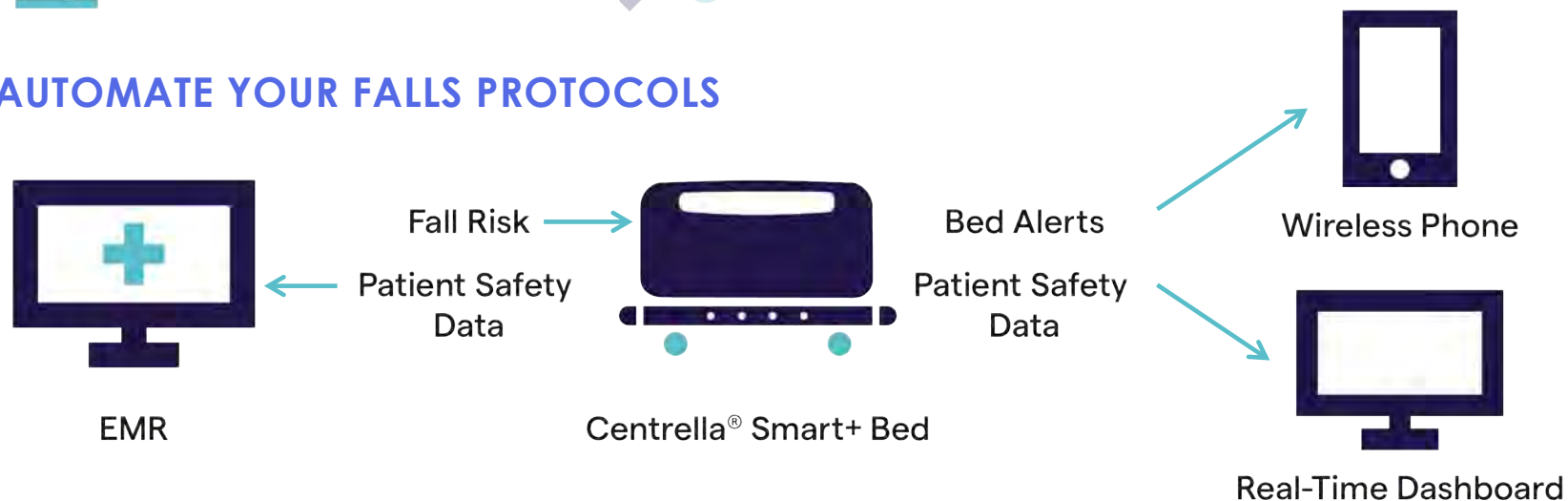


Together, we can reduce patient falls one Centrella® Smart+ Bed at a time.

# NaviCare® Patient Safety



## AUTOMATE YOUR FALLS PROTOCOLS



**PROVEN TO REDUCE THE AVERAGE RATE OF FALLS BY 62%.<sup>4</sup>**

# Reduce the Prevalence of Pressure Injuries And Overall Cost of Care

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

**170** PATIENTS WILL  
ACQUIRE A  
PRESSURE INJURY

**RESULT:** Your facility could bear costs  
of \$1.8m or more per year.<sup>5,6,7</sup>

Using the IPUPTM Survey + HillromTM and  
WOCN® Surface Algorithm + HillromTM Surface  
Technologies helped one facility achieve a

↓ **33%** REDUCTION  
IN PRESSURE INJURY  
PREVALENCE.<sup>8</sup>





# Pressure Injury Prevention



## Centrella® max Surface

4X↑  
7X↑

### Focused Advanced Microclimate® Technology

- Removes up to 4X more heat and 7X more moisture.<sup>9</sup>

13%↓

### Weight-Based Pressure Redistribution

- Up to 13% less peak sacral pressure.<sup>9</sup>

77%↑

### Enhanced Turn Assist

- More effective turn in 77% less time.<sup>11</sup>

## Centrella® pro+ Surface

2.5X↑  
4X↑

### Focused Advanced Microclimate® Technology

- Removes 2.5x more heat and 4x more moisture.<sup>12</sup>

8%↓

### Targeted and Customized Pressure Redistribution

- Up to 8% less peak sacral pressure.<sup>12</sup>

## Centrella® pro Surface

21%↓

### Targeted Pressure Redistribution

- Up to 21% less peak sacral pressure.<sup>9</sup>

5X↓

### Best-in-class Comfort

- Rated 5X more comfortable.<sup>10</sup>



# Enable Earlier Recognition of Patient Deterioration



## CONTACT-FREE, CONTINUOUS MONITORING, POWERED BY EARLYSENSE

The only contact-free, continuous monitoring solution integrated into a platform, designed for the med-surg patient.

Continuous monitoring in an inpatient 33-bed med-surg unit led to:<sup>13</sup>

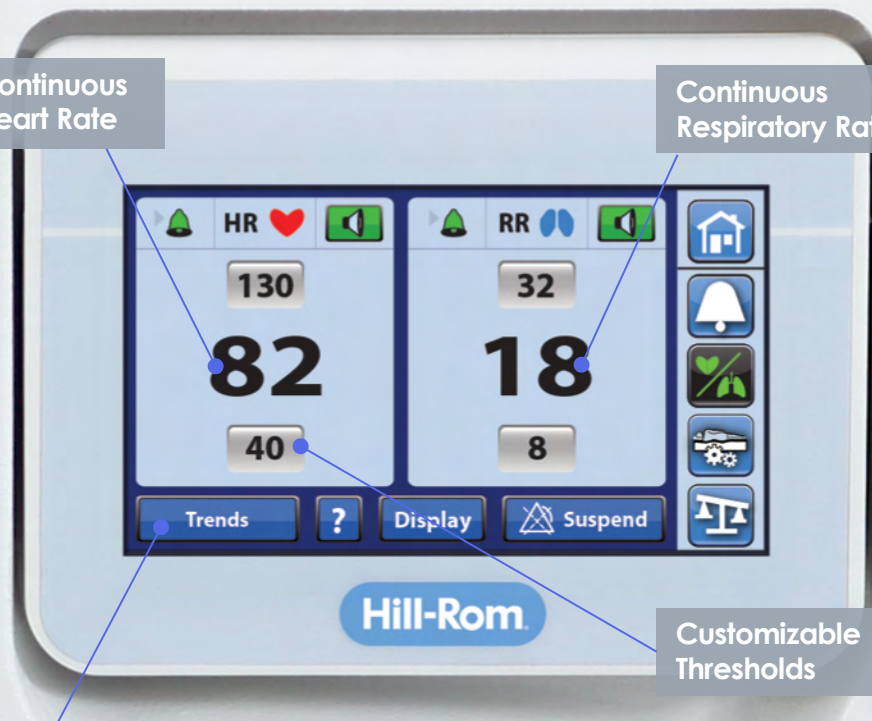
↓ **86%** Reduction in Number of Code Blue Events

↓ **45%** Reduction in Number of ICU days on patients transferred from med-surg

↓ **9%** Reduction in Length of Stay

Continuous Heart Rate

Continuous Respiratory Rate



Trend data available in intervals up to 7 days

Customizable Thresholds

# Earlier Recognition of Patient Deterioration



Contact-Free,  
Continuous  
Monitoring +  
Trend Indication



Early  
Recognition  
of Patient  
Deterioration



Earlier  
Intervention



Improved  
Patient Safety  
Outcomes

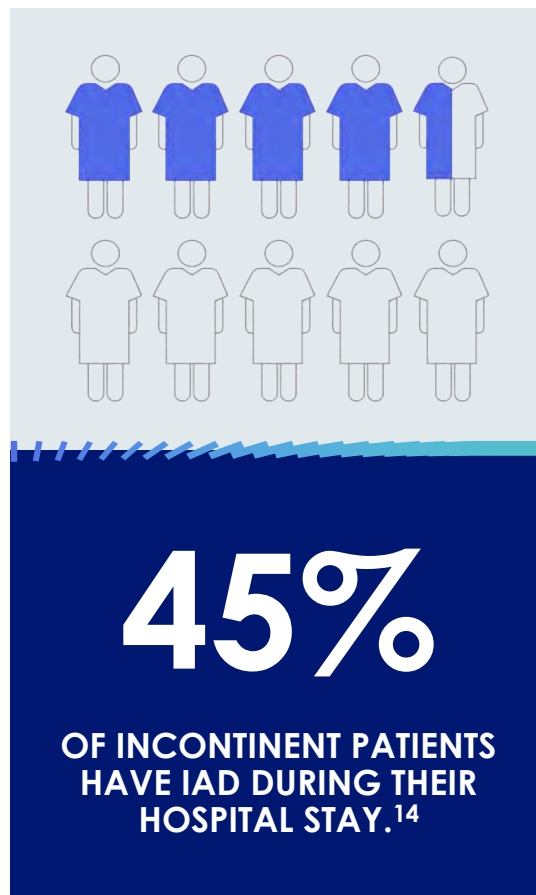
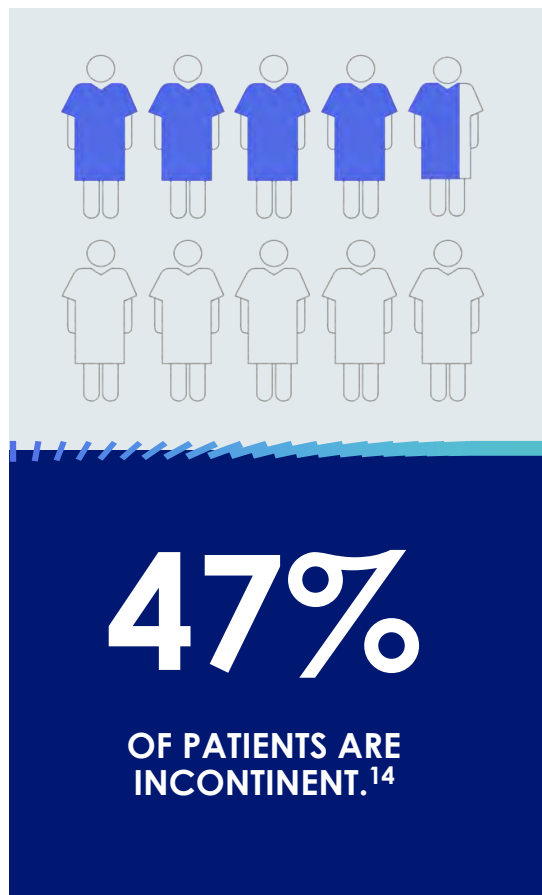


Reduced  
Financial Burden



Hillrom™

# Elevate the Patient Experience and Enhance Safety Through Real-Time Incontinence Management.



# WatchCare™ Incontinence Management System



## PROTECT PATIENT'S SKIN

- 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

- Allows resting patients to be monitored without awkward incontinence checks
- Eliminates the embarrassment of self-reporting and promotes dignity



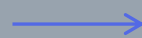
## OPTIMIZE CAREGIVER EFFECTIVENESS

- Promotes responsiveness to incontinent events
- Provides caregivers with information to prioritize the right patient, at the right time

**SKIN CAN BE COMPROMISED IN AS LITTLE AS 15 MINUTES AFTER EXPOSURE TO MOISTURE, DESPITE THE USE OF A PREMIUM UNDERPAD.<sup>16</sup>**

IN A MED SURG UNIT,  
TIME WAS REDUCED FROM:

**2+ HOURS**



**19 MINUTES**

FOR SKIN EXPOSED  
TO MOISTURE.<sup>17</sup>



# Enhanced Patient Satisfaction

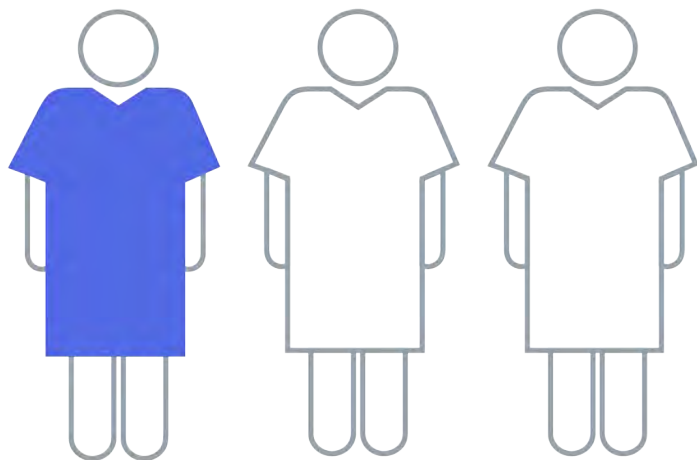
Optimized Patient Safety

Advanced Caregiver-Focused Technology



# Patient Dissatisfaction is More Common Than You Think

1 IN 3 PATIENTS LEAVE AN AVERAGE HOSPITAL LESS THAN FULLY SATISFIED.<sup>16</sup>



When the patient experience declines, so does your reimbursement.



In the average 100-bed facility:<sup>19,20</sup>

**\$923,000**

will be withheld in Centers for Medicare & Medicaid Services (CMS) reimbursement.

**\$462,000**

will be directly related to Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) and Efficiency of Care.

# Centrella® Smart+ Bed Technology

DESIGNED WITH THE PATIENT EXPERIENCE IN MIND



"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."



## COMMUNICATION

### NURSE CALL FEATURE:

Only visible when connected to nurse call and provides audible and visible confirmation of placed calls.

## COMFORT

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

## CONVENIENCE

### USB PORT AND DEVICE STORAGE AREA:

Patients can conveniently charge personal devices and store personal items.

# Transforming the Patient Experience with the Experience POD<sup>®</sup> Device

The Experience POD<sup>®</sup> device brings home entertainment to the hospital bed. While in bed, patients can surf the internet, stay in touch with family and friends, and access entertainment such as Netflix and HBO – all hands free!

## THE EXPERIENCE POD<sup>®</sup> DEVICE ALSO INCLUDES:

- Location to mount and charge a personal device
- Patient controls, including comfort adjust
- Active nurse call button



# Advanced Caregiver- Focused Technology

Optimized Patient Safety

Enhanced Patient Satisfaction





# The Demands on the Med-Surg Nurse Continues to Increase

**MANY MED-SURG  
NURSES MANAGE 5-7  
PATIENTS AT A TIME.<sup>21</sup>**



High patient volume is a dangerous pattern and can lead to increased harm to patients including healthcare-associated infections, increased length of stay and higher rates of readmission.<sup>22</sup>

# Use Your Bed Data & Alerts When and Where You Need Them

OPEN. INTEROPERABLE. SECURE.



*\*Patient calls through nurse call system require a wired connection per UL1069.*



# Make Smart Bed Data Visible & Actionable

Connect to your patients at all times so you know when they are safe and when they are at risk.



# Reduce Steps, Speed Workflow, Impact Outcomes



## Enable Virtual Rounding

Identify patients at risk or waiting for response.

## Improve Response Times

Notify care teams in real-time with context.

## Spend Less Time Charting

Ease documentation of bed data, ensure accuracy.

## Achieve Continuous Improvement

Benchmark clinical performance and set goals for improvement.

## Maximize System Up Time

Troubleshoot bed maintenance status to help eliminate safety risks.

# Graphical Caregiver Interface (GCI)<sup>®</sup> Touchscreen

THOUGHTFULLY DESIGNED FOR EASE-OF-USE AND EFFICIENCY



Home



3-mode Bed Exit  
Alert Setting



Heart Rate & Respiratory  
Rate (HR/RR) Monitoring



Mattress  
Menu



Scale Functions/  
Settings



Help Menu





# Technology Focused on Keeping Caregivers Safe

HELPS REDUCE THE STRESS AND STRAIN ON CAREGIVERS



## PATIENT TRANSPORT

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### INTELLIDRIVE® POWERED TRANSPORT:

Reduce the stress and strain, especially during long patient transports.



## PATIENT TURNS

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### ENHANCED TURN ASSIST:

Turn patients up to 30 degrees in 30 seconds –

**77% MORE EFFECTIVE** than other beds.<sup>11</sup>



## PATIENT REPOSITIONING

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### BOOST® POSITIONING FEATURE:

Places bed in optimal position to boost patients towards the head of bed.

# Centrella® Smart+ Bed

THE EXTENSION OF YOUR CARE TEAM

Centrella® Smart+ Bed

Therapeutic Surfaces

Patient Safety Applications



Hillrom™

# Therapeutic Surfaces

THE EXTENSION OF YOUR CARE TEAM

Centrella® Smart+ Bed

Therapeutic Surfaces

Patient Safety Applications



# Patient Safety Applications

## THE EXTENSION OF YOUR CARE TEAM

Centrella® Smart+ Bed

Therapeutic Surfaces

Patient Safety Applications

 = NAVICARE® PATIENT SAFETY



**WATCHCARE® INCONTINENCE MANAGEMENT**



**CONTACT-FREE, CONTINUOUS MONITORING**  
powered by EarlySense



**Hillrom™**



# Centrella® Smart Bed Solution

THE EXTENSION OF YOUR CARE TEAM

Centrella® Smart+ Bed

Therapeutic Surfaces

Patient Safety Applications



Hillrom™



# FOR US, THE BED IS JUST THE BEGINNING.

## 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



See Centrella® Smart+ Bed in action at [Centrellabed.com](http://Centrellabed.com)



Hillrom™

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.

## ADVANCING CONNECTED CARE THROUGH OUR MED-SURG SOLUTIONS.



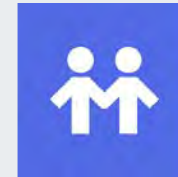
Smart Beds & Surfaces



Safe Patient Handling & Mobility



Patient Monitoring



Care Communications



SmartCare™ Services

Explore the Med-Surg Solution on [Hillrom.com](https://www.hillrom.com)



**Hillrom**™



# Appendix

# Centrella® Smart+ Bed



## STANDARD FEATURES AND OPTIONS

Value driven and upgradeable Centrella® Smart+ Bed solution offerings.

### STANDARD FEATURES

Enhanced 3-Mode Bed Exit	Graphical Caregiver Interface (GCI) Touchscreen
Motion Activated Nightlight	One-button chair
One-button Patient Stand Assist	Scale (KG/LBS)
Advanced SlideGuard® Technology	Battery Back-up
Foley Position Limit	Digital Angle Indicator
Trendelenburg/Reverse Trendelenburg	Four Corner Brake and Steer
Dampen Emergency CPR	Line and Cord Management
Device Storage Area	Four IV Pole Sockets
Integrated Urinal Holders	Integrated Restraint Holders
FlexAfoot™ Powered Bed Extension	Drainage Bag Holder
Wireless Enabled	Scalability

### PACKAGE 255

Advanced Patient Pendant
USB Charging
Verbal Safety Prompts
Patient Safety Apps: Contact-Free, Continuous Monitoring Capable

### PACKAGE 355

Includes Package 255
Centrella® max Powered Air Surface
SafeView®+ System
IllumiGuide™ Siderail Handgrip
Second Graphical Caregiver Interface (GCI) Touchscreen

### AVAILABLE OPTIONS

Centrella® core Surface	Second Advanced Patient Pendant
Centrella® pro Surface	Active Nurse Call Button
Centrella® pro+ Surface	Universal TV and Lighting Controls
Centrella® max Powered Air Surface	Second Graphical Caregiver Interface (GCI) Touchscreen
SafeView®+ System	Accessory Outlet
IllumiGuide™ Siderail Handgrip	5th Wheel Steering
IntelliDrive® Powered Transport	Patient Safety Apps: <ul style="list-style-type: none"> <li>NaviCare® Patient Safety</li> <li>Contact-Free, Continuous Monitoring</li> <li>WatchCare® Incontinence Detection System</li> </ul>
Comfort Edition 40" Width	
Obstacle Detection® System	

# Universal Fall Prevention



- Safeview®+ System
- Enhanced 3-mode bed exit with silence and auto reset
- IllumiGuide™ Siderail Handgrip
- Motion-activated nightlight
- Verbal safety prompts





# Universal Fall Prevention



## – SAFEVIEW®+ SYSTEM

Helps caregivers monitor patient safety at-a-glance with easy-to-read visual projections.

- Enhanced 3-mode bed exit with silence and auto reset
- IllumiGuide™ Siderail Handgrip
- Motion-activated nightlight
- Verbal safety prompts



# Universal Fall Prevention



– Safeview®+ System

**Includes silence, auto reset, and visual/audible safety prompts.**

– **ENHANCED 3-MODE BED EXIT WITH SILENCE AND AUTO RESET**

– IllumiGuide™ Siderail Handgrip

– Motion-activated nightlight

– Verbal safety prompts



# Universal Fall Prevention



– Safeview®+ System

**Enhances visibility to safely guide patients back to bed.**

– Enhanced 3-mode bed exit with silence and auto reset

– **ILLUMIGUIDE™ SIDERAIL HANDGRIP**

– Motion-activated nightlight

– Verbal safety prompts



# Universal Fall Prevention



- Safeview®+ System
- Enhanced 3-mode bed exit with silence and auto reset
- IllumiGuide™ Siderail Handgrip
- **MOTION-ACTIVATED NIGHTLIGHT**
- Verbal safety prompts

**Illuminates the path to guide patients to and from the bed.**



# Universal Fall Prevention



- Safeview®+ System
- Enhanced 3-mode bed exit with silence and auto reset
- IllumiGuide™ Siderail Handgrip
- Motion-activated nightlight
- **VERBAL SAFETY PROMPTS**





# Elevate Care: Optimize Patient Safety with Safeview®+ System and 3-Mode Bed Exit

HILLROM™ BED EXIT SYSTEM WITH AUDIBLE ALARM COMBINED WITH FALLS PROTOCOL HELPED RESULT IN:

↓ **55%** REDUCTION IN TOTAL FALLS.

from 5.8 to 3.2 per 1,000 patient days in a study conducted on a med-surg inpatient unit.<sup>3</sup>



Together, we can reduce patient falls one Centrella® Smart+ Bed at a time.



Hillrom™

# Therapeutic Surfaces Overview



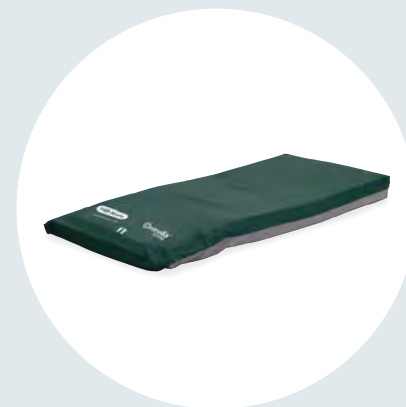
Centrella® max  
Surface



Centrella® pro+  
Surface



Centrella® pro  
Surface



Centrella® core  
Surface

# Centrella® max Surface



## ADVANCED TECHNOLOGY DELIVERING SUPERIOR PRESSURE REDISTRIBUTION AND MICROCLIMATE MANAGEMENT

### Focused Advanced Microclimate® Technology

- Removes up to 4X more heat and 7X more moisture.<sup>9</sup>

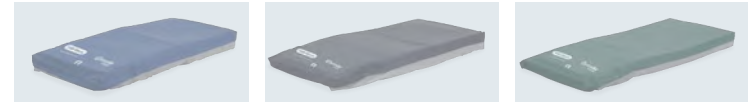
### Enhanced Turn Assist

- More effective turn in 77% less time.<sup>11</sup>

### Weight-based Pressure Redistribution

- Up to 13% less peak sacral pressure.<sup>9</sup>





# Centrella® pro+ Surface

ADVANCED TECHNOLOGY DELIVERING SUPERIOR PRESSURE REDISTRIBUTION AND MICROCLIMATE MANAGEMENT

## Focused Advanced Microclimate® Technology

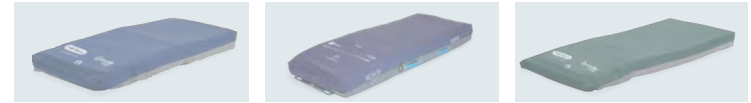
- Removes 2.5x more heat and 4x more moisture.<sup>12</sup>

## Weight-based Pressure Redistribution

- Up to 8% less peak sacral pressure.<sup>12</sup>



# Centrella<sup>®</sup> pro Surface



**TARGETED AND CUSTOMIZED NON-POWERED PRESSURE REDISTRIBUTION FOR OPTIMAL PATIENT SUPPORT AND COMFORT**

## Targeted Pressure Redistribution

- Up to 21% less peak sacral pressure.<sup>9</sup>

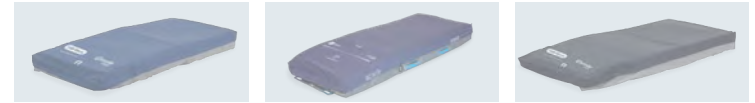
## Best-in-class Comfort

- Rated 5X more comfortable.<sup>10</sup>





# Centrella<sup>®</sup> core Surface



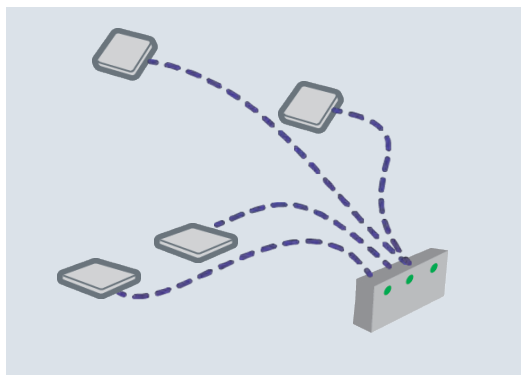
**NON-POWERED PRESSURE REDISTRIBUTION DESIGNED TO ENHANCE PATIENT COMFORT**

## Multi-layer Foam Construction

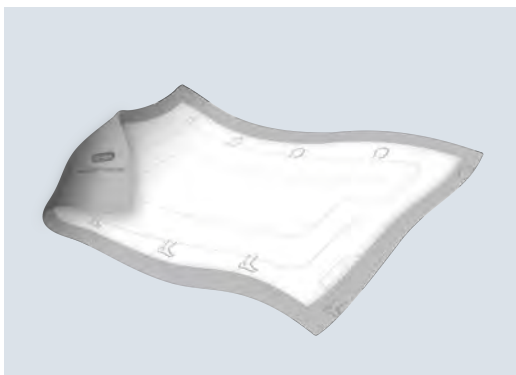
- Up to 11% less peak sacral pressure<sup>9</sup>



# WatchCare<sup>®</sup> Incontinence Management System



MONITOR



DETECT



INFORM

# Graphical Caregiver Interface (GCI)<sup>®</sup> Touchscreen

THOUGHTFULLY DESIGNED FOR EASE-OF-USE AND EFFICIENCY



Home



3-mode Bed Exit  
Alert Setting



Heart Rate & Respiratory  
Rate (HR/RR) Monitoring



Mattress  
Menu



Scale Functions/  
Settings



Help Menu



# Graphical Caregiver Interface (GCI)<sup>®</sup> Touchscreen

THOUGHTFULLY DESIGNED FOR EASE-OF-USE AND EFFICIENCY



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3-mode Bed Exit  
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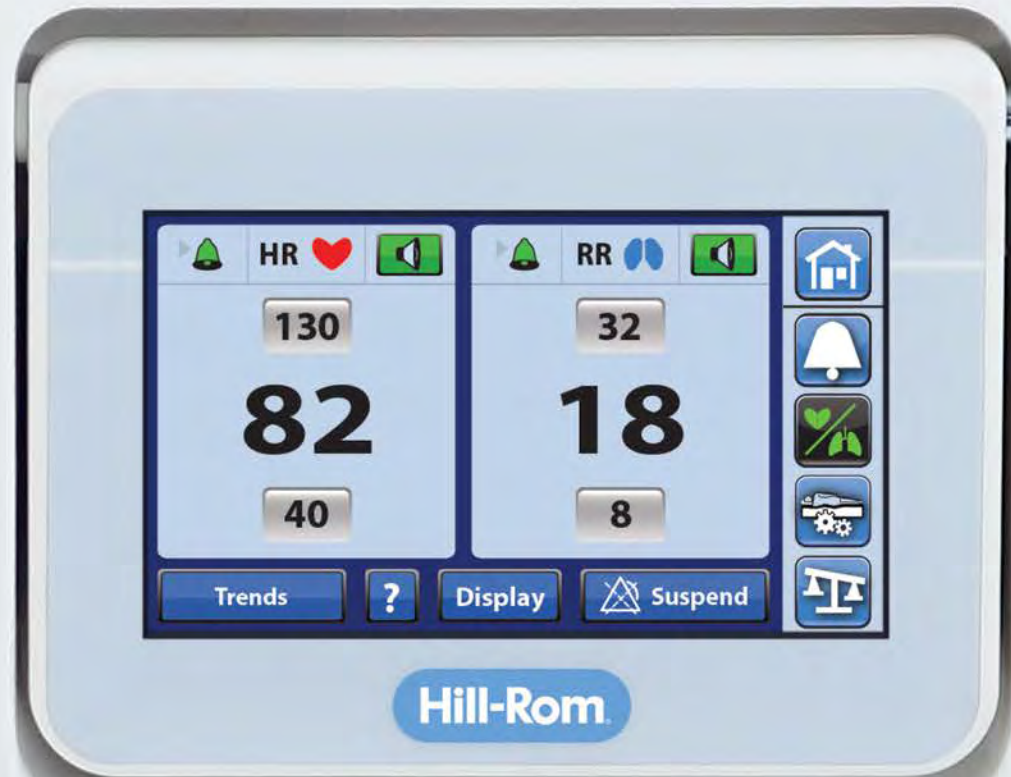
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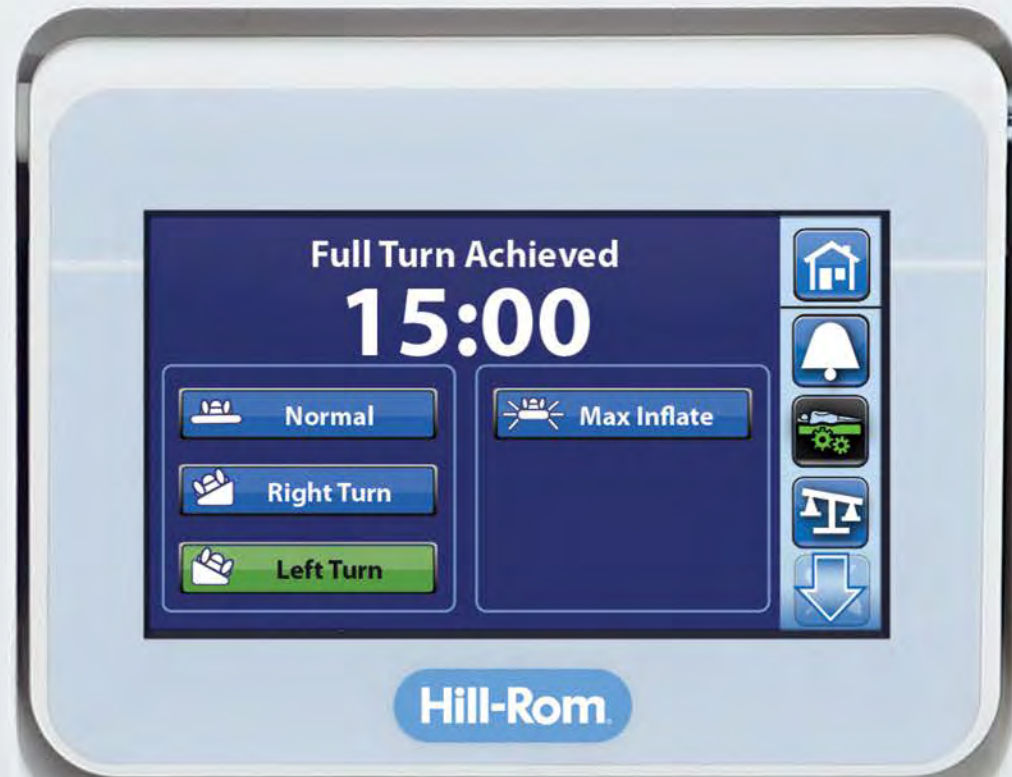
Mattress  
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Scale Functions/  
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Help Menu





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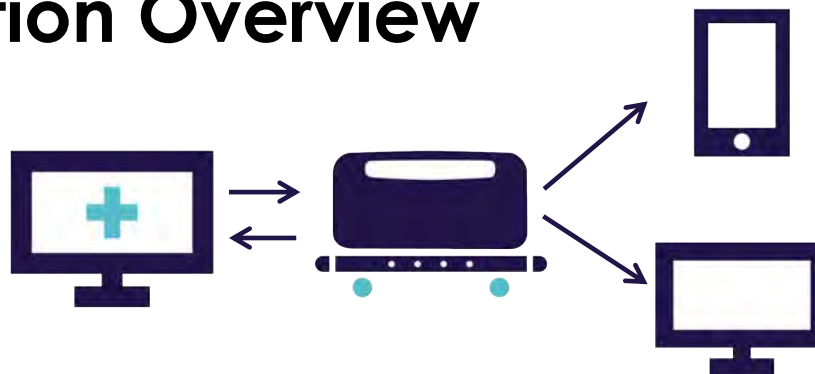
Scale Functions/  
Settings



Help Menu



# Connectivity Solution Overview



**NAVICARE®  
PATIENT SAFETY**  
+ REAL-TIME STAFF LOCATING

**Alarm Management via Caregiver Presence**  
(Real-Time Staff Locating)

**NAVICARE®**  
PATIENT SAFETY

**Bed Safety Alerts to Wireless Phones**  
(Wireless Phone & Staff Assignment Integrations)

**Automatic Arming of Bed Exit Alarm**  
(NaviCare® Patient Safety)

**BASE BED  
CONNECTIVITY\***

**Real-Time Dashboard for Bed Data** (Status Board)

**Bed Data into EMR** (Outbound EMR Integration)

**Reporting on Bed State** (Enterprise Reporting)

\*Wired or wireless

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