



CENTRELLA® SMART+ BED:
Contact-Free,
Continuous Monitoring

Powered by EarlySense

Enhancing outcomes for
patients and their caregivers:



LIFE-ALTERING MOMENTS HAPPEN IN MED-SURG

The Med-Surg environment is challenging – patient acuity and complexity are increasing and patient-to-nurse ratios are high. Amidst this reality, too many patients are dying from preventable causes.

Unrecognized patient deterioration can lead to mortality and may affect as many as 17% of hospital admissions.¹

Adverse Drug Events and Hospital Acquired Infections are two of the most common contributing factors.

Opioid Induced
Respiratory Failure

15,000+

ANNUAL DEATHS²

\$2B

IN EXCESS COSTS
TO TREAT³

1/3

OF CODE BLUE EVENTS
STEM FROM OPIOIDS³

Sepsis

150-300K

ANNUAL DEATHS⁴

\$20B

IN COSTS
TO TREAT⁴

8%

INCREASE IN MORTALITY
FOR EVERY HOUR
TREATMENT IS DELAYED⁵

EARLY INTERVENTION FOR THESE PATIENTS
IS CRUCIAL TO KEEPING THEM SAFE.





THERE ARE INHERENT CHALLENGES TO THE EXISTING STANDARD OF CARE.

A SIGNIFICANT NUMBER OF CRITICAL EVENTS ARE PRECEDED BY WARNING SIGNS 6-8 HOURS PRIOR TO THE EVENT.¹

The two most important predictors for adverse events are:



Heart Rate



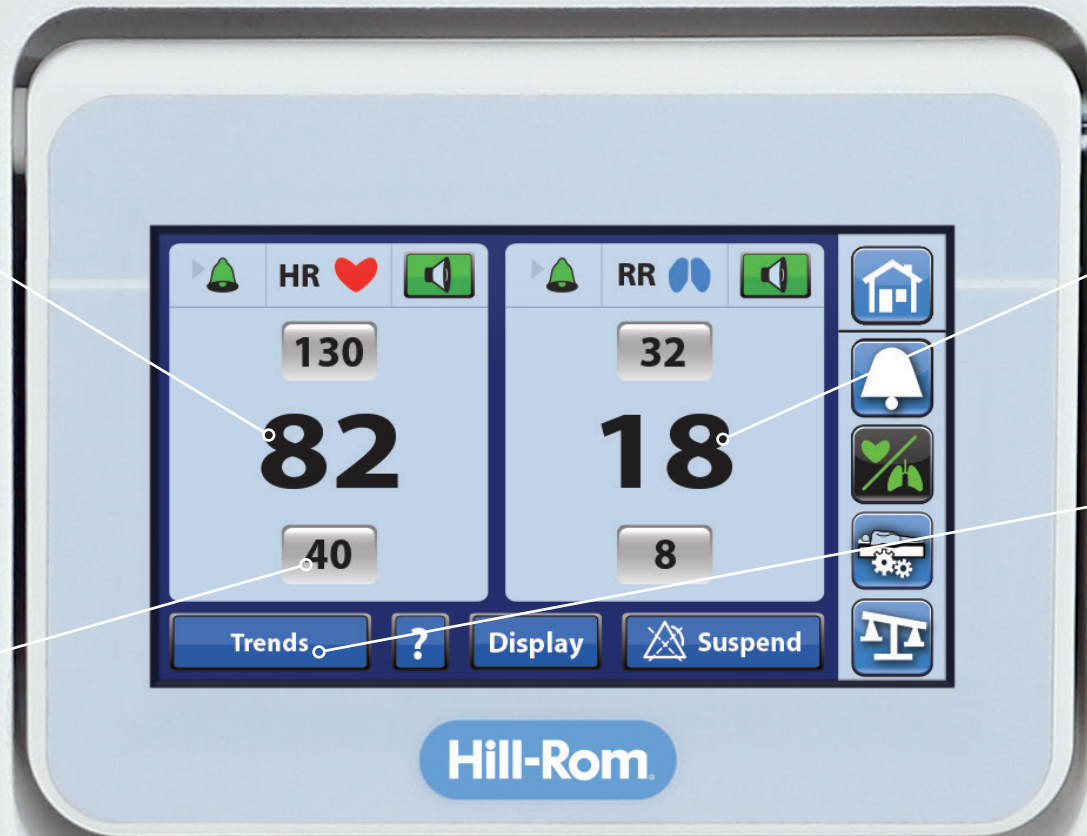
Respiratory Rate

THE EXISTING STANDARD OF CARE **IS NOT ENOUGH**

- Rapid response teams rely on nurses to recognize patient deterioration to intervene prior to a critical event.
- Despite the Q4 standard for vitals, intervals between vitals can be eight hours or longer.
- When vitals are measured, they can be incomplete and respiratory rate is difficult to measure.
- Unrecognized patient deterioration may occur during these intervals.

THE CENTRELLA® SMART+ BED WITH 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
HEART RATE

CONTINUOUS
RESPIRATORY RATE

TREND DATA
AVAILABLE IN
INTERVALS UP TO 7
DAYS

CUSTOMIZABLE
THRESHOLDS

**Thresholds are customizable to facility protocols and individual patient needs.*



Contact-Free,
Continuous
Monitoring
+
Trend
Indication



Earlier
Recognition
of Patient
Deterioration



Earlier
Intervention



Improved
Patient Safety
Outcomes



Reduced
Financial Burden

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



PROVEN RESULTS

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

86% ↓

REDUCTION IN NUMBER OF
CODE BLUE EVENTS⁶

45% ↓

REDUCTION IN NUMBER OF
**ICU DAYS ON PATIENTS
TRANSFERRED
FROM MED-SURG⁶**

9% ↓

REDUCTION IN
LENGTH OF STAY⁶

CONTACT-FREE, CONTINUOUS MONITORING: ENABLES EARLY DETECTION OF PATIENT DETERIORATION



**HEART RATE & RESPIRATORY RATE
SAFEVIEW®+ INDICATOR**
Notifies caregivers when heart rate
and respiratory rate exceed one
of the set thresholds.



NURSE CALL INTEGRATION

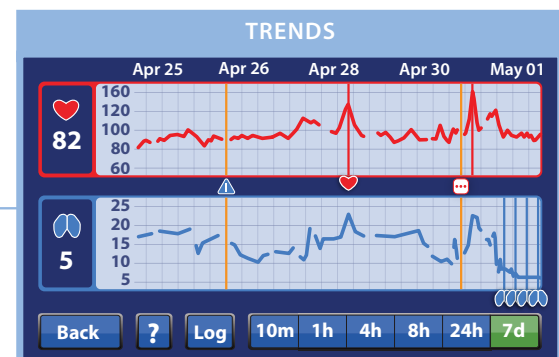
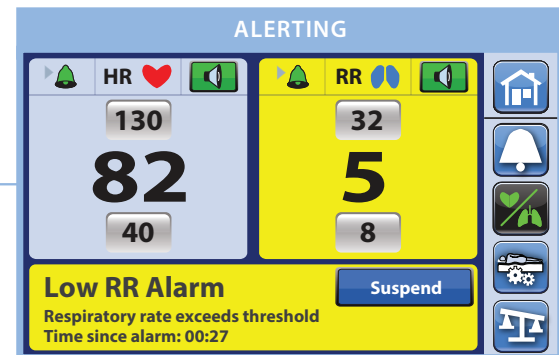
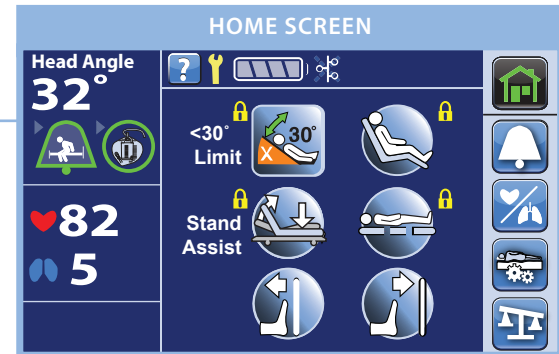
Heart rate and respiratory rate alerts are routed from the bed to the nurse call system.



INTEGRATED EARLYSENSE® SENSOR detects heart rate and respiratory rate through the surface.

GRAPHICAL CAREGIVER INTERFACE™ TOUCHSCREEN

Flip-up panel provides quick access to easy-to-use controls and heart rate and respiratory rate user interface screens.



Hill-Rom is a leading global medical technology company whose products, services and more than 10,000 employees worldwide help people get better care inside and outside the hospital. Our innovations in five core areas – **Advancing Mobility, Wound Care and Prevention, Patient Monitoring and Diagnostics, Surgical Safety and Efficiency, and Respiratory Health** – improve clinical and economic outcomes and ensure caregivers in more than 100 countries have the products they need to protect their patients, speed up recoveries and manage conditions. [Every day, around the world, we enhance outcomes for patients and their caregivers.](#) Learn more at hill-rom.com.

References

1. Zimlichman, et al. *Contactless respiratory and heart rate monitoring: validation of an innovative tool.* *J of Med Eng & Tech*, Vol. 34, Nos 7-8, Oct-Nov 2010, 393-398.
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5. *Sepsis Alliance.* *Sepsis.org.* *Sepsis Fact Sheet.*
6. Brown HV, et al. *The American Journal of Medicine.* 2014; 127:226-232.

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