



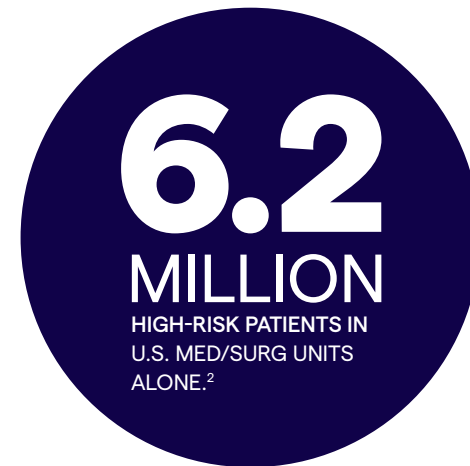
Hillrom™

SOLUTIONS YOU CAN COUNT ON

Capture respiration rate to help detect patient deterioration sooner with Welch Allyn® Connex® monitors.

PREDICTING PATIENT DETERIORATION IS MORE CRITICAL THAN EVER.

Risk factors and comorbidities are increasing, and patient acuity levels are rising in general care areas, while staff-to-patient ratios remain the same.¹



Respiration rate is the leading indicator of patient deterioration 8-12 hours prior to an event, yet it is the least documented and most omitted vital sign.^{3,4}

**ONLY
1X/DAY**

Vital sign documentation is much lower for respiration rate (1X/day) versus blood pressure (5X/day), heart rate (4.4X/day) and temperature (4.2X/day).⁵

RESPIRATORY COMPROMISE ON THE GENERAL CARE FLOOR CAN HAVE SERIOUS CONSEQUENCES:⁶

- Increases hospital stays by as much as 180%
- Increases cost of care by 47%
- 29X higher patient mortality rate

Are you adequately monitoring patients at risk due to opioid medication use, other comorbidities or pulmonary illness?

- 29% of adverse respiratory events are related to inadequate monitoring⁷
- 42% of opioid-induced respiratory events occur within two hours of the last spot check⁸
- 86% reduction of code blue events when using continuous monitoring⁹

Capturing accurate respiration rate data is vital, but it can also be a challenge.

The Welch Allyn® Connex® family of vital signs devices offers respiratory monitoring solutions for every patient acuity level—from simple spot check to continuous monitoring with centralized remote viewing.

Visually assessing respiration rate? Go digital.

Digitally spot-check respiration rate without changing your workflow. Acquire accurate, connected readings as part of routine vitals capture on patients greater than two years old, helping detect early signs of deterioration.

The Welch Allyn Connex Spot Monitor with digital respiration rate:

- Uses Masimo® RRp® technology to acquire a respiration rate in less than a minute using standard Masimo LNCS® or RD SET™ sensors
- Eliminates subjective measurements, bias and/or multiplication artifact from visual respiration rate assessment
- Includes the ability to incorporate into your early warning score protocol



Proactively monitor patient status 24/7 to help you quickly recognize respiratory distress and respond to signs of patient deterioration.

The Welch Allyn Connex Vital Signs Monitor with Medtronic® Microstream™ continuous capnogra monitoring:

- Enables continuous monitoring of CO₂ at the
- Helps caregivers identify respiratory depression quickly and effectively
- Reflects change in ventilation within 10 seconds
- Alarms when measurements go outside of set thresholds
- Features a unique Pulmonary Index to help caregivers assess respiratory status





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Immediate access to vital respiration data.

The Welch Allyn® Connex® Central Station provides centralized, real-time information so you can view a patient's respiratory status at a glance and have access to alarms to enable faster response times. Plus, with EMR integration, intermittent vitals and continuous monitoring data are automatically documented into the patient chart, giving you immediate access to accurate patient data anywhere in the facility.



Leverage your existing devices.

Device upgradeability helps maximize investments, increase staff efficiency and provide flexibility as patient care needs change. Add the parameters you need to help detect patient deterioration faster and reduce respiratory compromise.

Contact your local Hillrom representative for upgrade paths.

Visit discover.hillrom.com/respiration-rate to learn more.

hillrom.com

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¹ Celeste M Torio, PhD, MPH and Roxanne M Andrews, PhD. National Center for Biotechnology Information. National Inpatient Hospital Costs: The Most Expensive Conditions by Payer, 2011. <https://www.ncbi.nlm.nih.gov/books/NBK169005/>. Accessed September 26, 2019.

² Navigant Consulting, Inc. – Analysis of Healthcare Claims Data (HCUP-INS), Page 58

³ 2003 Subbe et al., Effect of introducing the Modified Early Warning Score on clinical outcomes, cardio-pulmonary arrests and intensive care utilization in acute medical admissions. *Anesthesia*.

⁴ Cretikos, M., Bellomo, R., Hillman, K., Chen, J., Finfer, S., & Flabouris, A. (2008). Respiratory Rate: The Neglected Vital Sign. *Medical Journal of Australia*, 188(11): 657-659.

⁵ 2008, Van Leuvan et al. *Australia*

⁶ Kelley S, Agarwal S, Parikh N, Ersilon M, Morris P. Respiratory insufficiency, arrest and failure among medical patients on the general care floor. *Crit Care Med*. 202;40(12 Suppl):764

⁷ The Joint Commission, Sentinel Event Alert, Safe Use of Opioids in Hospitals, Issue 49, August 8, 2012

⁸ Postoperative Opioid-induced Respiratory Depression: A Closed Claims Analysis. Lorri A. Lee, M.D.; Robert A Caplan, M.D.; Linda S. Stephens, Ph.D.; Karen L. Posner, Ph.D.; Gregory W. Terman, M.D., Ph.D.; et al

⁹ Brown, HV et al. *The American Journal of Medicine*. 2014; 127:226-232.

The Connex Spot Monitor (CSM), the Connex Vital Signs Monitor (CVSM) and the Connex Integrated Wall System (CIWS) are intended to be used by clinicians and medically qualified personnel for monitoring vital signs of all patients. Monitoring respiration rate from photoplethysmogram (RRp) is indicated for adult and pediatric patients greater than 2 years old. Additionally, the CIWS handles supply power to Welch Allyn 3.5V instruments. The Connex Central Station System (CCSS) is intended to be used by clinicians for the central monitoring of patient data and alarms collected with Connex monitors. CSM and CIWS are medical device (93/42/EEC) Class IIa. CVSM and CCSS are medical device (93/42/EEC) Class IIb. Notified Body: DQS Medizinprodukte GmbH (CE0297) Manufacturer: Welch Allyn, Inc., 4341 State Street Road, Skaneateles Falls, NY 13153 USA. EC Rep.: Welch Allyn Limited, Navan Business Park, Dublin Road, Navan, County Meath, C15 AW22 Ireland. These medical devices are a regulated health products which, pursuant to such regulation bears a CE mark. Carefully read the detailed instructions for safe and proper use included in the documents accompanying the medical devices. The personnel of healthcare establishments are responsible for the proper use and maintenance of these medical devices.

Hill-Rom reserves the right to make changes without notice in design, specifications and models. The only warranty Hill-Rom makes is the express written warranty extended on the sale of its products.

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