



B | E | S
HEALTHCARE



EarlySense

Proactive Patient Care



Contact-Free
Early Alert System



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visit our website

The Unique EarlySense system

Reduces Falls, Pressure Ulcers, Alarm Fatigue and Provides Early Indication of Patient Deterioration

EarlySense is a contact-free, continuous monitoring system that detects Heart Rate, Respiratory Rate, and Motion – without touching the patient. In the event of a change in a patient’s status, the system alerts nurses on their hand-held devices and at the nurses’ station allowing them to provide patient care in a timely manner.

EarlySense has proven to reduce falls, pressure ulcers, alarm fatigue and helped clinicians to prevent critical events by allowing them to intervene early.



*Bed side All-in-One Monitor
(Combines outputs of Vitals
and Safety Units)*

Available in 3 models - Vitals Unit (detects heart rate and breathing rate); Safety Unit (Falls and Pressure Ulcer reduction); All-in-One Unit (includes features of Vitals and Safety).

Early Warning of Patient Deterioration



Benefits of Continuous Monitoring with EarlySense:

- Provides clinicians with the opportunity to make informed patient care decisions
- Encourages early intervention to prevent patient deterioration
- Help clinicians manage their time better to provide timely patient care
- Generates real-time trends and reports to analyse sleep patterns, effects of medication, etc.
- Provide data-driven decision making, removing the need to assume
- Reduce overall hospitalisation costs² by preventing re-admissions

Changes in Heart Rate and Respiratory Rate can indicate a critical event 6-8 hours before the event. Continuous monitoring of vitals allows opportunities for early intervention

Clinical Results

Significant reduction in ICU Days, and code blue events

 Significant reduction in
 overall length of stay



86%

Reduction
in code blue
events³

45%

Reduction
in length of stay in ICU
for patients coming
from the med/surg unit³

¹Chaboyer, W et al (2008) Predictors of Adverse Events in Patients After Discharge From the Intensive Care Unit *Am J Crit Care* **17**, 255-263

²Slight, SP et al (2014) The Return on Investment of Implementing a Continuous Monitoring System in General Medical-Surgical Units *Crit Care Med* **42**, 1862-8

³Brown, HV et al (2013) Continuous Monitoring in an Inpatient Medical-Surgical Unit: A Controlled Clinical Trial *Am J Med* **127**, 226-232

Clinical Benefits of using the EarlySense System

Reduced Alarm Fatigue

In contrast to other monitoring solutions on the market, EarlySense produces a very low Alarm Rate:

Monitoring Technology	Alarms per nurse per shift	Alarms per 100 hours of monitoring	False Alarms per nurse per shift
EarlySense ⁴	1.7	2.8	0.07
Telemetry ⁵	91.1	151.8	49.2
Oximetry ⁶	120.0	200.0	72.0

⁴ Zimlichman, E Evaluation of EverOn as a Tool to Detect Deteriorations *EarlySense.com*

⁵ LifeSync Wireless ECG System with LeadWear Disposable Cable Replacement System Reduces Artifact and Increases ECG Alarm Accuracy *LifeSync.com*

⁶ Malviya, S. et al. (2000) False alarms and sensitivity of conventional pulse oximetry versus the Masimo SET(TM) technology in the pediatric postanesthesia care unit. *Anesth Analg* 90, 1336-1340 care unit. *Anesthesia and Analgesia*. 2000;90(6):1336-1340.

Mobile Display Reminders



Real-time reminders on caregivers handheld devices to assist them in managing their time and tasks to provide better quality of care

Reduce Falls & Pressure Ulcer Incidence

EarlySense aids better management and prevention of falls and pressure ulcers through its motion sensors and turn programme

Motion-Based Fall Prevention Provides:

- Patient personalisation⁶: Levels of Bed Exit Sensitivity tailored to each patient depending on their condition
- Real-time alerts: Allows clinicians to get to the patient's bedside when the fall is still preventable
- Optimised night care through personalised monitored parameters set to suit a patient's needs at night³
- Early indication of patient's potential attempt to exit the bed up to 50 seconds prior to the ALERT⁷

Pressure Ulcer Reduction Programme Provides:

- Automatic motion analysis which assists clinicians to identify patients at high risk of developing Pressure Ulcers
- Information and analysis on patient turn movements and air mattress usage
- Real-time turn reminders to on-duty caregivers' handheld devices
- Movement data reports, including system recognition of patients' turns, response times, and ability to ensure team protocol compliance

Clinical Results

Significant reduction in:

- Patient Falls
- Pressure Ulcer Incidence



87%

Reduction
in patient falls^{8,9}

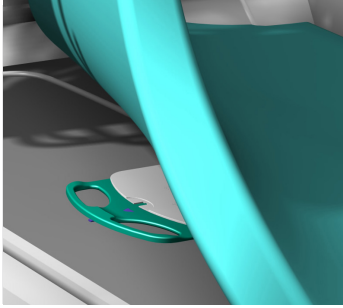
74%

Reduction
in pressure ulcer
incidence⁹

⁷ Klap, T & Shinar, Z (2013) Using piezoelectric sensor for continuous-contact-free monitoring of heart and respiration rates in real-life hospital settings *Comp in Cardiol Conf* , pp.671-4

⁸ Palace, ZJ et al (2013) Effect of a Continuous Patient Monitoring System on Reducing Falls and Hospitalization in Skilled Nursing Facilities. *Am Ger Soc*.

⁹ Brown, HV & Zimlichman, E (2010) Improved Outcomes and Reduced Costs with Contact-free Continuous Patient Monitoring on a Medical-Surgical Hospital Unit *EarlySense.com*



**Contact-Free
Sensor Mat**

EarlySense

Contact-Free
Patient Monitoring



Mobile Alerts

Unit Alerts Report
Updated: Sep 13, 2011, 11:44 AM

Room-Bed	Initials	Bed-Exit Sensitivity	Date
7761-1	L.G.	Sensitivity 2	Sep 13
		Sensitivity 2	Sep 13
770-2	A.M.	Sensitivity 5	Sep 12
		Sensitivity 5	Sep 12
		Sensitivity 5	Sep 13
775-1	S.P.	Sensitivity 1	Sep 13
782-1	N.K.	Sensitivity 2	Sep 12
		Sensitivity 3	Sep 13

Reports



In-Chair System

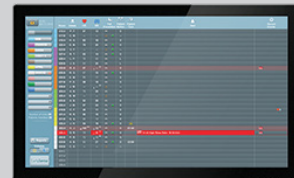


Bedside Monitor



To find out more
contact us on

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Nurses' Station



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