### **Counting down** to critical events: Catch them before it's too late



In one year, adverse events are estimated to cause up to

## 98,000

hospital patient deaths in the United States\*

\* The Permanente Journal, 2007.

#### **Up to 17% of patients** in the medical surgical areas of the hospital will face an unexpected complication<sup>\*</sup>

\* Bellomo R, Goldsmith D, Russell S, Uchino S. Postoperative serious adverse events in a teaching hospital: a prospective study. Med J Aust. 2002: 176:216–218



70% of cardiac arrest patients show signs of respiratory deterioration\* \* Lippincott, Williams and Wilkins, 2012.



66% of cardiac arrest patients show abnormal signs and symptoms\* \* American Heart Association



is when most Rapid Response Team patients are identified **most often too late to intervene**\*

\* American College of Chest Physicians

arrest

http://journal.publications.chestnet.org/ article.aspx?articleid=1186438

How automated Early Warning Scoring (EWS) can aid in identifying patient deterioration when **there's still time to make a difference** 

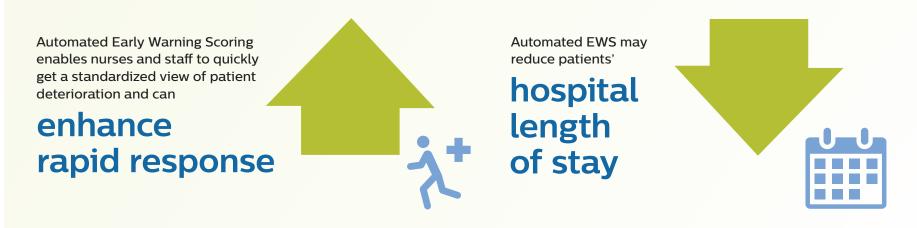


#### Turn back the clock:

EWS can aid in identifying subtle warning signs of physiological decline

### 6 to 8 hours before an event\*

\* Incidence, staff awareness and mortality of patients at risk on general wards. Fuhrmann L, Lippert A, Perner A, Østergaard D. Resuscitation. 2008 Jun;77(3):325-30. Epub 2008 Mar 14. PMID: 18342422 [PubMed - indexed for MEDLINE]



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