




**PHILIPS**

General care

Helping you detect  
patient deterioration  
for earlier intervention

A healthcare worker, likely a nurse, is shown in profile, wearing blue scrubs and a stethoscope. She is looking down at a patient who is lying in a hospital bed. The patient's face is partially visible on the right side of the frame, showing a nasal cannula and a pulse oximeter. The background is a bright, clinical setting with white walls and ceiling lights.

At Philips we believe there is always a way to make life better. We understand your commitment to providing outstanding care.

The transformation of healthcare has begun. Together, we can break down boundaries, remove complexity and deliver a holistic approach to healthcare when, where and how people need it most.

Our comprehensive solution for patient deterioration combines innovative technology with clinical services to guide adoption and provide change management planning, execution, staff training and post-implementation support.

Because today, health knows no bounds and neither should healthcare.

## General care: The challenges in numbers

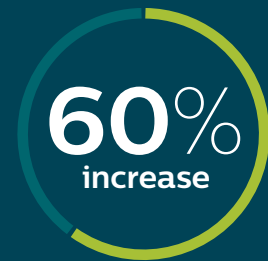
Fewer beds in intensive care units can result in higher acuity patients arriving to general care units sooner. Due to a lack of resources and low nurse to patient ratios, healthcare professionals face a difficult dilemma: how to identify potential clinical deterioration and intervene early?



**in 30-day mortality** for patients in the general ward who develop abnormal vital signs.<sup>1</sup>



**of cardiac arrest patients** show abnormal signs up to 6 hours prior to an adverse event, yet physicians are only notified 25% of the time.<sup>2</sup>



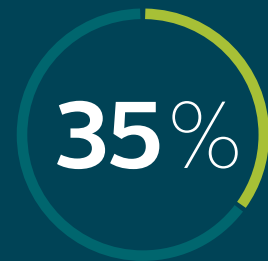
**in hospital cost** resulting from slower transfer to ICU due to late deterioration detection.<sup>3</sup>



**of preventable deaths** are attributable to failure to rescue by a registered nurse or physician.<sup>4</sup>



**of hospitalizations** experience medical errors and healthcare-related adverse events.<sup>5</sup>



**of at-risk patients** discharged from the ICU die on the general ward.<sup>6</sup>

<sup>1</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.

<sup>2</sup> Rutherford P, Lee B, Greiner A. Transforming Care at the Bedside. IHI Innovation Series white paper. Boston:

*Institute for Healthcare Improvement;* 2004. (Available on [www.IHI.org](http://www.IHI.org)).

<sup>3</sup> Young, MP, et al. Inpatient transfers to the intensive care unit: delays are associated with increased mortality and morbidity. *Journal of General Internal Medicine.* 2003 Feb;18(2):77-83.

<sup>4</sup> HealthGrades, Inc. Third Annual Patient Safety in American Hospitals Study. April 2006.

<sup>5</sup> <http://www.euro.who.int/en/health-topics/Health-systems/patient-safety/data-and-statistics>.

<sup>6</sup> Rowan KM, et al. Intensive Care Society's APACHE II study in Britain and Ireland – I. Variations in case mix of adult admissions to general intensive care units and impact on outcome. *British Medical Journal* 1993; 307: 972-7.





# Fast identification, informed decisions

Our portfolio of products, solutions and services can be tailored to solve your specific challenges including:

- Unrecognized patient deterioration
- Missed acute events
- Cardiac arrest, sepsis and respiratory distress
- Late or ineffective response and interventions

## Get time back on your side

Automated early warning scoring (EWS) helps you identify the subtle signs of deterioration that often precede a serious adverse event (SAE). Automated EWS can help you identify patients at risk, reduce response times, and allow your caregivers to intervene earlier.



# Respond to deterioration quickly with our four steps

We use a comprehensive approach to help you respond quickly, work more efficiently and improve outcomes in general care.



## 1. Assess

Gives you a 360-degree view of your clinical care, workflow and technology needs.



## 2. Acquire

Collect bedside and mobile data to share with our predictive analytics engine and your EMR.



## 3. Analyze

Gain actionable clinical insights through our decision-support tools and automated early warning score calculations.



## 4. Act

As partners in clinical change management, we help you adopt, plan and govern so you can achieve your organizational goals.

# Smart patient care meets clinical insight

From advanced technology, wearable devices and algorithms, to clinical services, training and education, we provide a comprehensive solution to help your staff detect patient deterioration outside of the ICU.

- **Patient monitors** give clinicians the reliable, comprehensive information they need at the touch of a screen
- **Wearable surveillance** devices wirelessly transmit data keeping staff up-to-the-moment and giving patients more freedom and mobility
- **Caregiver mobility tools** enhance clinician communication by providing event notifications and patient data on a mobile device
- **Automated early warning scoring** is designed to notify clinicians when a patient is at risk, so they can intervene earlier
- **Integrated EMR/ADT** solutions automate delivery of clinical data in a standardized, secure and efficient manner
- **Clinical services and support** help improve clinical care and operational efficiencies to meet your organization's goals.

# A better reality – what to expect

We've helped hospitals and clinicians all over the world to care for their patients by identifying warning signs early so they can intervene sooner. Here's what experts like you have to say:

## Clinical outcomes

"The nurses are getting more and more work. So, having a system like this, allows them to tell which patients they may need to pay closer attention to."

"When a patient gets in trouble, we know before they get in deep trouble. And the best measurement for that is how many patients don't code in our building."

## Improved hospital efficiencies

"The solution has changed the way we work by eliminating potential transcription errors and also providing caregivers immediate access to patients' vital signs reducing delays in treatment time."

"Frequent monitoring with automated EWS allows caregivers and Rapid Response teams to respond earlier."

## A positive patient-centric experience

"Patient safety with zero harm is our number one goal."

"Without a technological solution, we simply would not have enough people to trade patient information, create all those touchpoints, assure that information is shared across the entire patient care experience."

## Increased staff satisfaction

"One of the things our nurses have repeatedly said to us is: 'the more we have technology to monitor our patients and keep them safe, the better care we deliver.' By investing in this technology, we are not only serving the community, but we're serving the clinicians who have chosen to work here with us."

## Clinically proven: our solution in numbers

A prospective clinical study supports the use of Philips automated notification system to provide significant improvements in key patient centered clinical outcomes:



**hospital mortality,**  
including readmissions.<sup>7</sup>



**ICU readmission rates.<sup>7</sup>**



**Severe Adverse Events.<sup>7</sup>**



**Cardiopulmonary  
Arrests.<sup>7</sup>**



**ICU mortality of patients  
transferred to the ICU.<sup>7</sup>**

<sup>7</sup> Subbe et al. Effect of an automated notification system for deteriorating ward patients on clinical outcomes. Critical Care (2017) 21:52. Effect of an automated notification system for deteriorating ward patients on clinical outcomes.

Results from case studies are not predictive of results in other cases. Results in other cases may vary.



## How smart technology and clinical services can meet your needs

Early detection of patient deterioration, and appropriate response, has the potential to improve outcomes, enable greater efficiency and empower clinicians. Together, and with breakthrough innovative solutions, we can simplify data and insight gathering, drive actions to improve care, while giving patients and staff a better experience.





