

**PHILIPS**

General Care

# Early detection Empowered care







# General Care will always be dynamic

Radical changes in healthcare require a fresh approach to meeting the demands of all types of illness. Patients are aging and their conditions are increasingly complex. With these complex conditions, there is urgency to free up acute care beds by monitoring patients in lower acuity settings and even beyond the hospital walls – without fear they will return sicker than before. Technology is most effective when it empowers clinicians to be there for hands-on care.

Being able to quickly recognize and react to the early deterioration signs of a patient’s condition is a must for any clinician working in general care.

Our integrated suite of hospital monitoring devices and wearables, software, professional and support services helps clinicians identify subtle signs of patient deterioration by including features like automated respiration rate readings, automated data capture and configurable alarms and alerts that allow care staff to know when a patient may be at risk of decline.

Go beyond the basic vital signs monitor. Philips offers more choice in monitoring than ever before: periodic, continuous, mobile and wearable. We are committed to developing and offering a solution that provides the necessary tools and capabilities to help clinicians overcome today’s challenges while supplying them with the flexibility to adapt to potential future needs and healthcare trends.

## What our General Care Solution is designed to help clinicians do:



Detect and act on early warning signs of deterioration and identify highest risk patients with integrated analytics.



Monitor patients continuously or periodically with our world-class PIC iX platform on the central station, bedside continuous monitors, vital sign monitors and mobile devices.



Monitor patients in-hospital and beyond hospital walls by supporting clinical-grade wearable biosensors from a variety of manufacturers for a unified patient data view.



Easily use the monitoring devices and enter patient information and notes directly into the hospital EMR system, freeing them from the burden of manual entries and administrative tasks.



Implement an open patient monitoring ecosystem to create an end-to-end treatment pathway with continuity of monitoring in low-acuity settings.



Support clinical staff to anticipate new ways of working and introduce early warning scoring systems clinically and technically.



Flexible acuity monitoring



Early warning scores & analytics



Easy to use solutions



One patient data platform, continuity of data flow and insights through patient care journey



Professional & Support Services





## Patient outcome challenges

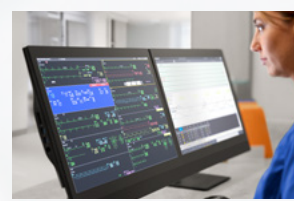
The growing number of older, sicker patients, and patients in general care with chronic conditions, is a mounting challenge for today's healthcare providers. The high patient to health worker ratio is only adding to the work pressure put on clinicians.

The heavy workload and complexity of cases can potentially result in missed early signs of deterioration, possibly leading to multiple adverse events and patients returning to critical care settings. Late recognition of deterioration is associated with worse outcomes, including mortality.<sup>1</sup>

## What solution customizations can help with this problem?



EarlyVue VS30 patient monitors



IntelliVue Guardian/PIC iX platform early warning scoring and analytics



IntelliBridge Enterprise



CareEvent or CareAssist


## Patient outcome benefits


**“The early warning scoring system helps us better identify patients at risk and, most importantly, respond to those patients earlier.”<sup>2</sup>**


Mary Jo LaPosta, MS, PhD, RN, Senior Vice President, Saratoga Hospital




### How our General Care Solution has the potential to impact patient care

 Automatic monitoring of vital signs can quickly help identify signs of deterioration with the use of trusted algorithms and advanced analytics.

 The ability to identify and verify trends and significant deviations in vital signs allow clinicians to know immediately when a patient may be at risk of decline.

 Push notifications and clinical context sent directly to care staff phones or tablets allowing for quick action.

 Our PIC iX platform supports centralized surveillance capabilities that allow alarming for at-risk patients using spotcheck or continuous monitoring, depending on the need. **When used with VS30, PIC iX provides a central view of vital sign records, instead of central alarming.**

### The benefits

Philips General Care solution alerts nurses to deteriorating patients which allows them to quickly respond to adverse events. Make sure your patients get the right care, starting right from admission.

All patient vital signs are automatically captured in one place to provide Early Warning Scores (EWS) and are being monitored at the central station. With EWS, clinicians can quickly identify patients at risk.

Nurses receive notifications when a patient is at risk, not only on the bedside monitor, but also on their mobile devices.

With the knowledge of continuous monitoring and deterioration notifications, nurses are empowered to make confident care decisions.<sup>1</sup>





## Staff experience & retention challenges

Nurses today need to deal with a demanding workload, which includes patient care at the bedside, response to urgencies, interruptions and administrative activities. This high workload, in combination with the high patient to health worker ratio, can often lead nurses to burnout<sup>3</sup>. On top of that, it is common for some staff to have limited experience with necessary skills due to this area having rather high turnover.

We know that clinicians and nurses are motivated by patients, not by technology and automated solutions, so our General Care Solution won't get in the way and must support clinicians' day-to-day care and free them from the burdens of manual entries and some administrative tasks.

### What solution customizations can help with this problem?



EarlyVue VS30 patient monitors



IntelliVue Guardian Software & Mobile Client/PIC iX platform



CareEvent or CareAssist



Professional Services & prioritizing and relaying alarms

## Staff experience & retention benefits

The solution has the potential to change the way clinicians work by reducing transcription errors and also providing caregivers immediate access to patients' vital signs - reducing delays in treatment time.<sup>4</sup>



### How our General Care Solution has the potential to impact staff experience



Brings notifications to the bedside: display scores and recommendations with customizable Early Warning Scoring protocols show up right on the VS30.



Clinicians can auto-populate user and patient demographics with a barcode scanner, allowing documentation of full patient assessments and easy exporting of document image files.



The VS30 has an intuitively designed user interface monitor with the option to update and configure features and measurements to reflect user workflow.



Supports automatic vital sign collection, including continuous respiration rate readings and automated data capture so nurses can keep their focus on the patient.

### The benefits

Our general care solutions are designed to eliminate the time, effort and delays of manual entries and administrative tasks, while an creative user interface makes accessing data quick and simple.

Patient data automatically flows continuously through the hospital's EMR system to the bedside monitors and central station. It is possible to identify and admit patients with no manual entry efforts or delays.

Vitals can be automatically collected so nurses can easily capture and send observations directly to the EMR, minimizing manual transcriptions and long delays in between reading and reviewing. Detailed care reports are also easily produced to support handovers.





# Hospital efficiencies benefits

“The more we have technology to monitor our patients and keep them safe, the better care we deliver. By investing in technology, we are not only serving the community, but we are serving the clinicians who have chosen to work here with us”  
CNIO

## Hospital efficiencies challenges

The high number of patient admissions and the demand for hospital beds can make it challenging for caregivers to deliver care efficiently. Specifically, the urgency to free up acute care beds can potentially result in higher acuity patients moving into general care, where usually vital sign trends are not continuously or centrally monitored and early signs of deterioration could be missed.

As a consequence, resource constraints have triggered early discharge initiatives aimed at reducing hospital readmissions<sup>5</sup>, so that they can focus their clinical services on patients that are at higher risk.

## What solution customizations can help with this problem?



**IntelliVue Guardian Software/PIC iX platform early warning scoring and analytics**



**IntelliBridge Enterprise**



**CareAssist**



**Professional Services**

## How our General Care Solution has the potential to impact hospital efficiencies



The ability to interface Philips systems with the hospital or clinic’s information systems or EMRs



Clinicians can remotely access patient data and/or see patient trends with monitor-to-monitor viewing, creating a unified patient view and continuity in the moments that matter.



The capability to quickly and easily assign patients to sensors and equipment.



The capability to admit and discharge patients via mobile devices.



Secured text messaging allows care teams to communicate with each other using the CareAssist mobile application



Surveillance capabilities allow access to data that aids in decision-making, which helps in making staffing decisions and establishing best practices

## The benefits

With our suite of General Care solutions, data flows effortlessly between sensors and hospital systems into our world-class PIC iX platform, creating a unified patient view and continuity in the moments that matter – even beyond the hospital walls. This gives clinicians the opportunity to receive actionable and timely information about a patient before, during and after hospitalization which creates efficiencies and optimizes the time spent on care delivery.

Easy access to accurate data enables clinicians to coordinate care with a high level of trust.

Care provider mobility tools may enhance clinician communication by providing event notifications and patient data on a mobile device, as well as sharing data with EMR and HIS.

The integration of products and services (EMR/HIS/ADT) automate delivery of data in a standardized, secure, efficient manner.

If used correctly, the Philips patient deterioration solution may be a cost-effective tool to help reduce hospital length of stay.<sup>2</sup>





# Wearables and Open Ecosystem

## Our first steps

Philips is moving away from a closed system and starting with tracking respiratory rate in collaboration with various manufacturers like Healthdot, SmartQare and Respiree. We're already

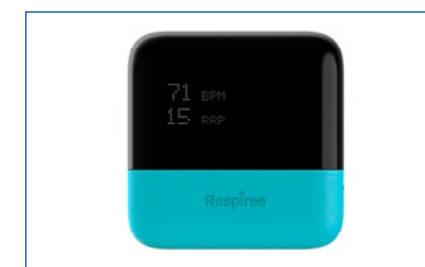
establishing an open ecosystem that will enable continuous flow of vital signs data and open communication between sensors and systems – even beyond the hospital walls.



Healthdot (by smartQare)



viQtor (by smartQare)



Respiree

Check with your local sales representative for availability of products in your market.

Considering all the challenges that hospitals and clinicians face today, their role is rapidly changing.

Clinical-grade wearable biosensors from a variety of manufacturers have emerged as a solution to address these challenges - specifically to address monitoring of mobile patients in hospital, as well as to extend monitoring to home or rehabilitation locations to potentially help solve capacity issues.

If devices fail to talk to each other throughout an entire care setting, the flow of data will get disrupted. At Philips we're moving away from proprietary standards and closed systems to an open patient monitoring infrastructure to create an end-to-end treatment pathway that has a unified view of patient data from admission to discharge and beyond.



## What we can do now with our partnerships

- Enable best fit solution for different use cases, patient groups and IT needs
- Support a range of vital sign parameters and target different conditions, including multiple form factors, connectivity & analytics options
- Provide opportunities to leverage existing Philips interoperability infrastructure





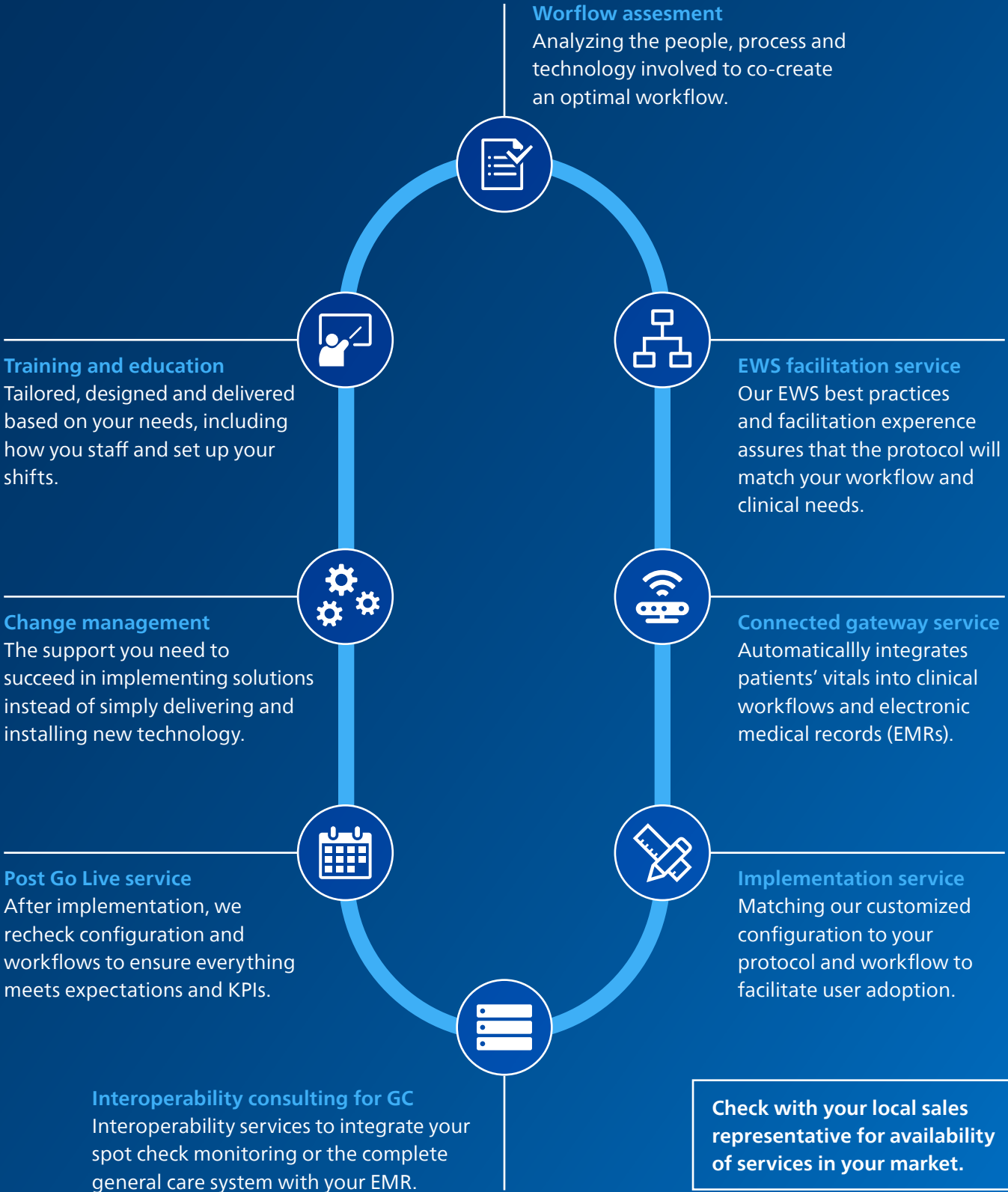
# Your trusted partner in deployment & optimization

It can be challenging to deploy tools and processes across an organization. Philips services can help your team learn about and implement these tools and processes, and build a strategy that takes you to the next level of patient care.

Our services go beyond technology training to fully support the people responsible for addressing serious adverse events.

Experienced clinical specialists help you acquire, develop and improve your expertise and navigate significant change for long-term success. Our scalable services are designed to support you in reaching your goals, no matter how complex your organization, and no matter what your starting point.

## General Care Professional Services include:



Check with your local sales representative for availability of services in your market.



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