



# GOING ONE STEP FURTHER FOR PATIENTS AND NURSES

Helping Reduce Manual Vital  
Signs Documentation to  
Prioritize Value-Added Care

## OVERVIEW

### CUSTOMER

A 636-bed specialty care and teaching hospital

### CUSTOMER PROFILE

This large, specialty care and teaching hospital has long been a model of nursing efficiency — even before connecting a single vital signs device to the EMR. Early on, they reduced lag time between vitals acquisition and documentation by placing mobile workstations in each patient room and requiring clinicians to enter vitals before leaving the room during each round. In 2016, the hospital took the next step in Lean methodology by connecting **Welch Allyn Connex** Vital Signs Monitors to the EMR in its medical/surgical units.

### KEY BUSINESS OUTCOMES

This customer knew time savings due to vital signs device connectivity was well documented, but wanted to extend the value one step further by asking a simple question:

What could our nurses do more of if they spent less time documenting vital signs?

That's why the hospital embarked on a study to determine the impact of vitals connectivity in two areas:

1. Quantify documentation time savings for nursing staff
2. Identify how nurses spend their time differently as a result of those time savings



## THE FIRST STEP: THE VALUE OF TIME SAVINGS

By measuring time spent on vitals capture and documentation pre- and post-connectivity, the hospital determined that CNAs and RNs saved 59 seconds per vitals session by sending the data directly from the monitor to the EMR — helping reduce the documentation function from the workflow. This represents a 34% reduction in time spent capturing and documenting vital signs.<sup>1</sup>

### OVER 12 MONTHS, THIS COULD RESULT IN:



6 minutes per  
caregiver, per round



36 caregiver hours  
per day



13,208 caregiver  
hours per year

## ONE STEP FURTHER: USING TIME SAVINGS TO PRIORITIZE VALUE-ADDED CARE

Beyond measuring the volume of time saved, this customer wanted to determine how nurses spent their time differently as a result of the device integration.

A work-sampling study was undertaken utilizing the **Time Study RN** methodology, in which nurses recorded the type of activity in which they were engaged at random times throughout their shifts. The data showed that, after connecting the vital signs devices to the EMR, nurses spent 2.5% more time on value-added care activities.

- That adds up to 18 minutes more per nurse, per shift to spend on direct patient care.
- As an organization, it represents a full quartile of improvement compared to the national benchmarking database.

## VALUING NURSES' WELLBEING

Beyond these powerful impacts on patient care, removing documentation from the workflow also led to significant benefits related to staff satisfaction.

This customer succeeded in proving the time-savings benefits of connecting vital signs devices to the EMR. The organization also went one step further and proved the power of reallocating time saved to value-added care activities.

**Contact your Baxter representative or visit [hillrom.com/cvsm](https://hillrom.com/cvsm) to learn more.**

**Rx only.** For safe and proper use of the products mentioned herein, please refer to the appropriate Operator's Manual or Instructions for Use.

### **Baxter.com**

Baxter International Inc.

### References

1. Vitals Sign Time Study and Nursing Unit Assessment Report. Rapid Modeling Corporation. July 31, 2017.

Baxter, Connex and Welch Allyn are trademarks of Baxter International Inc or its subsidiaries.

Time Study RN is a trademark of Rapid Modeling Corporation.

US-FLC46-220012 (v2.0) 01/2025