



## CASE STUDY

# Improving Patient Safety, Nursing Efficiency and ROI at Saratoga Hospital

## Introduction

Albany Med Health System is the largest and only locally governed academic health system in northeastern New York. Saratoga Hospital, an integral part of this system, is a 171-bed acute care, Magnet®-designated hospital (since 2004) and has an "A" grade for patient safety by the Leapfrog Group—an elite recognition earned by only 30% of U.S. hospitals.<sup>1</sup>

## Challenges

Health systems are constantly looking for ways to improve patient care and safety while streamlining clinical workflow and optimizing revenue—with technology often playing a key role in that effort. But even the latest advancements can come up short, particularly when it comes to dosage errors, technology workarounds and inefficiencies. Saratoga Hospital needed a partner to help drive informational efficiencies across their entire facility, aiming to improve patient safety, clinical efficiency and ROI benefits.

## Goals of Implementation

Saratoga Hospital partnered with B. Braun to implement 306 Infusomat® Space® Large Volume Pumps with DoseTrac® Infusion Management Software & Analysis Service and EHR interoperability at their 171-bed hospital—allowing them to track in real time exactly how the pumps were being used across the facility.

Through smart pump EHR interoperability, they hoped to see a reduction in infusion-related adverse events, time spent programming infusions, and inventory and reallocation of pumps across various departments, all while increasing revenue through more accurate documentation and captured outpatient infusion charges.

Even though smart pump EHR interoperability is gaining popularity, documented outcomes have been limited to date. Saratoga Hospital and B. Braun partnered to conduct a prospective research study to evaluate the impact of interoperability on patient safety, nursing efficiency and ROI—with data collected both pre- and post-interoperability.

B. Braun provided DoseTrac® Analysis Services, which include comprehensive, in-depth analytics of infusion KPIs, an action plan to achieve targets and sustain success, and measurable outcomes for performance benchmarking, credentialing and publication.

## Results

After successfully implementing Infusomat® Space® Large Volume Pumps, DoseTrac Infusion Management Software & Analysis Service, EHR interoperability and hospital-targeted interventions, Saratoga Hospital achieved:

97% Sustained Drug Library Compliance<sup>2</sup>

↓ 27% Reduction  
in Infusion-Related  
Adverse Events<sup>3</sup>

↓ 77% Reduction  
in Programming Time<sup>3</sup>

↓ 49% Reduction  
in Asset Management Time<sup>3</sup>

↑ 25% Increase  
in Outpatient Infusion  
Charge Capture<sup>3</sup>

Learn more at [bbraunusa.com/outcomes](https://www.bbraunusa.com/outcomes), or scan the QR code.



### References

<sup>1</sup> Saratoga Hospital. Two Albany Med Health System hospitals get high marks for patient safety [Press Release]. 2022. <https://www.saratogahospital.org/News/two-albany-med-health-system-hospitals-get-high-marks-for-patient-safety> <sup>2</sup> B. Braun Data on File. <sup>3</sup> Bartos D, Vitoux RR, Schuster C, et al. Outcomes from a smart infusion pump and electronic health record integration: improved patient safety, nursing efficiency and return on investment. *Journal of Informatics Nursing*. 2022;7(3):13-19.