

Drive Sustained Reductions in Length of Stay & Excess Days

Reducing length of stay allows health systems to create effective capacity and generate tens of millions of dollars in financial value each year – without adding staff.

Industry Challenge: Early discharge planning is the most significant factor in reducing excess days, and for complex discharges, proactive management of discharge barriers is especially critical. But our care progression models were never designed to focus on discharge, and the EHR was not built with these best practices in mind. Without a simple, standardized approach to manage accountability, hospitals struggle to sustain improvements. This results in inconsistent operations without resilience or repeatability.

Qventus Solution: Qventus combines AI, behavioral science, and process redesign to hardwire discharge planning best practices. The platform automates key steps for discharge planning, predicts barriers to discharge and orchestrates their resolution, and enables leaders to effectively manage accountability. Using a proven deployment methodology, Qventus' Expert Services team of hospital and performance improvement leaders works with frontline teams to co-design resilient processes and drive change management. Health systems can reduce excess day costs, create effective capacity for new patient volume, and enable frontline teams to practice at the top of their licenses.

Select Partner Results

↓ **Up to 0.8 day**
decrease in LOS

↑ **35 effective beds**
created for a health system

↑ **\$10M+**
annual value per partner

Discharge Planning: Hardwire Early Discharge Planning & Accuracy

Automate Key Steps for Discharge Planning with Process Automation & AI

Discharge planning with EHR boards and existing care progression models is manual and inconsistent. With missing or inaccurate estimated dates of discharge (EDDs) and long lists of open orders, care teams lack the tools and processes to consistently plan for discharge early and identify barriers.

Analyzing millions of data points, Qventus uses process automation and AI models to auto-populate predicted EDDs and dispositions if the information is missing, automatically suggest updates throughout the patient stay, and predict barriers to discharge. With simple, frictionless workflows, Qventus makes it easier than ever for care teams to proactively plan for discharge, helping teams capture 40% more patients for discharge and reduce clicks by 80%.

PATIENT	EDD	CARE TEAM	LOS (DAYS)	EDD	CLINICALLY READY	DISPOSITION	BARRIER	NOTES
W. Harvey 50 M 959 18 32	5B-501	RN Elliot Reed MB Harry Wesley	1	WED 11/04	To review	SNF	Autopilot EDD Autopilot Dispo	Add notes...
N. Griffin 76 M 849 20 11	5B-502	RN Carla Espinosa MB Christopher Turk	2	TUE 11/03	Possibly today	Home	Transportation Suggest: 11/03/2021 Suggest: SNF PT Eval	Add notes...
B. Farve 65 M 482 00 11	5B-503	RN Carla Espinosa MB Christopher Turk	4	WED 11/04	Yes	Home	Discharge Score: High	Q-Rit Suggests: Add "PT Eval" Barrier Order #02264902 was placed on 11/01/20 @ 3:28pm Add SUGGESTION
E. Reed 67 F 292 44 10	5B-504	RN Carla Espinosa MB Christopher Turk	3	TUE 11/02	Yes	Acute Rehab		Echo Pre-auth

Manage Accountability at Scale with Statistical Process Analytics

To ensure new behaviors stick, Qventus uses statistical process analytics to help leaders reinforce best practices across units. When rounding processes begin to slip, the platform uses statistical engines to automatically escalate issues to leadership. Incorporating behavioral science techniques, Qventus surfaces coaching opportunities and kudos that help leaders intervene in real time and reward top performers.

	Unit	Metric	Value	Statistically Significant Change	Contribution to Q Score
1	4A	Barrier captured before 2nd midnight	24%	↓ -26%	-5.4
2	7B	EDD updated before 2nd midnight	25%		-2.3
3	4C	Dispo updated before 2nd midnight	29%		-1.8
4	7A	EDD updated before 2nd midnight	33%		-1.4
5	4C	Discharged on EDD	3%	↓ -8%	-1.1

Barrier Management: Resolve Barriers through Intelligent Orchestration

Although managing discharge barriers early is critical to reduce excess days for complex discharges, ancillary teams often lack insight into discharge priorities, resorting to working through order worklists on a first-in, first-out basis. As a result, care teams spend many frustrating hours manually calling to chase orders to completion.

Not only does Qventus predict barriers to discharge, it also uses machine learning to prioritize orders for ancillaries and automates workflows to simplify collaboration. Through discharge priority queues and real-time prescriptive "nudges" tailored to workflows, ancillaries gain visibility into discharge priorities and can coordinate with the care team in real time. This reduces time spent chasing barriers and decreases texts and emails that interrupt daily workflow.

ICU Stepdown: Optimize Stepdown to Create Effective Capacity

Up to one-third of ICU patients are ready for stepdown 8-12 hours before the transfer order is placed, which can lead to upstream holds in the OR and ED and prolong length of stay.

Using machine learning models, Qventus identifies patients for stepdown earlier so that ICUs can create effective capacity. The platform captures 25% more patients for stepdown compared to care teams alone and assesses stepdowns as accurately as a trained intensivist conducting review. With automated, real time "nudges," Qventus surfaces stepdown opportunities and orchestrates teams to resolve predicted capacity constraints.

Curated Analytics: Pinpoint Greatest Opportunities for Reducing LOS

Qventus leverages unique analytics around process metrics, engagement, and outcomes to help health systems measure operational impact and identify key opportunities for continuous improvement. Using advanced statistical models, Qventus controls for patient, hospital, and seasonal variables to evaluate attributable length of stay decreases, patient day reductions, and effective capacity created. Furthermore, its robust data around top barriers driving excess days allows health systems to identify workflow adjustments and new process changes in a targeted, data-driven manner never before possible.

"Because it prioritizes work intelligently, Qventus makes physicians more efficient in seeing patients. At the end of the day we can have greater confidence that things were done correctly."

Anthony Fangman, MD

Division Chair of Hospital Medicine
Saint Luke's Health System

"Nurses see patients discharge earlier – the changes are very visible. Qventus is rewarding, effective, and brings joy to people's work. We can focus again on taking care of patients."

System Director

Midwest Health System

Reduce Length of Stay with Qventus

Visit qventus.com/inpatient or contact demo@qventus.com