Drive Sustained Length of Stay Reductions

Reducing LOS allows health systems to create effective capacity and generate tens of millions of dollars in financial benefit each year—without adding staff.

The Challenge: Reducing length of stay is a complex problem that is difficult to address with the EHR alone. With manual, inconsistent discharge and stepdown processes, teams only have so much bandwidth to manage the hundreds of moving parts needed to drive care plans forward. Barriers to discharge and delayed stepdowns slow patient progression and prolong length of stay, which erodes margins, constrains capacity, and leads to burnout and frustration at all levels of the organization.

The Solution: The Qventus Inpatient Solution uses AI and behavioral science to identify and resolve barriers upstream—without adding to frontline burden. To drive change management and operationalization, Qventus Expert Services provide on-the-ground support and implement a proven length of stay reduction methodology. By combining technology with best practice strategies, health systems can reduce excess days, decrease costs, create effective capacity for new patient volume, and enable frontline teams to practice at the top of their licenses.

Select Partner Results

100% of inpatient partners achieve reductions in LOS

- Up to 0.8 day decrease in LOS
- 35 effective beds of capacity created
- $10-100M annual financial impact for the average health system

Discharge Optimization: Identify & Resolve Barriers Upstream

Predictive Discharge Planning Identifies Issues Days in Advance

Multidisciplinary discharge rounds (MDRs) with EHR boards are manual and inconsistent. With missing or inaccurate estimated discharge dates (EDDs) and long lists of open orders, barriers are uncovered too late and delay discharge.

Qventus uses AI models to process millions of data points to predict EDDs, disposition, dischargeability, and barriers to discharge so that teams can quickly identify and prioritize issues during MDRs. With Qventus, teams capture 40% more patients for discharge and reduce clicks by nearly 80%.
Resolve Barriers through Automated Orchestration with Ancillaries
Without insight into discharge priorities, ancillaries typically work through order worklists on a first-in, first-out basis, resulting in the care team spending many frustrating hours manually calling to chase orders to completion.

Qventus 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 means care teams need to track fewer follow ups and spend less time chasing barriers.

Manage Accountability at Scale with Statistical Process Analytics
To ensure new behaviors stick, Qventus uses statistical process analytics to help leaders enforce best practice 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.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Metric</th>
<th>Value</th>
<th>Statistically Significant Change</th>
<th>Contribution to Q Score</th>
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</thead>
<tbody>
<tr>
<td>4A</td>
<td>Barrier captured before 2nd midnight</td>
<td>24%</td>
<td>-26%</td>
<td>-5.4</td>
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<tr>
<td>7B</td>
<td>EDD updated before 2nd midnight</td>
<td>25%</td>
<td>-2.3</td>
<td>-2.3</td>
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<tr>
<td>4C</td>
<td>Dispo updated before 2nd midnight</td>
<td>29%</td>
<td>-1.8</td>
<td>-1.8</td>
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<tr>
<td>7A</td>
<td>EDD updated before 2nd midnight</td>
<td>33%</td>
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<td>Discharged on EDD</td>
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</table>

Track Attributable Outcomes & Drive Continuous Improvement
Qventus outcomes and barrier insights allow health systems to measure attributable impact and prioritize new interventions for continuous improvement. Qventus uses advanced statistical modeling to control for patient, hospital, and seasonal variables to evaluate attributable length of stay decreases, patient day reductions, and effective capacity created. With detailed analytics around top barriers driving excess days, the Qventus Expert Services team partners with clients to identify high priority opportunities for continuous improvement, creating new interventions or suggesting process changes to target key barriers.

ICU Stepdown: Optimize Stepdown to Create Effective Capacity
With today’s manual processes for evaluating stepdown readiness, 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 teams can resolve barriers to stepdown and create capacity. The platform captures 25% more patients for stepdown compared to care teams alone, using real time “nudges” to surface stepdown opportunities and orchestrate teams to resolve predicted capacity constraints.

"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."

Dr. Anthony Fangman, MD
Division Chair of Hospital Medicine
Saint Luke’s Health System

“Our nurse managers are telling me that finally, this is a technology that makes their lives easier.”

James Hereford
President & CEO
M Health Fairview

Reduce Length of Stay with Qventus
Visit qventus.com/inpatient or contact demo@qventus.com