

Increase Utilization, OR Access, and Overall Perioperative Performance

Real-time, AI-enabled solution delivers OR capacity management tools for perioperative leadership, enables better OR access, and drives continuous performance excellence across the perioperative suite.

THE CHALLENGE

To accomplish the goal of utilizing operating rooms most effectively, perioperative leaders must manage having the rooms and staff available to meet surgical demand without leaving ORs sitting unused. However, perioperative leaders lack the consistent, reliable, and up-to-date information that would enable them to identify opportunities to improve utilization. Achieving that delicate balance requires integrating such complex variables as operating room block allocation, surgeon schedules and preferences, hospital policies, staff schedules, and patient throughput.

Further complicating the challenge is that scheduling staff, allocating surgical blocks, and making other complex critical resource decisions are done far in advance of booking cases. And with no visibility into the inherent variability that occurs daily due to add-ons, delayed or late-running cases, and cancellations, there's an additional risk that available resources will either exceed the day's demand or fail to meet it. As a result, patient care and throughput can suffer, staff workloads can become imbalanced, hospitals may lose revenue due to case leakage if surgeons that find themselves blocked out of OR time choose other available facilities, and costs can spiral due to overtime or other factors.

THE SOLUTION

Hospital IQ's Perioperative solution applies system-specific policies, machine learning, and optimization algorithms to each client's unique perioperative data to forecast OR usage in real-time and deliver data-driven recommendations that increase utilization of the OR. In addition, real-time insights into daily schedule variances and patient throughput in PACU allow bottlenecks to be eliminated before they occur.

The result is optimized OR capacity that better meets true surgical demand, improved room and staff utilization, better surgeon satisfaction, streamlined patient throughput, and continuous identification of opportunities for improving overall performance.

“ Hospital for Special Surgery is relentlessly focused on advancing quality, efficiency, and access. Our use of Hospital IQ creates roughly 7 – 10% flex in the system through time released, **providing our surgeons more opportunities to continue extending the boundaries of what is possible in musculoskeletal care.**

Scott DeNegre, PHD, Senior VP, Operational Excellence and Chief Performance Officer

BY THE NUMBERS

 HOSPITAL FOR
SPECIAL SURGERY

500+ hours of block time
reallocated weekly

55 cases booked weekly
in released time

29 days average release time
for unneeded block

 University Hospitals
Cleveland Medical Center

5% increase in
OR utilization

20 day average lead time
for released blocks

25+ cases performed each
week in released time

 Mount
Sinai
South
Nassau

8% increase in
OR utilization

12% increase in
block utilization

20 of data collection and
analysis eliminated weekly

INTELLIGENT AUTOMATION FOR HEALTHCARE

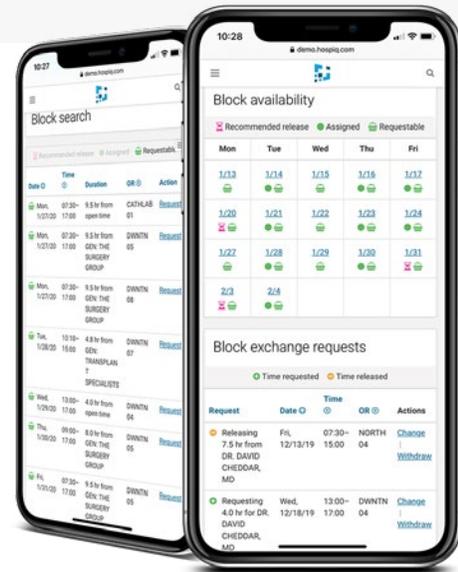
Hospital IQ gives perioperative leaders, surgeons, and frontline staff accurate forecasts and the real-time day of insights they need to make better, faster decisions to improve OR utilization, patient throughput and overall perioperative performance. Our solutions result in sustained benefits for hospitals and health systems dedicated to improving their operations – for the benefit of the entire health system as well as each patient.

THE BENEFITS

IMPROVE ACCESS TO THE OPERATING ROOM: Hospital IQ streamlines access to the OR first by uncovering hidden OR time by predicting which blocks are most likely to go unused and prompting blockholders to release them, giving other surgeons sufficient time to fill those valuable primetime slots. The system then enables surgeons to readily find and request available time that best fits their schedules through an open and transparent marketplace. Finally, the system automatically prioritizes these requests based on configurable policies, which ensure departments receive the maximum benefit from this recovered OR time. By creating transparency into available OR time and providing tools that enable surgeons to get OR time when they need it, more cases can be booked within existing OR time and surgeon engagement increases.

STREAMLINE PATIENT THROUGHPUT: Effectively managing daily patient throughput is a critical factor in maximizing OR utilization. Hospital IQ integrates and communicates schedule deviations like add-ons, delayed and long-running cases, cancelations, and capacity issues in PACU. With real-time visibility and automated notifications of potential problems before they occur, leaders and frontline staff are engaged to mitigate these situations before they impact utilization and efficiency or limit the number of cases that can be performed.

OPTIMIZE THE BLOCK SCHEDULE: Hospital IQ applies artificial intelligence and historical utilization data to provide automatic block reallocation recommendations. The system makes strategic add, remove, or modify block recommendations for specific services, practices, and surgeons to help drive OR volume, optimize block schedule performance, and eliminate



the task of sifting through reports to attempt to identify the changes that will have the biggest impact.

BUILD A PARTNERSHIP FOR DIGITAL TRANSFORMATION: To support change management, Hospital IQ's team of healthcare operations and clinical workflow experts work closely with each client to ensure they achieve their specific operational improvement goals. Beginning with initial implementation and continuing through the optimization process, Hospital IQ works directly with key stakeholders to align priorities and understand current processes and workflows. Through this partnership, a plan is developed that aligns to your specific goals, empowers leadership to own the process, and engages stakeholders from all teams to willingly join your organization's new culture to unlock and sustain capacity and performance improvements.

THE RESULTS

With the help of Hospital IQ, hospitals and health systems of all sizes have increased OR utilization and prime time case volume, optimized block utilization, improved daily perioperative throughput, developed and implemented new service-line management models, and reduced administrative workloads, all resulting in additional margin for the hospital.

Strategic partnerships with Cerner and Allscripts, as well as participation in Epic's App Orchard, enable seamless integration, minimal IT demands, and a quick time to value.

SEE IT IN ACTION

To see our AI-based operations management platform in action and learn how it can help sustain operational excellence for your perioperative operations, email info@hospiq.com or visit www.hospiq.com.