

Streamline Operating Room Management



Analyze the Past

Comprehensive reports and scorecards of key OR performance indicators in real-time

Predict the Future

Proven artificial intelligence and predictive analytics tools to empower OR staff to do more with less

Leap Rail artificial intelligence resulted in a 70% reduction in overall scheduling inaccuracy.

Harvard Medical School
Journal of Medical Systems

LEAP//RAIL

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Artificial intelligence is transforming everything we do and operating rooms are no different. Industry leaders today expect their tools to help them predict into the future and the dynamic OR setting is a natural candidate for this transformation to deliver amazing results.

Surgical Case Duration Accuracy

Length of a surgical case is the most important data-point in effective planning of work streams in an operating suite and yet most organizations have very poor accuracy in their predictions. As published in a recent **Harvard Medical School** study, Leap Rail artificial intelligence algorithms decrease surgical case duration inaccuracy by over 70%. This improvement enables OR managers to effectively create additional capacity without new capital investment and significantly improve their utilization of existing resources. For a typical 20 room OR, leveraging Leap Rail results in \$3,000,000 additional capacity creation annually.

Block Utilization Predictions

Leap Rail gives surgeons and their office staff predictions on utilization of future blocks. Using this information, they can proactively manage their blocks instead of finding out they missed the target utilization weeks after the fact. By combining AI predictions and smart mobile notifications, surgeons are able to improve their block utilization by 20%.

Leap Rail AI engine also gives OR managers recommendations for future block allocation for surgeons based on their actual case load, even for surgeons without existing blocks bringing a much needed objectivity to regular block review meetings.



Block Release Management

Block Cardio

Block	Cardio	Notifications <input type="button" value="Unsubscribe"/> We will notify you if the block is released and has at least 120 available minutes. Minimum Availability <input type="text" value="120"/>
Room	ML 5	
Date	2018-09-24	
Utilization	53.3%	
Auto Release Window	1 business days (cutoff 17:00)	1 subscriber
Auto Released	No	
Voluntary Release Window	14 days (cutoff 00:00)	
Voluntary Released	No <input type="button" value="Release"/>	
Providers	Shanda Carr James Brawley Brant Payne	
Credited Cases	2018-2670007 2018-2670008	

Leap Rail provides a web-based block release management system that enforces automatic and voluntary block release policies and drives physician engagement for making OR time accessible in a timelier fashion.

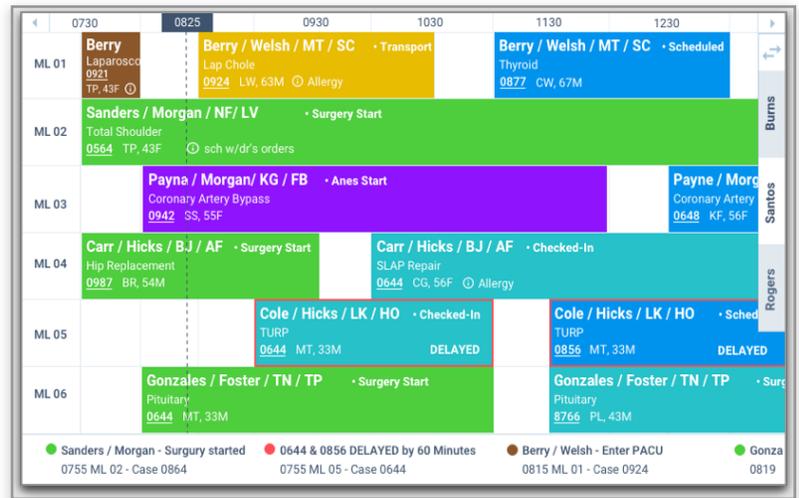
Schedulers and surgeons interested in particular blocked times also have the ability to request notifications if their desired time is released. Leveraging this system, it is possible to more effectively fill up OR time that might get released through automatic and voluntary triggers.

Streamlined Cross-Team Communication

Timely communication among all stakeholders is the cornerstone of delivering a safe patient experience and maximizing operational efficiency.

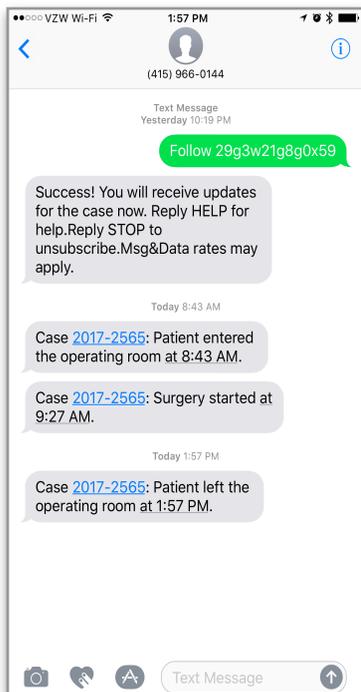
Leap Rail brings AI enabled, accurate, and real-time insights to life through an intuitive visualization layer that has custom views for all the stakeholders, from schedules to PACU nurses and everybody in between.

In addition, through use of smart labels, automated role based mobile notifications, and a news ticker of actionable recommendations, you will be able to deliver more with less.



Workflow automation enabled by Leap Rail AI engine can eliminate many processes that require staff intervention. For example, Leap Rail allows for creation of rules to send a text message to surgeons if their first case is delayed so they can stay in their clinic longer (a big surgeon satisfaction driver), or to page an RNFA or SA when a new case is assigned to them to review the case details.

Utilizing this broadcast model of information dissemination, teams can cut down on many unnecessary phone calls and inquiries. Doing so, not only minimizes delays and mistakes that could lead to case cancellations, but also results on labor savings. A typical OR could eliminate 25% of preventable cancellations and realize labor savings of over \$300,000.



Patient's Family Notifications

Instead of having patients' family glued to the monitors in waiting area, they can get automated text messages when their loved one's case progresses (for example when surgery finishes, or they enter PACU) freeing them to roam about without anxiety, a big patient satisfaction driver. In addition, staff can trigger manual text messages for example to have them meet the surgeon as appropriate. At a typical 20 room OR, this functionality results in soft labor savings of at least one RN headcount by freeing up nurses that perform this function today.

Pre/Post & PACU smart boards

Through Leap Rail AI predictions, Pre/Post and PACU managers will have a complete and up-to-minute picture of their workload with accurate patient arrival and departure predictions based on latest data on case progressions that enables them to proactively manage patient flow and cut down on delays.

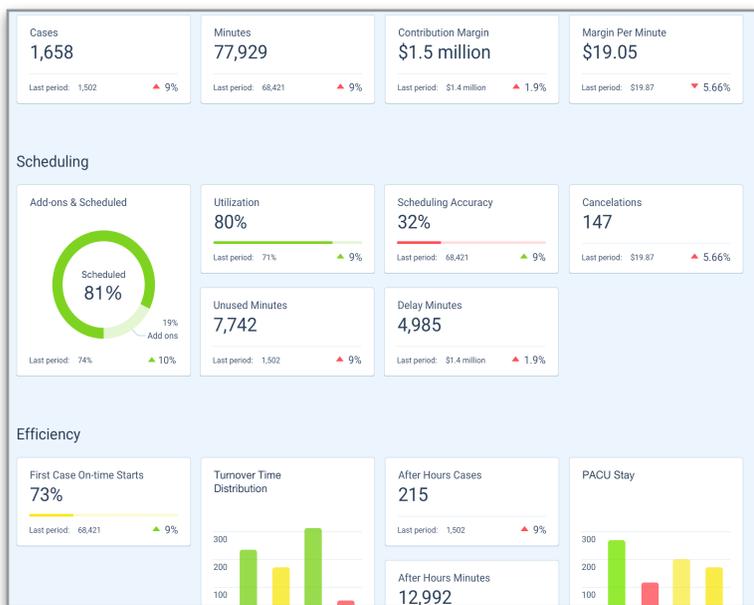
Vendor Management

Everyday countless hours are wasted procuring instruments and implants from manufacturers. Leap Rail Vendor Management module allows for all those involved, OR Staff, Sterile Processing, and Vendor Representatives, to communicate seamlessly and easily via a common portal.

Like all other Leap Rail experiences, Vendor Management module is accessible from anywhere on any desktop and mobile device. The same AI predictions for accurate case start times are extended to vendor representatives so they know exactly when they might be needed in the OR.

The clear and automatic documentation of interactions with vendor representatives by OR staff creates an accountable and audit-able trail of information which ultimately not only saves time by eliminating the need for manual phone calls and text messages but results in fewer mistakes, delays, and avoidable cancellations.

Automated and Real-Time Analytics



“You can’t manage what you can’t measure” is the classic quote from management guru, Peter Drucker. It is also true that if generating actionable reports is hard, time-consuming, or delayed, we are more likely not to make data-driven decisions.

Leap Rail gives you a complete picture of operating suite activities by automatically measuring and trending a variety of key performance indicators across dimensions ranging from case volume, contribution margin, scheduling accuracy, suite and block utilization, after-hours cases, and much more so you can easily identify opportunities for improvement. Each of these reports can be drilled down into on dimensions such as day of week, facility, surgeon, and even patient ZIP Code and payor.

These reports are automatically created and readily available the same day, so your team can make timely adjustment and drive improvements. The system will also produce report cards for each surgeon, anesthesiologist, scrub nurse, and circulator summarizing their performance relative to the rest of suite.

In most organizations one or more nurses or analysts oversee generation of these reports manually. Using Leap Rail, not only you are saving on labor costs devoted to such activities, you are also getting the reports the same day instead of having to wait weeks for them and you can be confident there were no human errors in calculations.

Case Cost Analysis

Effective management of costs is crucial in today's healthcare environment. This need is no where more pronounced than in the operating room. Managing cost of supplies, implants, and pharmacy are a significant driver in overall financial health of operating room.

Leap Rail platform not only effectively captures all the costs associated with surgical cases, down to the item level detail, but also summarizes this massive amount of data into actionable insights for the OR management.

Leveraging Leap Rail, supply

chain managers and OR administrators can see variances among facilities and surgeons performing the same procedure and effectively drive standardization and cost management initiatives. All approved changes then can be effectively and automatically applied to preference cards using the platform to complete the process.

By bringing volume, cost, quality, and contribution metrics into one view, Leap Rail allows for objective and holistic analysis of improvement opportunities, both clinically and operationally.

Scheduling Decision Support

For many organizations, management of OR booking requests is an everyday challenge. Phone calls and faxes are error-prone, slow, and can get lost in the shuffle of the operating room. Lack of an audit trail makes identifying deficiencies and enforcing policies unattainable.

With Leap Rail scheduling decision support, a surgeon's office can complete an OR booking request designed to capture all the information your schedulers will need. They are also able to attach relevant documents such as H&P, consent, etc to the request.

Without seeing the full OR schedule, Leap Rail gives surgeon's office the ability to propose possible times for the surgery from a list of available OR times, incorporating currently scheduled cases, block allocations, and other relevant business logic.

The OR schedulers receive all the booking requests in one centralized location and can review and assign OR time based on policies and procedures put in place by the OR manager. Once a request is reviewed and booked, the surgeon's clinic is automatically notified of all the relevant information necessary for preparing for and performing the surgery. All of these interactions are documented so you have a complete audit trail for each individual case scheduled, helping with accountability and transparency around access to OR.

	Surgeon 1	Surgeon 2	Surgeon 3	Surgeon 4	Surgeon 5
Cases	9	1	4	2	8
Average Case Duration	142.33	161	192.25	103	112.5
Average Case Charges	\$153,564.32	\$96,973.16	\$124,309.64	\$92,728.45	\$113,036.84
Average Case Actual Payments	\$12,386.62	\$9,393.37	\$16,536.00	\$23,399.69	\$14,054.17
Average Case Cost	\$7,599.68	\$6,683.72	\$6,504.03	\$6,307.41	\$5,952.08
+ Implant Cost	\$6,745.78	\$6,000.00	\$5,869.50	\$5,550.00	\$5,430.88
+ Supply Cost	\$853.90	\$683.72	\$634.53	\$757.41	\$521.21
Contribution	\$43,082.46	\$2,709.65	\$40,127.88	\$34,184.56	\$55,116.18
Contribution per Minute	\$49.22	\$16.83	\$54.46	\$166.16	\$90.20

About Us

Leap Rail was created with the sole intention to simplify the complex operating room environment. Shayan Zadeh, Founder & CEO of Leap Rail was blown away by the lack of intuitive and smart technology being used with-in hospital operating rooms and standalone ambulatory surgery centers. Diving into this issue, Zadeh discovered there was no current solution on the market, at least not one the way he envisioned the solution should be. Relying on his entrepreneurial spirit, tried and true methodology and over one year of hands on, in-person research, Leap Rail was born. With razor sharp focus, Leap Rail has streamlined operating rooms providing:

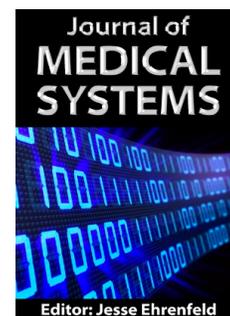
- Accurate surgical case duration
- Block utilization predictions
- Block release management
- Streamlined cross-team communication
- Scheduling decision support
- Real-Time analytics
- Case cost analysis
- Patient's family notifications
- Vendor management
- Pre/Post & PACU smart boards

Don't just take our word for it

Leap Rail was named to Healthcare Tech Outlook's Top 10 Operating Room management Solution Providers

Healthcare
Tech OUTLOOK TOP 10
OPERATING ROOM
MANAGEMENT
SOLUTION PROVIDERS - 2018

Leap Rail's method resulted in a 70% reduction in overall scheduling inaccuracy as published by Journal of medical Systems



Artificial Intelligence for your Entire PeriOp Platform