



LiveData PeriOp Manager™

Because "never events" should never happen

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It's been 15 years since the Institute of Medicine issued its groundbreaking report, "To Err is Human: Building a Safer Health System." Yet, Johns Hopkins University researchers recently found that surgery-related "never events" continue to occur surprisingly often, with costly results.

Between 1990 and 2010, researchers found the average medical liability payout reached over \$127,000 for wrong-site surgeries, almost \$110,000 for wrong-patient surgeries and more than \$232,000 for wrong-procedure surgeries. Some payouts even reached more than \$7 million.¹ But some of the best medical centers in the United States are fighting back by leveraging the power of LiveData PeriOp Manager.

Indeed, whether your facility is running 40 operating rooms (OR) with hundreds of surgeries each week, or just one or two rooms with fewer than a dozen, PeriOp Manager can help improve safety and reduce the risks of "never events," as well as maximize OR utilization, throughput and patient care quality within your own perioperative suite.

The PeriOp Manager difference

Combining the functionality of LiveData with DSS' Veterans Health Information Systems and Technology Architecture (VistA) integration, PeriOp Manager is today's most comprehensive and cost-effective solution for managing, documenting, analyzing and improving every step of the perioperative process, from pre-operative patient assessments, through surgery, to discharge to the recovery room.

A multi-tiered solution

To ensure consistently successful surgical outcomes, it is critical to put the right data in the right place at the right time. To that end, PeriOp Manager comprises four modules that can be leveraged either individually or together to integrate real-time data with workflow automation to coordinate and manage surgical patient care.

LiveData PeriOp Board™

Taking patient prep to a higher level

Presenting a single operational view of individual patient status, as well as overall preoperative case workflows, PreOp Board serves as a dynamic, digital checklist of patient preparation for surgery. Each patient's name and assigned staff, along with milestones such as antibiotic status, H&P, consent, site marking, circulating nurse visit, lab status, IV status, nurse assessment and readiness for the operating room, are all automatically checked off as they are completed and documented.

LiveData Family Waiting Board & PeriOp Mobile Messenger™

Peace of mind for loved ones

PeriOp Manager Mobile Messenger and Family Waiting Board allow families to track the progress of their loved ones as they move through the perioperative process. Using real-time data provided by PeriOp Manager, families waiting remotely can be alerted to patient status via text message. In a traditional waiting room, Family Waiting Board displays patient location information on large screen monitors in a HIPAA-compliant manner.

LiveData OR-Dashboard™ with Active Time Out®

Enhancing surgical workflows

OR-Dashboard with Active Time Out integrates patient data from CPRS/VistA, Anesthesia Information System and monitoring devices with automated surgical workflow and patient safety processes for display on wallmounted screens in the OR. OR-Dashboard enhances every step of surgical workflow from OR setup through intraoperative care. Active Time Out automates and integrates the surgical safety checklist into the surgical workflow, including pre-induction checklist, pre-incision checklist and sign-out or debriefing checklists.

1. "Surgical 'Never Events' occur at least 4,000 times per year," Marty Makary, M.D., M.P.H. Johns Hopkins Medicine, Dec. 19, 2012.

2. Haynes AB, et al. A surgical safety checklist to reduce morbidity and mortality in a global population. N Engl J Med. 2009; 360:491-499.

LiveData OR-Schedule Board™

Tracking daily caseloads across multiple platforms in real time

OR-Schedule Board provides a dynamic, real-time view of the day's surgical caseload on wall-mounted screens throughout the perioperative suite, in staff lounges and SPS, as well as on tablets and desktop computers connected to secure hospital networks. With just one glance, personnel can see:

- The current and future state of all operating rooms
- Which cases are running and/or scheduled in any OR
- The on-time/delayed status of each case, and its impact on the start times of subsequent cases
- The exact status of each case in real time

In addition, OR-Schedule Board's powerful and flexible functionality permits cases to be easily canceled, rescheduled and/or reassigned to other operating rooms as required by add-ons, emergency cases or other events.

"Surgical complications were reduced by one-third when a safe-surgery checklist was employed."

- New England Journal of Medicine 2

LiveData Analytics™

Leveraging big data to assess and improve care quality

LiveData PeriOp Manager Analytics automatically collects and organizes real-time data from the PeriOp Manager components to empower OR managers and hospital leaders to uncover, identify, and target opportunities to improve performance. These changes deliver an immediate impact on patient safety, quality of care, and operational efficiency:

- Transform real-time operational data into intuitive, actionable, compliance and efficiency intelligence
- Eliminate the need to export, format, and import data from multiple sources

- Analyze and access metrics the next day
- Use state-of-the-art data visualization tools to empower clinical, operational, and business managers to quickly analyze and visualize workflow metrics across the entire perioperative process
- Enable stakeholders to quickly uncover and target opportunities for improved performance
- Build trust with concurrent data entry, laying the foundation for advanced AI recommendations
- Capture data in near real-time from LiveData PeriOp Manager™ or through integration with hospital information systems and other data sources
- VISN analytics roll-up so VISN leadership can easily compare and contrast the different VAMC facility performances

Three dimensions of benefits

Leveraged individually or together as one comprehensive package, all modules in LiveData PeriOp Manager can help your facility manage, track and improve surgical performance across three key dimensions:

Patient Safety

- + Eliminate/reduce the occurrence of "never events"
- + Achieve consistent, durable surgical timeouts
- + Track and report on patient safety initiatives

Surgical throughput, utilization and efficiency

- + Increase first-case, on-time starts
- + Improve turnover time
- + Enhance operating room utilization
- + Reduce unplanned overtime

Surgical Quality of Care

- + Improve patient satisfaction
- + Enhance team communication
- + Improve compliance with VASQIP, SCIP and CMS VBP

LiveData PeriOp Manager at a glance

- Complete, real-time visibility into all perioperative workflows
- Wall-mounted, workstation and mobile device displays
- Daily OR schedule
- Patient status and location
- OR readiness
- Patient care milestones
- Patient safety
- Bay assignments
- Patient status for waiting families
- Analytics to monitor quality metrics and measure performance improvement
- Seamless VistA integration



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Document Storage Systems, Inc. (DSS) is a catalyst for health care innovation, keeping pace with evolving technologies as a solutions provider, systems integrator, and services contractor to the Department of Veterans Affairs. DSS is committed to assisting VA in its High Reliability Organization journey and delivering care quality for Veterans by meeting top initiatives, changing regulatory requirements, and implementing enhanced business transformation across VA enterprise.

LiveData develops and deploys surgical workflow solutions for operational efficiency and patient safety. Surgery departments using LiveData PeriOp Manager have documented significant improvements in Key Performance Indicators including block utilization, case scheduling accuracy, first-case-on-time-starts, cancellations, and turnover.

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