VA Southern Nevada Healthcare System

Increasing Patient Safety and Access to Surgery at Las Vegas VA Medical Center

Client Profile

The Veterans Administration Southern Nevada Healthcare System (VASNHS) provides health care services to more than 140,000 Veterans living in the Las Vegas valley and surrounding areas. The VA Medical Center in Las Vegas includes:

- 90-bed inpatient facility
- 8 operating rooms
- Services for more than 63,000 patients yearly
- Over 910,000 outpatient visits per year

> "Automating perioperative workflow is helping the VA Southern Nevada Healthcare System improve our operational efficiency and clinical quality. At the same time, we are getting positive feedback from clinical teams observing how real-time visual information improves communication around patients and safety during surgery."
>
> *Greg Clark, Former VASNHS OR Manager*

The Challenge

The U.S. Department of Veterans Affairs (VA) goal is to improve access to timely, high-quality health care for Veterans. To meet the challenge, the Veterans Health Administration (VHA) established initiatives to increase access to care, improve surgical safety and quality, and improve operating room efficiency. These initiatives include measuring and tracking key performance indicators such as same-day surgery cancellations, first case on-time starts, block utilization, 30-day readmissions, and surgical safety and quality. They also incorporate VHA Directive 1039 insuring Correct Surgery and Invasive Procedures and VHA Directive 1128, Timely Scheduling of Surgical Procedures using the Veterans Health Information Systems and Technology Architecture (VistA) Surgery Package.

The Solution

VA Southern Nevada Healthcare System (VASNHS) selected LiveData® PeriOp Manager™, a commercially and VA-proven perioperative system of engagement for the current and future EHRM – VistA and Cerner, to increase access to care and track surgical initiatives. The North Las Vegas VA Medical Center implemented LiveData PeriOp Manager in September 2016 in eight operating rooms. PeriOp Manager modules installed include LiveData Patient Flow, PreOp Board, OR-Dashboard with Active Time Out, OR-Schedule Board, Family Waiting Board, and PeriOp Manager Analytics.

Tracking and Measuring Improvements

As PeriOp Manager went live, VASNHS began collecting real-time operational data that enables clinical teams and OR managers to track and measure perioperative performance. PeriOp Manager Analytics directly captured and transformed data into actionable quality, compliance, and efficiency intelligence.

Electronic Surgical Safety Checklists Improve Patient Safety

LiveData Active Time Out, an interactive version of the World Health Organization (WHO) surgical safety checklist, allowed VASNHS to measure timely completion of checklists and to achieve compliance with surgical safety initiatives at 94 percent or higher.
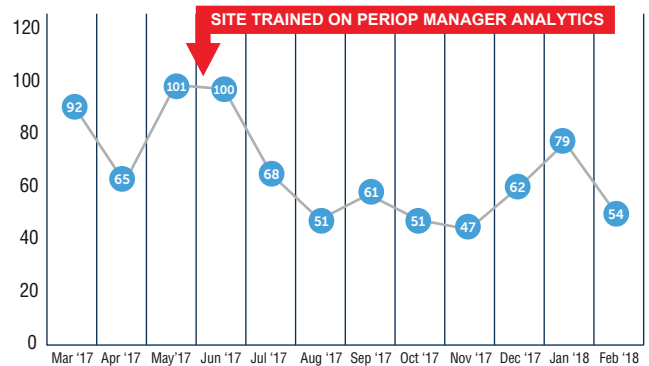
Integrated Systems Reduce Surgical Case Cancellations

Case details are managed and updated in VistA. Real-time surgical schedules are managed in LiveData OR-Schedule Board based on updates from workflow monitoring or drag and drop interactive tools. Bidirectional integration synchronizes both systems enabling clinical teams and schedulers to make immediate scheduling changes and reduce cancellations.

Cancellations decreased from 100 in June to 51 in August.

Patient Safety using LiveData Active Time Out

Average of 94% or better completion for all Active Time Out patient safety checklists.

95% For Pre-Induction

96% For Pre-Incision

94% For Post-Procedure

VA Las Vegas Cancelled Cases (Last 12 Mos.)

SITE TRAINED ON PERIOP MANAGER ANALYTICS

Mar '17: 92, Apr '17: 65, May '17: 101, Jun '17: 100, Jul '17: 68, Aug '17: 51, Sep '17: 61, Oct '17: 51, Nov '17: 47, Dec '17: 62, Jan '18: 79, Feb '18: 54

Summary

VA Southern Nevada Healthcare System increased access to surgery using LiveData PeriOp Manager to improve clinical efficiency and surgical team communication with real time, visually-rich displays of case workflow. Interactive checklists guide patients and clinicians through pre-admission workups and pre-operative milestones to keep clinical staff synchronized with planned procedures and actual real-time OR case schedules.

Patient safety and quality measures are supported, tracked, and documented by an electronic safe surgery checklist that engages clinical teams and ensures full compliance. Automated workflows and visual displays keep clinical staff on the same page in the periop environment and enable surgeries to run consistently on time and improve utilization of surgical resources.

About LiveData and DSS, Inc.

LiveData, Inc. and Document Storage Systems, Inc. (DSS, Inc.) partner to deliver LiveData to VA healthcare systems. LiveData PeriOp Manager visually integrates patient information and perioperative case workflow to coordinate and manage the patient's surgical journey. DSS, Inc. integrates PeriOp Manager with the Veterans Information Systems and Technology Architecture (VistA) health information system and installs the solution throughout the perioperative suite.

For more information about PeriOp Manager, visit LiveData and DSS, Inc.