SURGICAL SAFETY TECHNOLOGIES

GUIDE
Revolutionize Surgical Safety with AI-Driven Insights

OR teams strive for continuous quality and process improvement but lack the necessary tools to gain comprehensive visibility into their procedures and objectively analyze clinical performance.

The OR Black Box® makes surgery more transparent, precise, predictable, and ultra safe through:

Data-driven performance optimization to enhance OR processes.

Auditing tools to ensure compliance with surgical safety checklist procedures.

Real-time analytics and predictive insights to streamline surgical suite workflows.

Benchmarking capabilities to compare performance to other high-performing institutions.

Video review capabilities that support examination of case-level performance.
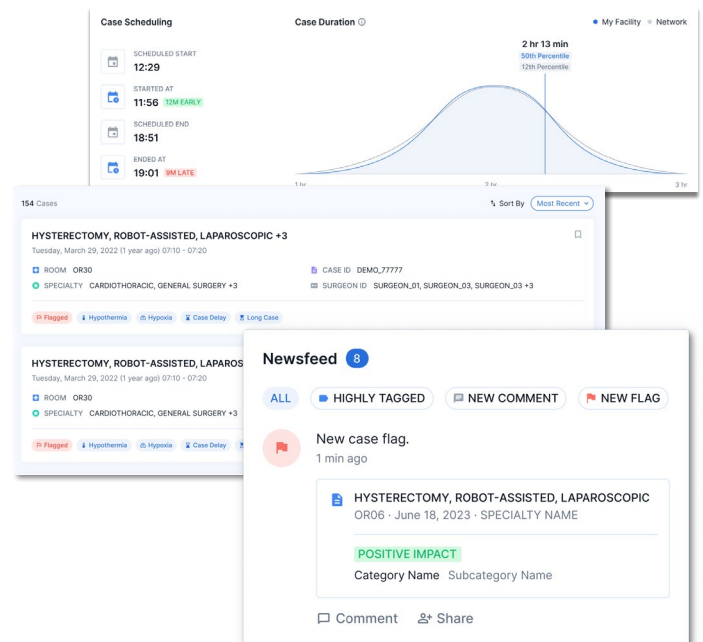
OR BLACK BOX®

Quality and Safety Improvement

The OR Black Box harnesses the power of data integration, audiovisual capabilities, and AI to address critical needs across patient safety, quality improvement, skills mastery, and operational efficiency. This cohesive solution is tailored for the unique complexities of high-risk environments, from identifying areas of risk to streamlining utilization and throughput, to facilitating coaching and education, and auditing protocol compliance.

CASE DISCOVERY

Drive Surgical Quality and Care Standardization

The Case Discovery module leverages AI and data analytics to automatically detect clinical and operational outliers, empowering teams to understand exactly what went wrong during a procedure and why through objective video review. It supports root cause analysis, and promotes transparency and continuous improvement by allowing organizations to compare surgical performance, identify best practices, and learn from top-performing peers.

EXPLORER

Enrich Surgical Training, Research, and Performance Improvement

The Explorer module provides every clinician the ability to store and view a growing library of surgical videos. Each procedure captured with a surgical view is automatically uploaded to a facility's Explorer video library, creating innovative opportunities for provider education, research initiatives, presentations, or customizable projects.
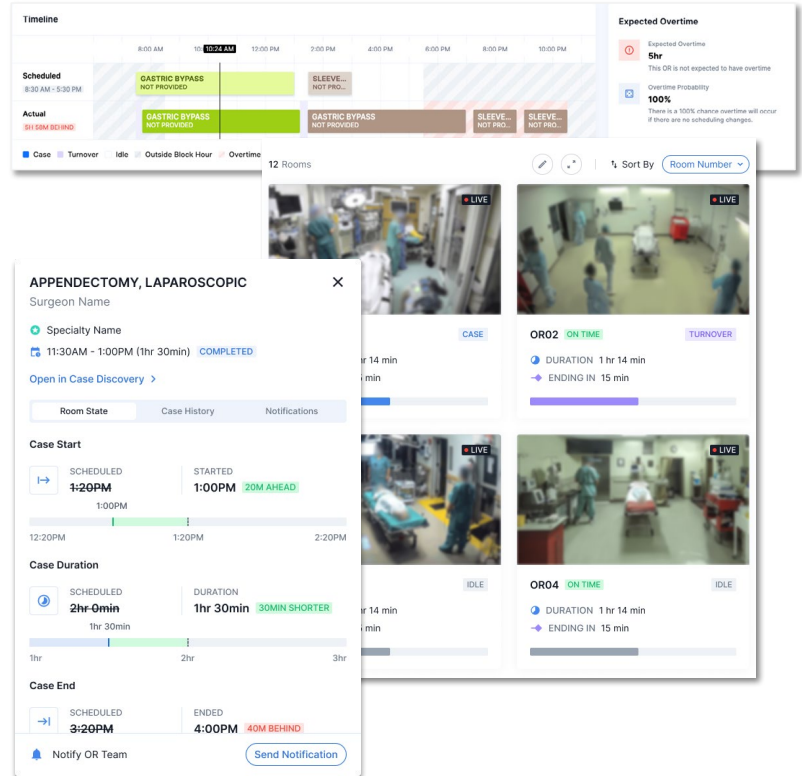
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ROOM STATE

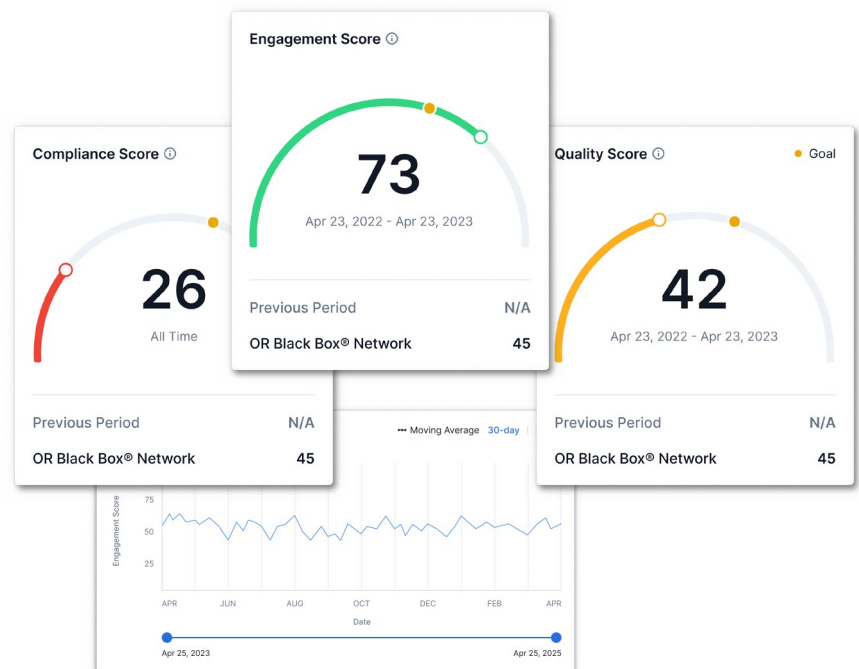### Streamline Surgical Suite Operations

The Room State module provides real-time OR analytics and predictive insights, using in-room cameras, to streamline workflows, optimize scheduling, and reduce unplanned overtime. The module enables staff to add more cases using case schedule change recommendations, automate staff notifications, and automate timestamping. With a more precise understanding of daily schedules, staff well-being is improved, and idle time/ overtime is proactively mitigated.

SAFETY CHECKLIST

Enhance Surgical Safety and Quality

The Surgical Safety Checklist module replaces subjective and laborious internal self-audits with objective third party analysis. This unbiased auditing and benchmarking tool analyzes key factors like team engagement, compliance, and quality before anesthesia (briefing), before surgery (time out), and prior to departure of any personnel (debriefing) to help organizations drive quality improvement initiatives.

Elevate Your OR

Harness the OR Black Box's comprehensive platform to improve patient safety, optimize operations, and facilitate continuous improvement.

This pioneering solution empowers surgical teams to systematically analyze and refine every aspect of their performance – transforming care delivery through continuous, data-driven optimization.

Surgical Safety Technologies Inc. (SST) is a mission-driven organization that is transforming healthcare through intelligent software solutions. Our comprehensive platform leverages advanced data analytics, audiovisual capabilities, AI, and machine learning to elevate patient safety, optimize operations, and facilitate continuous improvement across the perioperative, trauma recovery, and labor and delivery environments. Cutting-edge technologies enable autonomous risk detection, real-time operational analytics, predictive insights, and protocol auditing to empower clinicians with the intelligence to achieve superior outcomes. Built on research excellence through partnerships with leading hospitals, our innovative approach integrates with existing systems while future-proofing organizations through an open platform for emerging innovations. Delivering proven value with over 80 peer-reviewed publications, SST drives the future of intelligent surgical care globally.

Visit our website to learn more at:
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