

A powerful surgical insights platform for surgeons dedicated to excellence



About

C-SATS is reinventing surgical skills improvement on a global scale. Rooted in robust research across a team of surgeons, engineers and biostatisticians at the University of Washington, C-SATS is a SaaS-based, device agnostic, surgical skills improvement and learning platform. Through C-SATS, surgeons are unlocking the wealth of data created during each surgical procedure in efforts to support safe and efficient surgeries.

Despite decades of meaningful advancements in surgery, variability in outcomes still exists. Research consistently demonstrates that high surgical skill* is critical to achieving patient outcomes and safety and is associated with:

- ① **Fewer complications**
- ② **Shorter procedures**
- ③ **Fewer readmissions**
- ④ **Lower mortality**

Surgeons of all levels can uncover valuable insights, benchmark themselves and share their expertise with the broader community.



Surgical video capture & storage

Seamless video capture from any platform (agnostic) and automatic upload to your HIPAA-compliant space in the cloud.



Clinical insights & analytics

Unlock powerful clinical insights and analytics from your private dashboard, on demand. Monitor metrics and trends over time.



Unbiased assessment & feedback

Submit your case videos for review by expert surgeons and crowd-sourced reviewers. Receive unbiased assessment and feedback on your skills and technique.



Personalized learning & sharing

Get 24/7 access to personalized content, coaching and peer-to-peer support. Contribute to the community by sharing your expertise with others.

Outcomes¹

In a cross-sectional analysis, surgeons in the top quartile of GEARS scores performed better than other groups of surgeons.

↓ 34%
lower risk of extended inpatient length of stay^{2,3}

↓ 68%
lower risk of conversion to open surgery²

↓ 43%
lower risk of blood loss exceeding 100 ml²

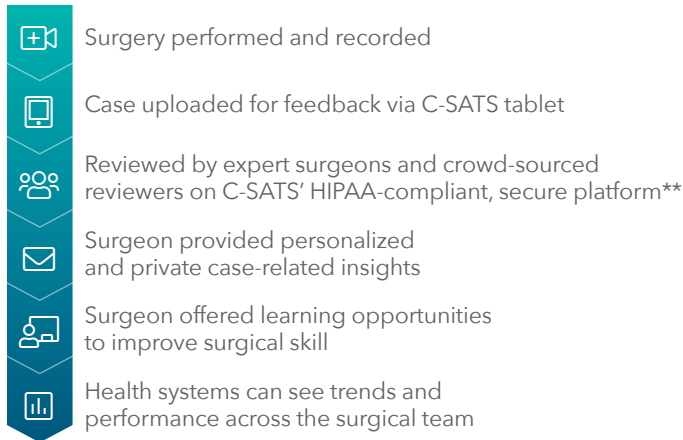
↓ 33%
lower mean operative time minutes²

↓ \$586
lower mean total cost (\$)⁴ per case⁴

*"Surgical Skill and Complication Rates After Bariatric Surgery," New England Journal of Medicine, October 10, 2013. John D. Birkmeyer, M.D., Jonathan F. Finks, M.D., Amanda O'Reilly, R.N., M.S., Mary Oerline, M.S., Arthur M. Carlin, M.D., Andre R. Nunn, M.D., Justin Dimick, M.D., M.P.H., Mousumi Banerjee, Ph.D., and Nancy J.O. Birkmeyer, Ph.D., for the Michigan Bariatric Surgery Collaborative

1Unpublished exploratory analysis of surgeon Global Evaluative Assessment of Robotic Skills (GEARS) score and associated EMR outcomes data for six specialties, including gynecology, general surgery, urology, urogynecology, gynecologic oncology and colorectal, across 25 procedure groups (~3,000 cases). Models adjusted for procedure type and ASA. 2Top vs. bottom quartile nominal [95% confidence intervals] without adjustment for multiple testing. Risk reductions: extended length of stay (LOS) [8, 52%]; conversion to open [30, 85%]; blood loss >100ml [22, 58%]. Surgery minutes [-13, -42]. 3Extended LOS defined as exceeding the procedure-specific median days. 4Costs in 2019 USD comparing surgeons in top quartile vs. interquartile range. Cost reduction 95% CI [-\$1158, \$-13].

How it works



By the numbers

C-SATS has been deployed in nearly **100** institutions across the country to date

25k cases submitted to date **7.5m** assessments since inception

58k videos prepped for review **95+** case studies

300+ expert reviewers **13k+** learning opportunity videos

In their words



“

C-SATS provides ongoing, personalized learning based on my surgical skills and techniques. These insights are invaluable. The feedback I have received from C-SATS and my telementoring session is constructive, not critical. It is instructive, positive, personalized and directed at my surgical skills and techniques. That is what makes C-SATS so powerful.

Dr. Patricia Grade

Obstetrics and Gynecology,
Scottsdale Shea Medical Center



“

Institutions have the responsibility to ensure that their surgeons demonstrate technical competency before allowing them to perform surgery. C-SATS can provide me with accurate, unbiased and objective data on a surgeon's technical skill.

Dr. James Porter

Medical Director for Robotic Surgery,
Swedish Medical Center



“

After fellowship, there are very limited opportunities for surgeons to receive constructive feedback on their skills development. As a C-SATS Expert, you can fill this gap surgeons face in their careers. Providing actionable insights for others to learn from has been a satisfying, meaningful experience for me.

Dr. Mark Soliman

System Chairman of Colorectal
Surgery, AdventHealth Orlando

Minimally Invasive Surgery Fellowship
Program Director,
Colon & Rectal Clinic of Orlando

Industry innovators

C-SATS is a community built for surgeons and health systems dedicated to excellence, that includes:



DukeHealth



Prime



AdventHealth



Banner Health®



The Valley Health System

Connect with us

To speak with a member of the C-SATS team, please contact info@csats.com and include a few words regarding the type of information you are seeking.

Scan the QR code at right to explore membership opportunities or request a demo.



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**Reviews are a combination of quantitative inputs through crowd-sourcing, based on inter-rater reliability, and qualitative reviews conducted by expert surgeons.

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