Gain expert feedback and benchmark yourself. Uncover actionable and unbiased insights.

About

C-SATS® is reinventing surgical skills improvement and professional education 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' HITRUST CSF® Certified platform, 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[1] is critical to driving patient outcomes and safety and is associated with:

✓ **Shorter procedures**** ✓ **Fewer complications***** ✓ **Fewer readmissions*** ✓ **Lower mortality******

Surgeons of all stages in their careers can access personalized expert feedback and conveniently view data and insights to consistently evolve their surgical proficiency.

Simplified surgical video capture & storage

Seamless video capture from any MIS platform (agnostic) and automatic upload to your HIPAA-compliant, HITRUST CSF® Certified C-SATS library.

Quantifiable clinical insights & analytics

Unlock AI-powered clinical insights and analytics from your C-SATS private dashboard, on demand. Monitor personal metrics and trends over time.

Unbiased assessment & actionable feedback

Submit your case videos for review by expert surgeons and crowd-sourced reviewers. Receive consistent, actionable feedback on your skill 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.

A successful C-SATS program may lead to improved outcomes[2]

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

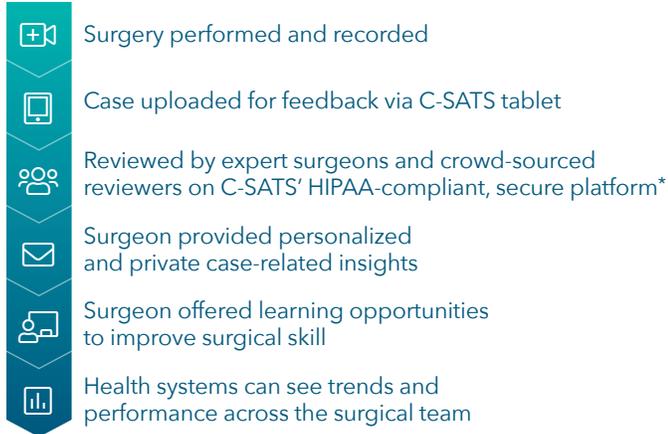| ▼ **27**	▼ **43%**	▼ **68%**	▼ **34%**	▼ **$586**
fewer minutes mean operative time[†]	lower risk of blood loss exceeding 100 ml[†]	lower risk of conversion to open surgery[†]	lower risk of extended inpatient length of stay[†,††]	lower mean total cost ($) per case[†††]

The bottom quartile of surgical skill, as compared with the top quartile, was associated with: *higher rates of readmission (6.3% vs. 2.7%) (P<0.001) **longer operations (137 minutes vs. 98 minutes, P<0.001) *** higher complication rates (14.5% vs. 5.2%, P<0.001) **** higher mortality (0.26% vs. 0.05%, P = 0.01)

† Top 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]. †† Extended LOS defined as exceeding the procedure-specific median days. ††† Costs in 2019 USD comparing surgeons in top quartile vs. interquartile range. Cost reduction 95% CI [$-1158, $-13].

[1] Birkmeyer JD, Finks JF, O'Reilly A. et al. Surgical Skill and Complication Rates After Bariatric Surgery. New England Journal of Medicine. 2013;369:1434-1442.

[2] Unpublished exploratory analysis of surgeon Global Evaluative Assessment of Robotic Skills (GEARS) score and associated C-SATS 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.

How it works

- Surgery performed and recorded
- Case uploaded for feedback via C-SATS tablet
- Reviewed by expert surgeons and crowd-sourced reviewers on C-SATS' HIPAA-compliant, secure platform*
- Surgeon provided personalized and private case-related insights
- Surgeon offered learning opportunities to improve surgical skill
- Health systems can see trends and performance across the surgical team

By the numbers

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

29K cases submitted to date

8.8M assessments since inception

69K videos prepped for review

99+ case studies

350+ expert reviewers

15K+ learning opportunity videos

Data as of January 2021

In their words

> " As mid-career surgeons, we can't be satisfied with our current skill level—we need to keep improving. In our local communities, it can be expensive and hard to find an expert surgeon with the time available to review cases. C-SATS is a game changer and provides a solution to this problem.
>
> **Dr. John Pilcher**
> Bariatric Surgeon,
> Sage Bariatric Institute

> " (We) utilize cutting-edge technology and advanced data analytics to continue improving our quality, clinical efficiency and patient outcomes. C-SATS is not only a powerful continuing education solution for our world-class surgeons, but it helps us achieve our goals as a system.
>
> **Dr. Carol Barsky**
> EVP & Chief Quality Officer,
> Hackensack-Meridian Health

> " The C-SATS reviews of my videos are insightful—validating good techniques and suggesting constructive, actionable improvements. The technology breaks down the critical procedural components, and relatable experts look over a part of the procedure, so each component is reviewed by a couple different pairs of fresh, objective eyes. It's how residency/fellowship/continuing procedural training should be, in a digestible format.
>
> **Dr. Jeff Lin**
> Gynecologic Oncology,
> Bay Area Gynecology and Oncology

Industry innovators

Since our launch, we've engaged with some of the largest, most forward-thinking health systems in the country.

The Valley Health System®

Prime

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UNIVERSITY OF MICHIGAN

AdventHealth

Banner Health®

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