

theator

SURGICAL INTELLIGENCE

The Moments that Make the Surgeon

theator puts defining intraoperative moments in the hands of surgeons so they can continuously perfect their craft.



Expert Surgeons Are Made By Defining Surgical Moments

All surgeries, no matter how long or complex, are defined by a handful of critical moments. Moments where vital, split-second decisions determine whether surgery succeeds, or doesn't. Surgical expertise is built by embracing a particular mindset: that mastery comes from constantly seeing, analyzing, and building upon these defining moments. Yet, the very foundation of surgery, the apprenticeship model, is preventing this from happening - even the most skilled surgeons rarely get to review their own surgical moments, let alone those from other procedures.



Introducing The Surgical Intelligence Platform

A whole new solution by theator that places the defining surgical moments in the hands of surgeons so they can continuously perfect their craft. The Surgical Intelligence platform captures video of real-world operations and then uses visual AI to extract and analyze every key moment, giving surgeons unprecedented insight into how to perfect their individual skills and overall performance.

Take Your Surgical Expertise to the Next Level



Pre-Op Preparation

Review critical moments from operations just like the one you're about to perform, so you make sharper decisions even in scenarios you've never encountered before.



Post-op Analysis

Receive quick, precise and objective post-op analysis on your performance, to build expertise and refine your skills for the future.



Leadership Visibility

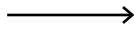
View surgical moments in context of the surgeon operating and the patient being operated on.

Powering Continuous Surgical Improvement



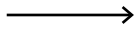
Prepare

for upcoming operations with instant access to key surgical moments from similar procedures



Perform

procedures even more confidently, backed by deep, scientific insights



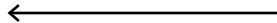
Review

with quick, precise, objective post-op analysis of the procedure you've just performed



Repeat

this cycle to continuously boost your surgical performance



"Real learning doesn't happen unless there's real procedures and real patients. This is what theator does so well. Allowing surgeons to use video to actually learn and make smarter decisions."

Dr. Liane Feldman, Chair, Department of Surgery, Faculty of Medicine, McGill University and Surgeon-in-Chief, McGill University Health Centre

The Most Simple and Insightful Experience



Smart Simplified Experience

Learn from deep surgical insights, generated automatically and delivered directly to you.



Context-Rich Insights

Cut right to the defining moments of any procedure, and start enhancing your performance immediately.



Instant Access to Key Surgical Moments

View surgical moments in context of the surgeon operating and the patient being operated on.

Building the World's Largest Surgical Intelligence Registry

>30K

Hours of video uploaded

>405M

Frames analyzed

>60K

Intraoperative moments curated

>3K

Visual operative reports generated

View Key Surgical Moments On-Demand

Easily access defining moments across a range of parameters including: steps, events, milestones and decision-making junctions.

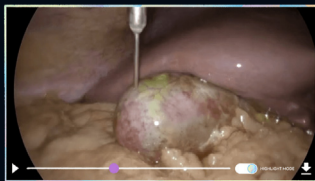
Adhesiolysis



Steps

View each procedure as an ordered list of steps and jump right to the specific step you want to learn from.

Decompression



Decisions

Examine moments at the critical crossroads between steps or before events to make sharper, more well-informed decisions in the future.

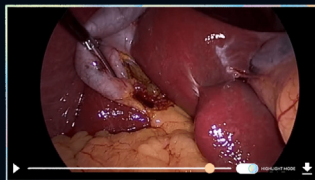
Cystic duct leak



Events

Focus in on specific events that happen throughout the procedure to better refine key skills.

Critical view of safety



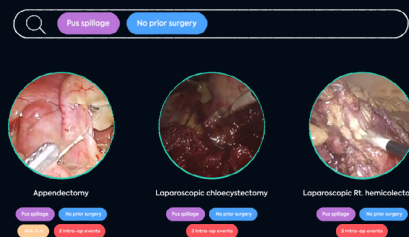
Milestones

Zero in on the major checkpoints to ensure you consistently align with best practices in every procedure.



Analyze Performance with Contextual Insights

Analyze data with surgical precision. Review key moments in context of both surgeon and patient and use relevant insights to see how your performance compares to your peers.



Find Each Defining Moment Instantly

Cut to critical moments quickly. With smart annotation and filtering, you find exactly what you need, right when you need it.

Raising the Standard of Surgery Worldwide

Built for surgeons by surgeons, the Surgical Intelligence platform combines highly sophisticated technology with a deep understanding of the challenges facing today's surgeons to offer a solution carefully crafted around surgeons' needs.



"It's an exciting time in the history of surgery to have the ability to analyze procedure videos routinely. We've always needed more objective, fair, and accurate ways to provide feedback to practicing surgeons or trainees. theator's technology has the potential to provide just that."

Dr. Steven Schwartzberg, Chairman, Department of Surgery, University at Buffalo School of Medicine and Biomedical Sciences and Past President, Society of American Gastrointestinal and Endoscopic Surgeons [SAGES]

Get Unprecedented Research Opportunities



Analyze Your Own Procedures

Use visual AI to analyze the objective data of the key surgical moments from your own procedures. Then form and test hypotheses to develop best practices for surgeons worldwide.



Access Real World Peer Insights

Explore indexed, annotated surgical videos from all over the world to help validate your research and reinforce your findings. With a world of surgical knowledge at your fingertips, the research possibilities are endless.



Analyze & Hypothesize

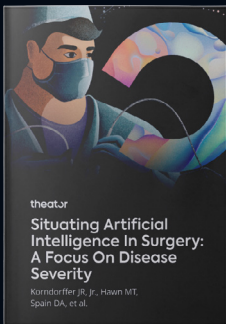
Based on smart annotated videos of your own procedures and those of your peers

Publish & Impact

Publish your findings to advance surgical understanding and bring new best practices from bench to bedside

Research & Validate

Against a global database of real-world surgical videos, indexed for fast search and scientific analysis



Situating Artificial Intelligence in Surgery: a Focus on Disease Severity

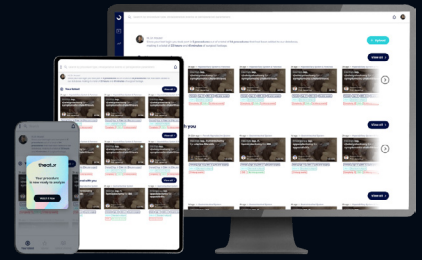
Korndorffer JR, Jr., Hawn MT, Spain DA, et al.

In collaboration with Stanford Surgery, theator analyzed the world's largest dataset of laparoscopic cholecystectomy videos for intraoperative events and a Critical View of Safety. The authors found AI-based annotation to be a powerfully effective video review tool with great potential to provide surgical quality assurance. This shows that AI in surgery is much more than a distant promise - It proves that theator's Surgical Intelligence platform is already having real, tangible impact today.

The complete manuscript of this study and its presentation at the American Surgical Association's 140th Annual Meeting, April 2020, in Washington, D.C., is anticipated to be published in the Annals of Surgery pending editorial review.

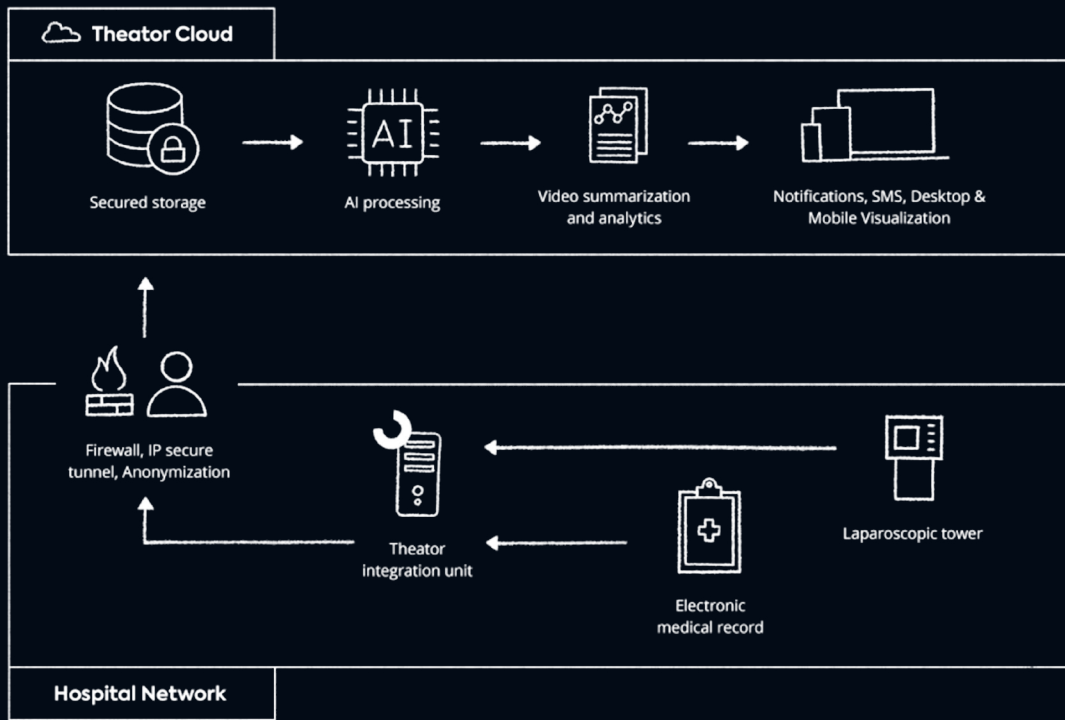
On-Call. On Any Device

Get surgical insights at the office or at home - on any device. Now surgeons can refine their skills anywhere, anytime.



Powered By Advanced Computer Vision

Surgical Intelligence uses visual AI to scan video footage of real-world procedures, identify every key moment, and annotate them with smart metatags. The result is an intelligent, indexed library that gives surgeons unprecedented insight into how to perfect their skills and performance.



Secure and Complaint by Design

Our platform is completely secure and HIPAA compliant, ensuring that all sensitive patient data stays private and protected.



Executive Team



Tamir Wolf, MD, PhD
Co-founder and CEO



Dotan Asselmann
Co-founder and CTO



Clinical & Healthcare Advisors



Honorable David J. Shulkin, MD



Bruce Ramshaw, MD



Gerald M. Fried, MD



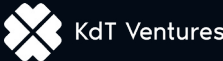
Gideon Sroka, MD



Trusted by



Investors



Ushering in a New Age of Surgical Intelligence



Smart Simplified
Experience

Instant Access to Key
Surgical Moments

Context-Rich
Insights

Sharper Skills. Smarter Decisions. Better Performance.

www.theator.io

Seize Your Moments

Our computer vision experts, clinical analysts, developers, and product visionaries are all dedicated to providing you with a superior experience.

Supported by practicing surgeons, clinical luminaries, and computer vision thought leaders, everything we do is cutting edge and grounded in real-world clinical practice and science.

For more information, contact us:

Tamir Wolf, MD, PhD
Co-founder and CEO
tamir@theator.io
+1 646 935 9217
www.theator.io