

surgicalscience

LapSim®





LapSim® - Teach the Skills That Surgeons Really Need

The LapSim simulator comes with an intuitive interface, performance and assessments metrics and an immersive 360 VR headset.

The Next Level in VR Training

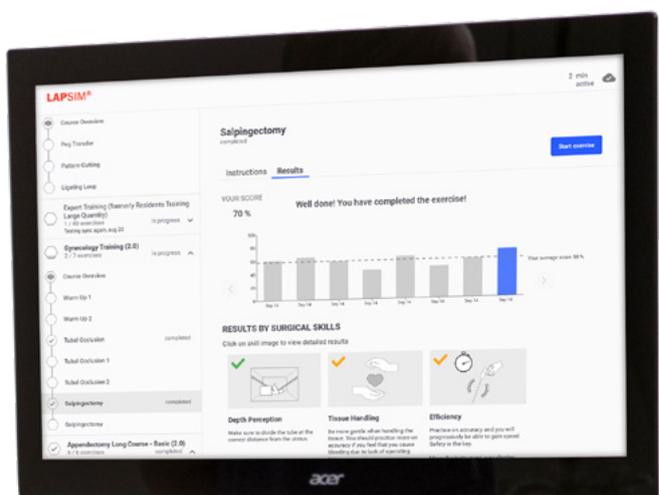
- With the haptic technology residents can master hand-eye coordination and psychomotor skills, and develop accurate manual dexterity.
- The LapSim 360 simulation suite creates an immersive, multi-sensory training experience.

New Metrics for Clear, Objective Feedback

- Residents get a comprehensive data-driven training report that analyses their skills in detail.
- Assessment metrics are classified into easy to understand surgical terms.
- Each exercise can be recorded to provide detailed performance analysis to support skill development and encourages residents to train.
- All parameters are grouped according to the validated GOAL* rating scale.

Intuitive Interface

- An effective goal-orientated environment helps residents learn and stay motivated.
- Easy to follow instructions and video guides.
- Clear overview of over 40 courses, including introductory courses and challenging exams.



* Global Operative Assessment of Laparoscopic Skills

The Surgical Science Laparoscopy simulators are the most comprehensive evidence-based simulators for essential laparoscopic skills and advanced complete clinical procedures.

LapSim® - Give your training centre a competitive edge

Surgical Science and our pioneering LapSim® simulator can improve your training and patient outcomes simply and quickly. And by working together we can make virtual reality (VR) simulation an essential and cost effective component of your resident training.

The Training Benefits of a LapSim Simulator:

- Train without risk to patients, reducing errors in first operations.
- Shorten the learning curve and be more prepared for real surgery.
- Train more effectively compared to traditional methods.
- Learn 24/7 and accelerate the time needed to gain competency.
- Receive standardized, objective, data-driven feedback.
- Work at your own pace and reduce demands on supervision time.
- Practice entire surgical procedures and experience the realities of the OR.



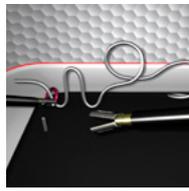
An Ever-Expanding Library of Modules

Our 'Fundamental Skills' modules provide proficiency-based training to help students achieve the manual dexterity needed to perform surgery. Each exercise has increasing difficulty levels that challenge residents and keep them motivated.

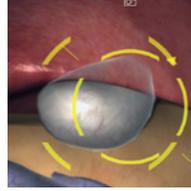
Basic Skills and Task Training



BASIC SKILLS

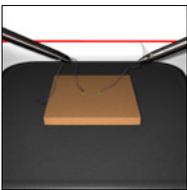


TASK TRAINING

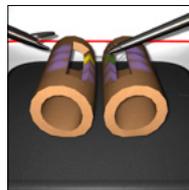


CAMERA ANATOMY
TRAINING

Suturing and Anastomosis



SUTURING



ANASTOMOSIS

With the Surgical Procedure modules, residents can master essential elements of full surgical procedures and experience the true realities of the OR.

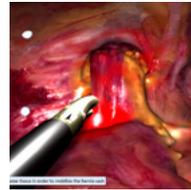
General Surgery



CHOLECYSTECTOMY



APPENDECTOMY



INGUINAL HERNIA

Bariatric Surgery

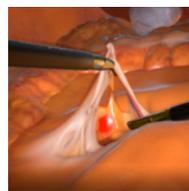
Colorectal Surgery

Urology Surgery

Thoracic Surgery



GASTRIC BAND



HEMICOLECTOMY

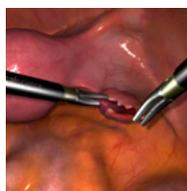


NEPHRECTOMY

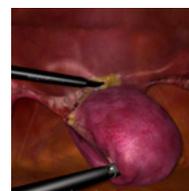


NEW VATS
LOBECTOMY FULL
SUITE

GYN Surgery



GYNECOLOGY



HYSTERECTOMY

LapSim® - Your first choice for training

State-of-the-Art Technology

LapSim is an advanced simulator, with detailed graphics, haptic feedback and an intuitive interface. It provides a rich and immersive, multi-sensory training experience that is unmatched in the market today.

The LapSim Certification Program

Our simulators are the most scientifically validated in the world. Studies have proven that our simulators work and that VR skills successfully transfer to the OR.

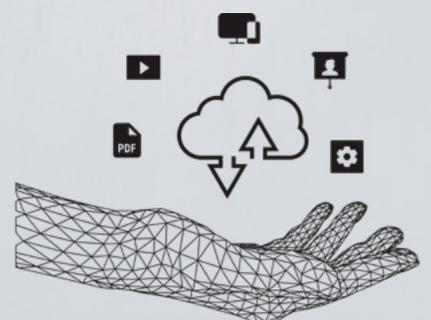
The LapSim Certification Program is a validated curricula that makes sure your residents reach an accredited proficiency in laparoscopy. There are two certified residency programs:

- Designed especially for residents in General Surgery and includes Expert Training and the Ahlberg Exam.
- Designed especially for residents in Gynecology, including Expert Training, Salpingectomy and the Larsen Exam.



MentorLearn Cloud

A cloud-based easy-to-use management system that helps administer all your Surgical Science simulators, curricula and trainees. It enables remote learning and results monitoring, proficiency-based hands-on training and simulation video capture, ideal for debriefing.





In the last 25 years, I have organized about 50 courses in practical surgery for residents and specialists in Obstetrics and Gynecology. In the courses involving laparoscopy, LapSim has been used to a significant extent for training and evaluation. With the extensive scientific documentation available, and based on my many years of experience with LapSim, I want to emphatically state that simulated laparoscopic training with LapSim should be a cornerstone of surgeon training and absolutely contributes to patient safety."



Thomas Bossmar, MD, PhD

Consultant at the Women's Clinic and Practicum, SuS in Lund

Over 100 validation studies including VR to OR transfer of skills

Effect of virtual reality training on laparoscopic surgery: randomised controlled trial

Christian R Larsen, Jette L Soerensen, Teodor P Grantcharov, Torur Dalsgaard, Lars Schouenborg, Christian Ottosen, Torben V Schroeder, Bent S Ottesen
The BMJ

Simulation-based VATS resection of the five lung lobes: a technical skills test

Tamim Ahmad Haidari, Flemming Bjerrum, Henrik Jessen Hansen, Lars Konge, René Horsleben Petersen
Surgical Endoscopy

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Would you like to hear more about how your organization can benefit from simulation? Please get in touch, we'd love to hear from you.
Request a demo at info@surgicalscience.com