

**surgicalscience**

**RobotiX Mentor**

IMPROVE PROFICIENCY AND PERFORMANCE  
WITH VALIDATED SIMULATION TRAINING

**Effective training of robotic surgery  
motor and cognitive skills.**





Surgical Science RobotiX Mentor is the only VR training simulator to provide a comprehensive curriculum including complete robotic clinical procedures with true-to-life graphics and tissue behavior.

## Why RobotiX Mentor?

### **Provides Advanced Clinical Procedures Training:**

Practice procedural steps within a realistic anatomical environment, while demonstrating a variety of techniques and clinical decision-making, including the simulation of complications and injuries.

**True-to-Life Training Environment:** Develop mastery of the console and instruments through realistic simulation of tissue response to instruments and tension, and enable surgeons to learn to “feel” with their eyes.

**Team Training (Optional):** Practice effective collaboration between the robotic surgeon and the surgical assistant.

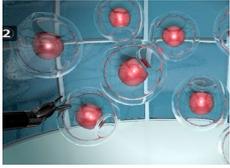
### **Efficient Simulation Curriculum Management:**

A web-based management system offering a customizable curriculum, proficiency-based training, objective performance reports, and video debriefing.

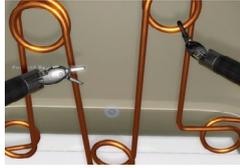
# RobotiX Mentor Ever-Expanding Library of Modules

Surgeons of all expertise levels across diverse medical specialties have an opportunity to efficiently practice the required robotic skills within a whole-procedure VR training curriculum.

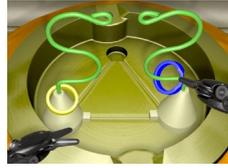
## Robotic Skills



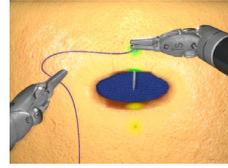
ROBOTIC BASIC SKILLS



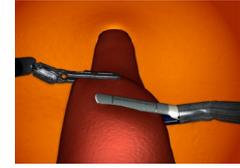
ESSENTIAL SKILLS  
(BASED ON RTN, FLS)



FUNDAMENTALS OF ROBOTIC  
SURGERY (FRS)



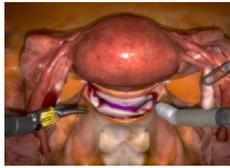
SINGLE-SITE AND  
MULTI-PORT SUTURING



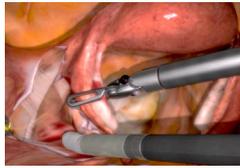
STAPLER

## Procedural Training

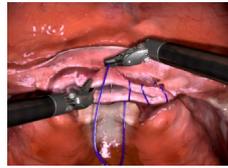
### Gynecology



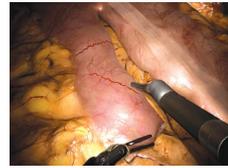
HYSTERECTOMY  
PROCEDURAL TASKS  
(FRGS)



HYSTERECTOMY PROCEDURE

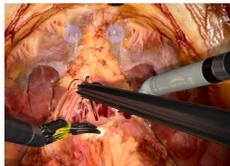


VAGINAL CUFF CLOSURE



RIGHT HEMICOLECTOMY

### Urology



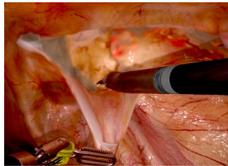
RADICAL PROSTATECTOMY

### Thoracic



LOBECTOMY

### General Surgery



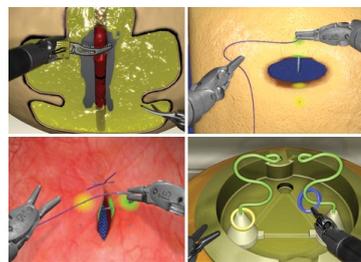
INGUINAL HERNIA



CHOLECYSTECTOMY



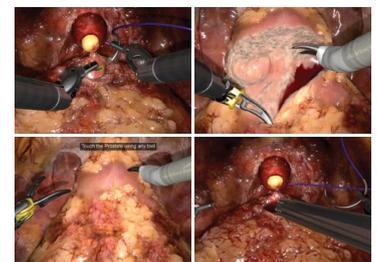
## Courses



RECOMMENDED BASIC  
TRAINING CURRICULUM



FUNDAMENTALS OF ROBOTIC  
GYNECOLOGIC SURGERY (FRGS)  
CURRICULUM



UROLOGY ADVANCED TRAINING  
CURRICULUM



NONTECHNICAL SKILLS TO ENHANCE PATIENT  
SAFETY BY CAMLS AND TEAM TRAINING COURSE



THORACIC COURSE

# RobotiX Express: Fast-Track Surgical Readiness

**Empower your program to develop proficient robotic surgeons sooner, without tying up valuable operating room time.**

Accelerate the path to proficiency with a portable, cost-effective simulator that lets surgeons build core skills outside the OR. Housed in a suitcase, RobotiX Express transforms any space - surgeons' classroom, or home - into a training lab. The result? More surgeons gaining confidence earlier, and programs seeing a faster return on training investments.



## Increased Surgical Capacity

While letting operations suites remain fully dedicated to patient care, you take your team effectively to surgical readiness with seamless access to skills training.



## Lower Barriers to Training

The small, space-independent RobotiX Express allows for on-demand surgical training wherever surgeons are, such as right outside the OR.



## Exceptional Portability

Compact and lightweight, it sets up and stows away in minutes.



## Budget-Friendly Simulation

The RobotiX Express is a cost-effective training alternative that fits tighter training budgets.



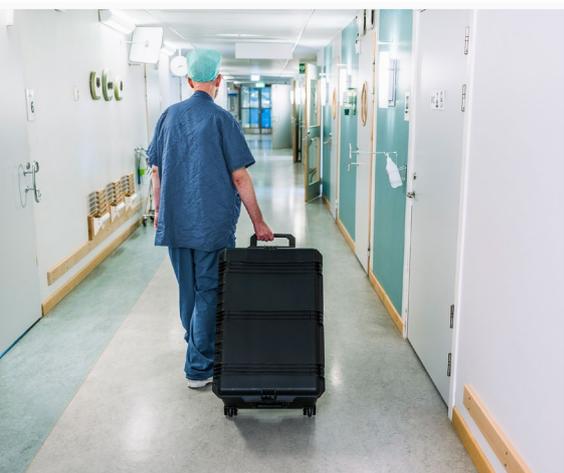
## Web-based Data Access

Track performance, set proficiency goals, and tailor curricula with MentorLearn learning management system.

## Core Skills Every Robotic Surgeon Needs

Exercises cover clutching, camera manipulation, wrist articulation, basic energy usage, needle driving, and pedal control.

\* Available with Robotic Core Skills module



## Simulator Platforms

- Authentic representation of the surgeon console workspace, master controllers and pedals.
- Realistic representation of robotic surgery hand movements.
- Accurate robot kinematics, tools and workspace.
- Adjustable elements provide a comfortable and ergonomic working position.
- A 3D HD stereoscopic personal display providing life-like graphics.
- Instructor monitor can be positioned separately for best group viewing.



## Collaboration with Professional Societies

- European Association of Urology (EAU): RobotiX Mentor simulator to support the ESU/ERUS Hands-on training in Robotic surgery courses.
- Collaboration with the Fundamentals of Robotic Gynecologic Surgery (FRGS) group to develop the Hysterectomy Tasks Module.
- Fundamentals of Robotic Surgery (FRS) Curriculum: The Surgical Science software is part of the multicenter validation.



*Flexible training solutions for robotic surgeons and bedside assistants.*



*Trainees at Karolinska University Hospital have the opportunity to practice both robotic basic skills and full advanced procedures using the RobotiX Mentor. We are pleased to collaborate with 3D Systems to develop the first simulation training module for the RARP full procedure."*

**Peter Wiklund, MD**  
Professor of Urology  
Karolinska Institute



*The RobotiX Mentor system allows us to practice both basic and advanced robotic surgical skills in a setting outside of the operating suite. This provides convenience to both attending and resident surgeons alike."*

**Costas D. Lallas, MD**  
Thomas Jefferson ,University Hospitals  
Dr. Robert and Dorothy Rector Clinical Skills and Simulation Center

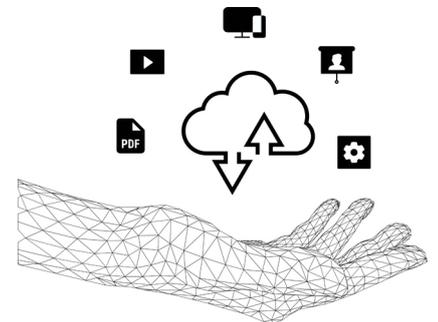


*I perform robotic radical prostatectomy twice a week in our hospital. I use the RobotiX Mentor every day to practice urethrovesical anastomosis; this practice has decreased the time for me to complete the anastomosis in the simulation, and in my opinion the RobotiX Mentor VR practice improves my OR performance with steadfast confidence."*

**Yuji MAEDA, MD**  
Urologist, Kanazawa, Japan

## | 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.



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Let's discuss how your organization can benefit from simulation.  
Request a free demo at: [info@surgicalscience.com](mailto:info@surgicalscience.com)



Scan the QR code for more information.