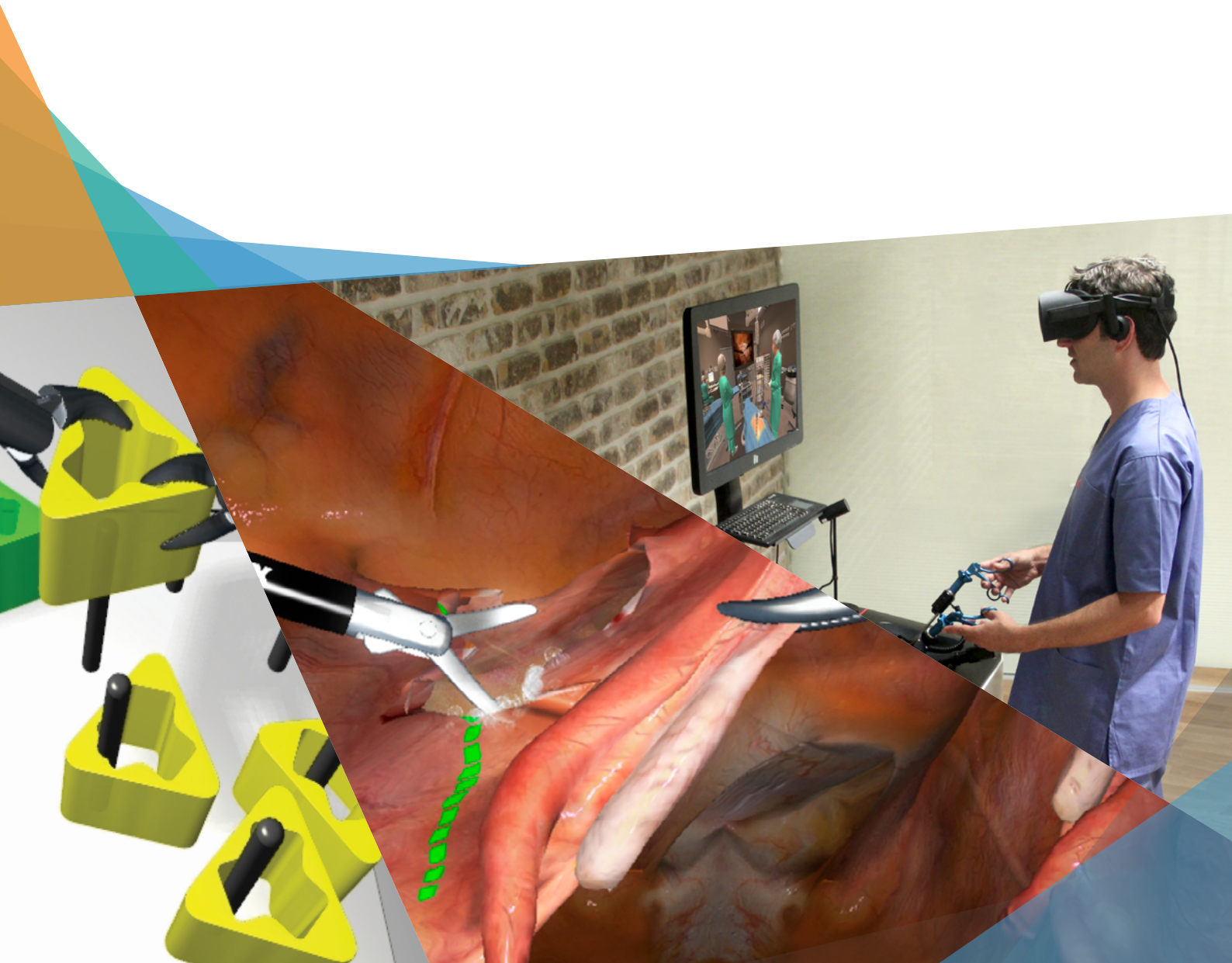




# LAP Mentor™





## The Gold standard of Laparoscopic Training Solutions

### PROCEDURAL TASKS

Interactively-guided techniques in various difficulty levels allow mastering the essential laparoscopic skills.

### COMPLETE CLINICAL PROCEDURES

Complex clinical scenarios with real time complications and injuries enable learners to experience different approaches to the procedure.

### TRUE-TO-LIFE TRAINING ENVIRONMENT

Combination of lifelike tactile feedback, detailed anatomy, realistic imaging, a wide range of surgical instruments and various trocar configurations.

## Virtual OR

The VR OR products allow trainees to work on the simulator while wearing a VR headset, which enables a complete immersive experience in a realistic 3D operating room setting, featuring the OR team, the patient, OR equipment and real-life sound diversions.

This setting provides the most true-to-life experience and teaches trainees how to cope with the stressful, and at times distracting, operating room atmosphere.

### EDUCATIONAL CONTENT

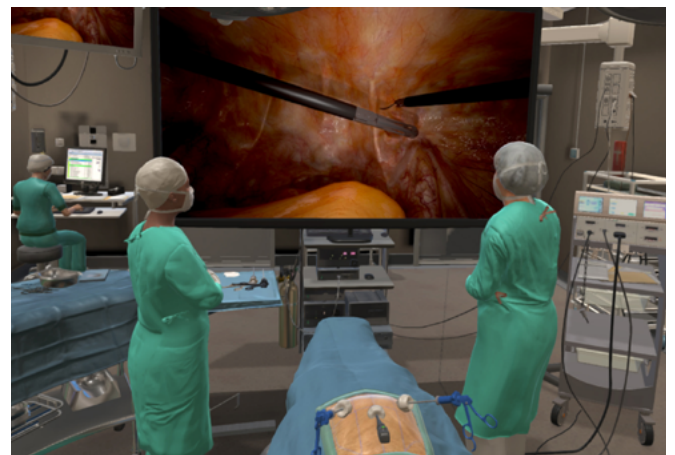
Didactic features and educational aids such as 3D anatomical maps, step-by-step real life videos, interactive instructions and ready-to-use courses.

### PERFORMANCE ASSESSMENT

Comprehensive objective reports and proficiency level setting tools allow for efficient tracking of the training progress.

### PROCTOR MODE

Enables real-time intervention of the proctor during the procedure to evaluate the trainee's decision making. The proctor can trigger injuries, modify tissue characteristics and limit tool selection.





The LAP Mentor™ is the most comprehensive evidence based simulator for essential laparoscopic skills and advanced complete clinical procedures.

## Team Training

Enabled by combining the LAP Mentor Express with the haptic LAP Mentor to allow mastering the surgical assistant's roles, practice non-technical skills and enhance team performance.

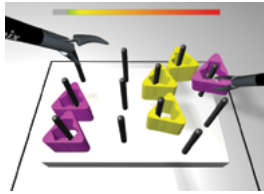
## Nurse tool selection

Allows the scrub nurse to select instruments during the case to enable effective surgeon-nurse teamwork, practice clear communication, and anticipate surgeon's needs.

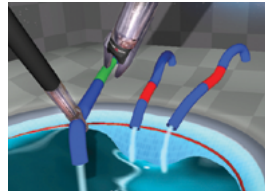


# Multidisciplinary library of modules for learners of all levels

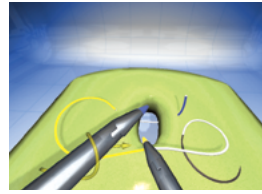
## TASKS AND SKILLS MODULES



Essential Tasks



Laparoscopic Basic Skills



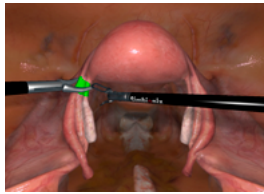
Basic and Advanced Suturing

## THORACIC SURGERY

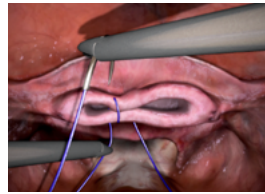


Lobectomy

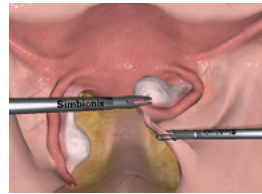
## GYN SURGERY



Hysterectomy

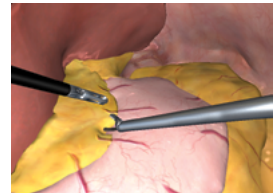


Vaginal Cuff Closure



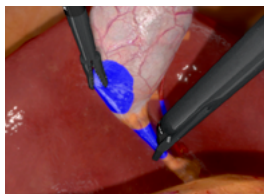
Essential Gynecology

## BARIATRIC SURGERY



Gastric Bypass

## GENERAL SURGERY



Procedural Tasks - Lap Chole

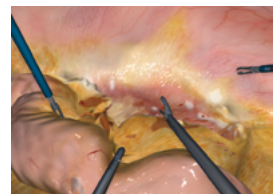


Lap Chole

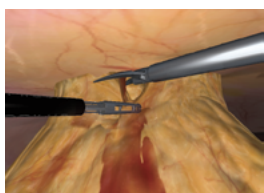


Cholangiography

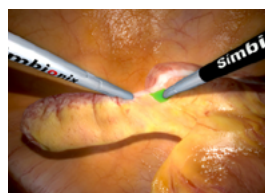
## COLORECTAL SURGERY



Sigmoidectomy



Incisional Hernia



Appendectomy



Inguinal Hernia

## UROLOGY SURGERY



Nephrectomy

# MentorLearn Simulator Curricula Management System

3D SYSTEMS' MULTIDISCIPLINARY SIMULATORS EFFORTLESSLY INTEGRATE INTO YOUR PROGRAM CURRICULUM



- Customizable curriculum incorporating training and didactics.
- Easy and efficient administration of simulator users.
- Online learning courses and video-based content.
- Proficiency based hands-on training.
- Performance reports with learning curve graphs.
- Recorded videos of the simulation sessions for debriefing.

Request a demo or more information at [healthcare@3dsystems.com](mailto:healthcare@3dsystems.com)

## Flexible Solutions

Multiple laparoscopic training platforms support the needs of various program requirements and budgets.



### LAP Mentor III

- Superior haptic feedback
- Ergonomic design: Adjustable height



### LAP Mentor Express

- Portable
- Cost effective
- Height adjustable tower
- Non-haptic



"The LAP Mentor offers us the best virtual reality training module on the market in order to help train our surgical residents across all disciplines. The LAP Mentor is the best tool that we have available from a virtual reality standpoint; it has excellent haptic feedback and offers a very realistic stepwise progression of the procedures."

**John Zografakis, MD, FACS**  
Summa Health System, Akron, Ohio

## Over 60 validation studies including VR to OR transfer of skills

- Laparoscopic warm-up exercises improve performance of senior-level trainees during laparoscopic renal surgery.  
*Lee JY et al, J Endourol. 2012 May;26(5):545-50*
- Laparoscopic basic skills and cholecystectomy VR training curriculum was defined and validated using structured scientific methodology.  
*Aggarwal et al, British Journal of Surgery 2009; 96: 1086-1093*

## Healthcare Solutions

3D Systems is a pioneer for healthcare solutions that improve outcomes which benefit both patients and surgeons. Our global team works with customers to help navigate technologies and provide support for surgical planning, training, device design, personalized medical technologies and 3D printing. We are dedicated to helping medical professionals train for, plan and practice complex medical procedures.

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