

surgicalscience



Simbionix LAP Mentor®



The Gold Standard of Laparoscopic Training Solutions

Features:

LAP Camera PRO

The new LAP Camera PRO provides a huge leap forward in laparoscopic camera realism, comparable with a real camera used in laparoscopic procedures.

Procedural Tasks

Essential laparoscopic skills are developed via interactively-guided tasks that support various difficulty levels.

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.

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.

Add-ons:

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.

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.

Nurse Tool Selection

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



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

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
- Team training
- Proctor Mode
- VR Headset

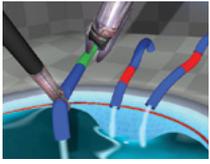


LAP Mentor Express

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

Multidisciplinary Library of Modules

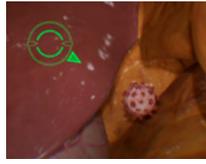
Tasks and Skills Modules



LAPAROSCOPIC BASIC SKILLS

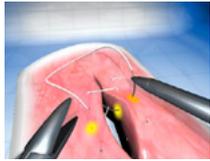


ESSENTIAL TASKS

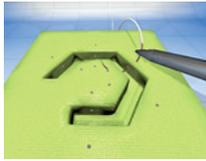


CAMERA MANIPULATION

Suturing

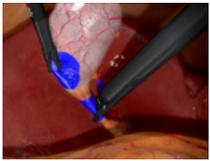


BASIC SUTURING



ADVANCED SUTURING

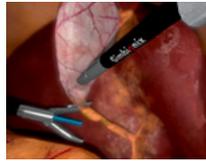
General Surgery



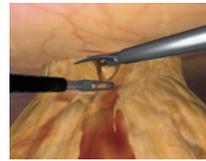
PROCEDURAL TASKS - LAP CHOLE



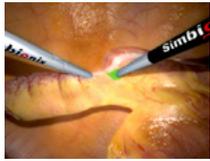
LAP CHOLE



CHOLANGIOGRAPHY



INCISIONAL HERNIA

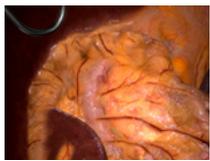


APPENDECTOMY

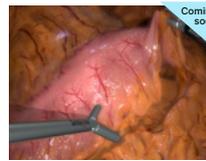


INGUINAL HERNIA

Gastric Surgery



NISSEN FUNDOPLICATION



DISTAL GASTRECTOMY

Bariatric Surgery



GASTRIC BYPASS

Colorectal Surgery



SIGMOIDECTOMY

Urology Surgery



NEPHRECTOMY

Thoracic Surgery



LOBECTOMY

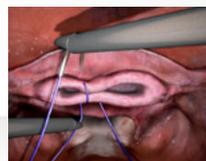
GYN Surgery



ESSENTIAL GYNECOLOGY



HYSTERECTOMY



VAGINAL CUFF CLOSURE



MYOMECTOMY SUTURING

LAP Mentor VR

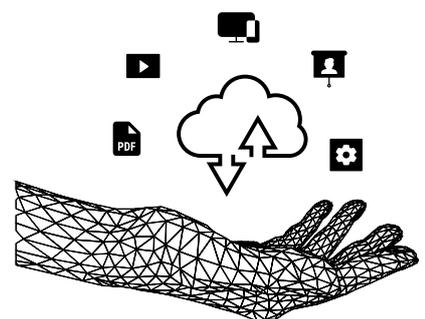
The LAP Mentor VR allows trainees to work on the simulator while wearing a VR headset, which enables a complete immersive experience in a realistic 3D operating room setting, featuring the OR team, the patient, OR equipment and real-life sound diversions.

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.



MentorLearn Cloud

Ask how the MentorLearn Cloud simulator curricula management system can support your Symbionix simulator. MentorLearn's many capabilities include remote simulator administration, online learning, anywhere results monitoring, proficiency based hands-on training, as well as simulation video capture that is ideal for debriefing.





"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



"LAP Mentor is perfect for learning the individual stages of the procedure, it allows you to make mistakes, which will be meticulously summarized even when it comes to the report of proper tissue management ... Basic procedures such as appendectomy and cholecystectomy are well developed. The cholecystectomy procedure is presented in various anatomical variants – as it happens in life"

Dr. Klaudia Korecka

Pediatric Surgeon, Upper Silesian
Child Health Center, Katowice, Poland

Over 80 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

"All appendectomy tasks showed construct validity. A novel goal-directed VR curriculum for laparoscopic appendectomy was constructed."

Sinitsky DM et al., Development of a structured virtual reality curriculum for laparoscopic appendectomy, The American Journal of Surgery, <https://doi.org/10.1016/j.amjsurg.2019.04.020>

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