LAP X HYBRID
SIMULATOR FOR LAPAROSCOPY

Positioning LAP-X HYBRID

LAP-X HYBRID is an innovative and powerful laparoscopic simulator for all minimally invasive surgery specialties, including but not limited to general surgery, gynecology, urology, gastro-intestinal surgery and pediatric surgery. LAP-X HYBRID offers the best of both worlds by combining virtual reality exercises and traditional box trainer exercises in one simulator, with the possibility of metrics measurement and performance recording as well as online remote assessment to perfectly organize, manage and standardize the training. LAP-X HYBRID provides an ideal training solution to help surgical educators save time, effort and money while achieving the best training result.

Functionality

The instructor can create a new curriculum by performing and recording new custom exercises. Nominal scores can be set, and the curriculum can be standardized. The trainee can watch the existing or newly created recordings before performing an exercise. After the exercise has been completed, the trainee will receive an automatic assessment by the software, based on nominal scores set by the instructor. The trainee can then submit the scores and video recording to the instructor for later assessment. The instructor can log in locally or online to review the trainee's scores and video recording, and is given the possibility to assess the performance and give comments or feedback.

Tools

LAP-X HYBRID includes e-learning content, exam questions and the ability to create a personal portfolio. LAP-X HYBRID also includes administration tools for educators that are easily incorporated in each hospital's training program, enabling the possibility of standardized training.

LAP-X HYBRID*

Benefits at a glance

- Affordably priced
- Scientifically proven
- Portable, compact and easy to set up
- Ideal for mandatory laparoscopic skills training
- Administration tool for training management
- Combination of virtual reality and box trainer
- Reduce learning curve, operational procedure time and instruction time
- Compatible with all box trainer exercises
- Possibility to use animal organs
- Unlimited user registration
- Record instruction videos and set nominal scores
- Instant feedback with measurement: duration, path lengths, mistakes
- Online remote assessment by instructors

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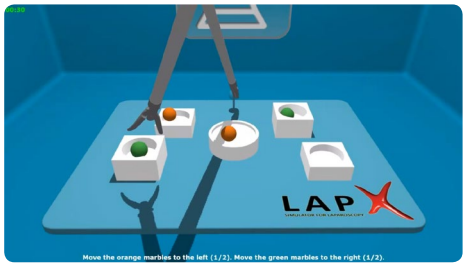
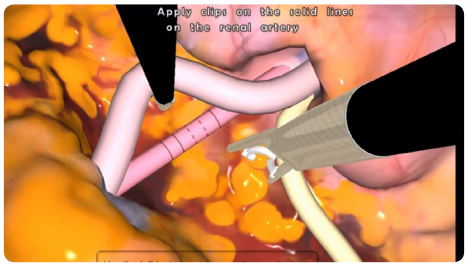
Modules



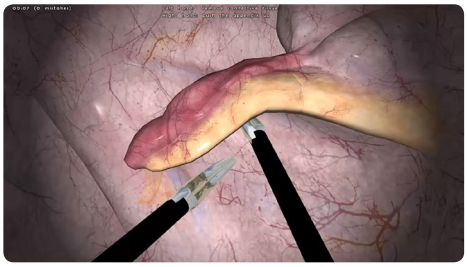
Basic Sills - Movement of Objects on Pins*

Basic skills
This module is designed to practice basic endoscope controlling skills in a non-anatomical environment.



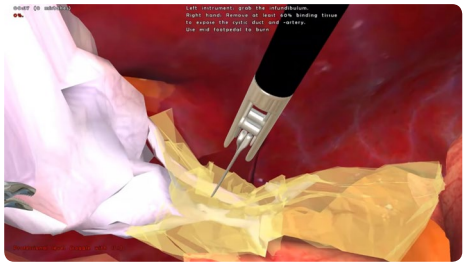
Clipping of the renal vein for a complete nephrectomy*

Complete nephrectomy
Intended to train a laparoscopic complete nephrectomy. This exercise allows clipping and cutting the renal vein, renal artery, and ureter.



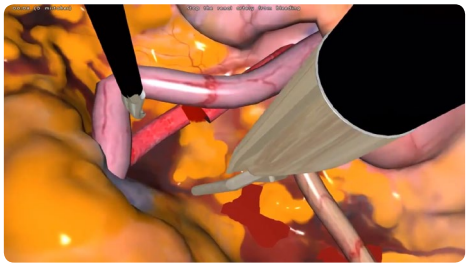
Removal of the appendix*

Laparoscopic appendectomy
This module is designed to train a laparoscopic appendectomy. Trainees can choose among different instruments, such as an EndoLoop, scissors, and/or EndoGIA.



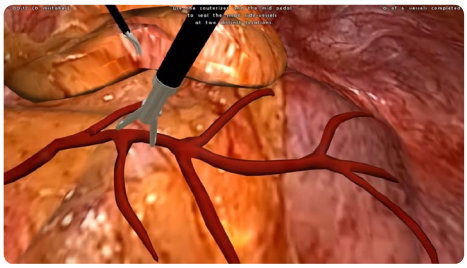
Removal of the gall bladder*

Laparoscopic cholecystectomy
Project and train a laparoscopic cholecystectomy intervention.



Solving kidney complications*

Preview kidney complication
Focuses on solving kidney complications up until performing a complete nephrectomy.



Vessel cauterization*

Vessel Cauterization
Designed for trainees to practice cauterization and cutting of vessels.

Practice navigation and anatomy*

Anatomy navigation
Made to test trainees' knowledge of the anatomical structures in the pelvic area, while simultaneously training controlling the endoscope.

System specifications
- Two controllers of 1.6 kg each
- Controller Dimensions: 22x15x32cm (WxDxH) each
- HD camera, led light, foot pedals
- Exercise platform 35x30x5cm (WxDxH)

Computer requirements
- Processor intel i7, 3.4GHz
- Operating system windows 7 or 8
- Memory >8 GB
- Video Card Nvidia® GeForce® GTX 650 or better

Light weight, portable, compact design

* Actual products may differ from shown hardware and software images
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