

Skills Training in Laparoscopy



LapVision

Surgical Simulator







LapVision

The **LapVision** simulator has been designed for surgeons and a wide range of medical specialists to safely learn, refine and retain laparoscopic skills. From basic to advanced levels of operation, LapVision provides a comprehensive educational platform that tests technical skills in a variety of surgical scenarios. Complete with a library of educational modules of common laparoscopic procedures, LapVision can be easily integrated into any surgical curriculum or training program.

4 | Surgical Simulator LapVision | 5



Line them up in your simulation centre then wheel them away when not in use!

- Convenient all-in-one structure
- Adjustable workspace height
- Plug and play
- Mobile

LapVision Standard

Instrument Simulation

- Realistic, wireless instruments that resemble their real counterparts
- Magnetic haptic feedback with true-to-life tissue resistance
- Zero delay tracking

Virtual OR

- 3D Anatomy Atlas
- Video hints, step-by-step instructions and video courses
- Complications and pathologies
- Free mode of operation
- Videos from real surgeries

Educational Features

- Individual user profiles
- Detailed automatic registration of all actions performed during exercises
- Course for basic skills training
- Additional suturing modules
- Extensive library of modules
- Screenshots and video recording
- Additional training modules can be added at anytime

LapVision SMART

The compact design and portable nature of LapVision SMART makes it the perfect solution not just for simulation centres but also workshops and seminars. Simply place it on the table and begin!

- Easy to set-up
- Expandable with additional virtual trocars – up to five in total



Library of Laparoscopic Modules



Important skills in laparoscopic cholecystectomy

- Traction and dissection of the peritoneum
- Dissection of structures in Calot's triangle
- Clipping and cutting of cystic artery and cystic duct
- Mobilisation of the gall bladder



Sigmoid colon resection

- Cutting vessels, mobilisation and intersection of the sigmoid colon
- Anastomosis



Full procedure of laparoscopic cholecystectomy

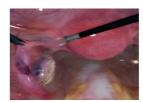
- Planned cholecystectomy with acute catarrhal cholecystitis
- Cholecystitis with phlegmonic cholecystitis
- Urgent cholecystectomy with gangrenous cholecystitis with local peritonitis



Splenectomy



Nephrectomy



Salpingo oophorectomy



Hernioplasty

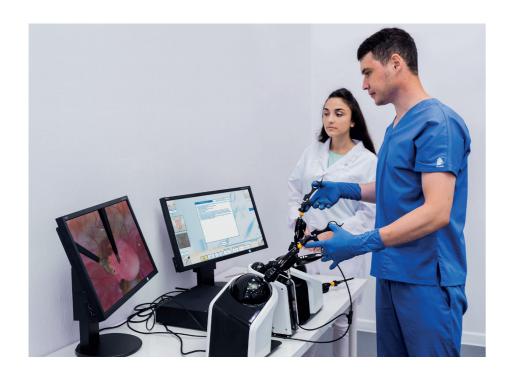
Immersive anatomies

- Internal organs and abdominal cavity are modelled using footage from real surgeries
- Internal bleeding that occurs during the exercise will lead to changes in the patient's condition including possible death
- When coagulating or dissecting, the tissues of the internal organs change and react accordingly
- Realistic fluid physics
- The abdominal cavity is operable, presenting the perfect learning opportunity to make surgical mistakes and then correct them.

... and many more!

6 | Surgical Simulator LapVision 7

Mastering use of laparoscopic instruments and camera



Laparoscope control

- Three camera angles:

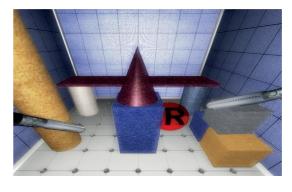


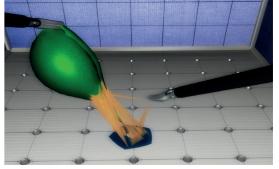
Highly realistic instruments support a seamless transition of skills to real surgical practice

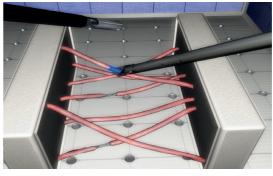
- Our proprietary Magnetic Haptic System provides realistic feedback
- Magnetic Haptic System is also more reliable than mechanical ones
- Wireless instruments can be completely removed from the port
- Instruments use integrated gyroscopes for easy tool selection and swap



Basic Skills







Refining dexterity in instrument handling

- · Control of camera with multiple viewing angles
- Vessel clipping and capturing
- Electrocoagulation operating skills
- Endoscopic scissor handling
- Suturing
- Knot tying

Have you seen our patient simulators?



Leonardo

Leonardo supports for high-quality simulation training in basic to advanced medical procedures, clinical team development and patient case management. He enables learners to fully immerse and challenge themselves as they put their individual and team skills to the test in time-critical emergency scenarios.



Mia

Mia is a state-of-the-art newborn simulator designed to meet the challenges of specialist training in neonatal care. From basic assessment to critical thinking skills in emergency scenarios, Mia will enable profound learning experiences for transference to real to clinical practice.



Arthur

Arthur has been designed to support those working in child health to effectively communicate, assess, diagnose and treat young patients in a diverse range of critical scenarios and in a variety of clinical settings.

For further information about any of our products within our range of patient and surgical simulators, please contact us at hello@mse-group.co

MedVision is a global company committed to the advancement of quality education in healthcare through its range of patient and surgical simulators. The MSE Group is the exclusive partner of MedVision in Europe.



hello@mse-group.co



www.mse-group.co





