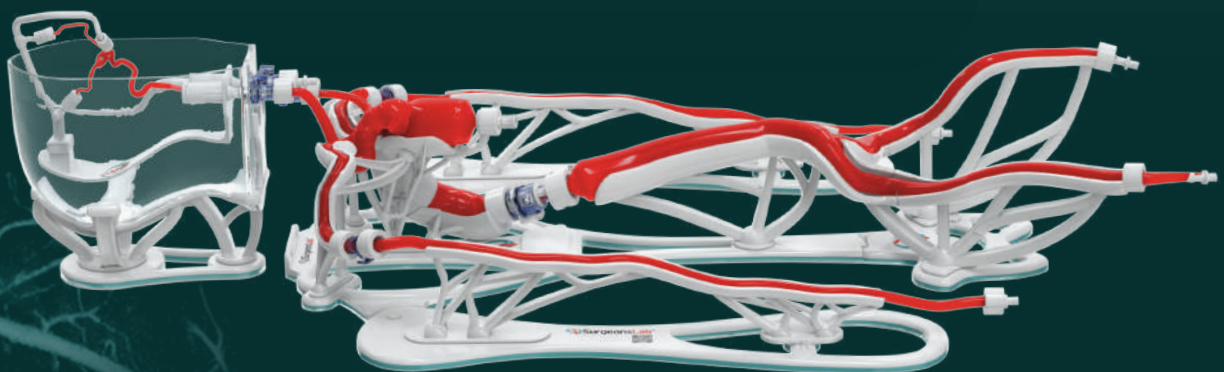




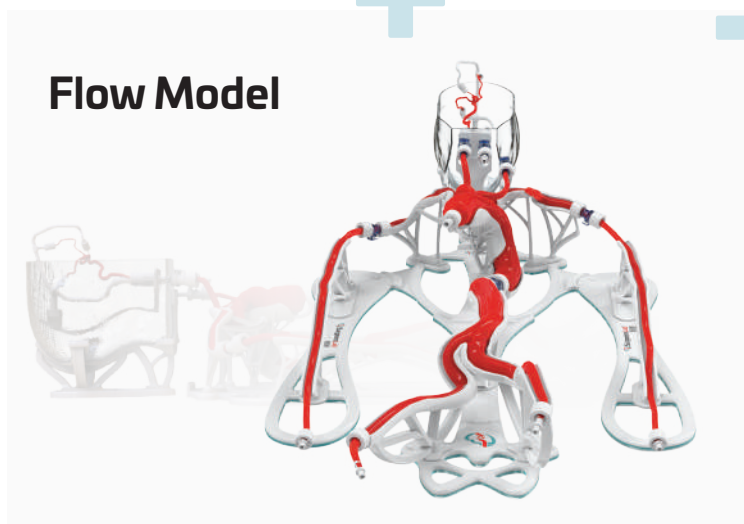
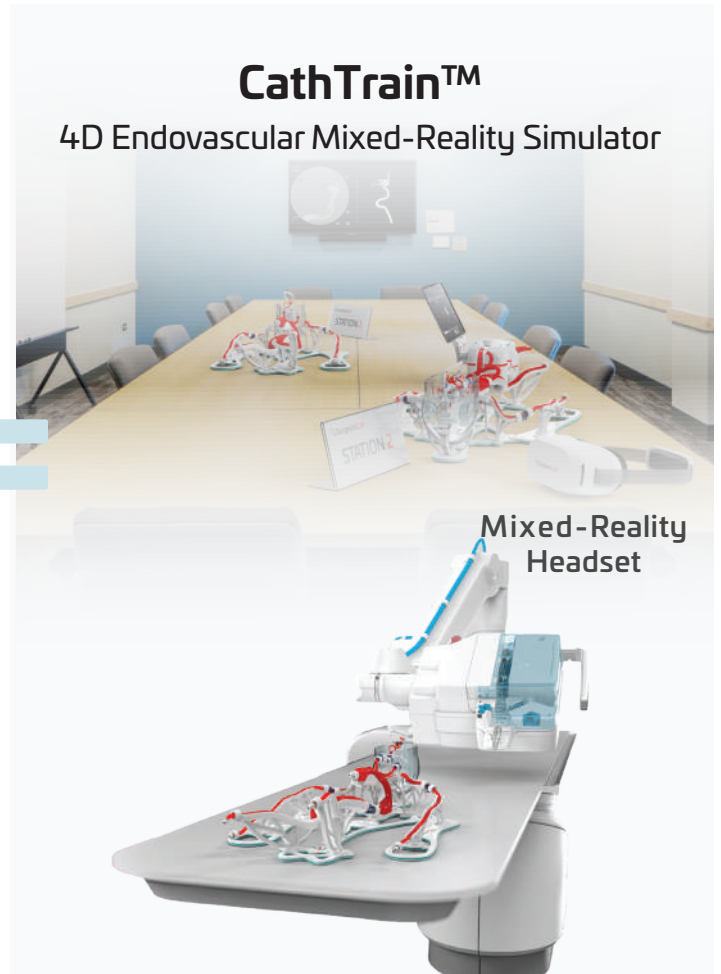
CathTrain[™]

4D Endovascular Simulator

Patient-specific replica in 2 days from patient DICOM to Model training



All Simulation modalities in **One Simulator**



Financial Options 




- 1 Purchase Model
- 2 Pay Per Month
- 3 Pay Per Training
- 4 Simulator Rental

Check the availability and book the Simulator:

<https://bookings.surgeonslab.com/>



Simulator Credentials

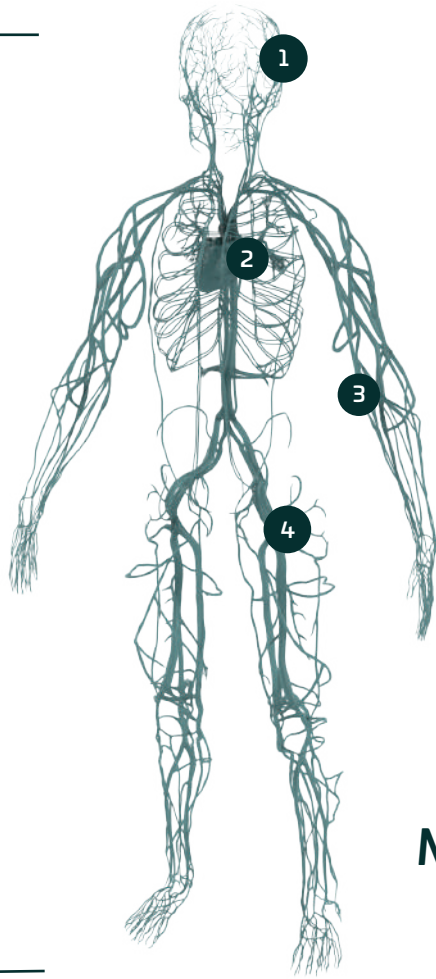
-  Self-Diagnostics
-  System Performance Health Data
-  Simulator tested and certified for CE under EMI/ EMC and environmental safety standards

General Service

 Remote maintenance support

 24/7 Chat Support (FAQ)

5 Full Body Vascular System



1 | Cerebral (CathPod™)



2 | Aortic Arch



Radial Artery



Femoral Artery

Flow Model Accessories

Modular Anatomical Models



Fast and Easy to **assemble**

All in one Easy to **carry in check-in luggage Box**



Exchangeable and swappable models

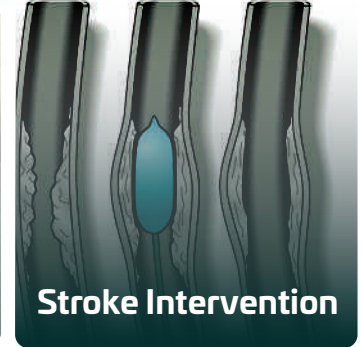
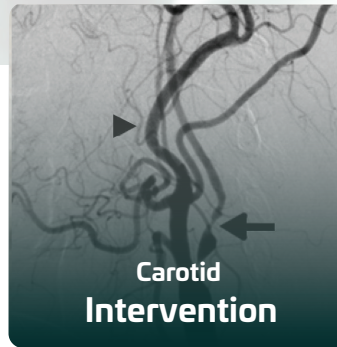
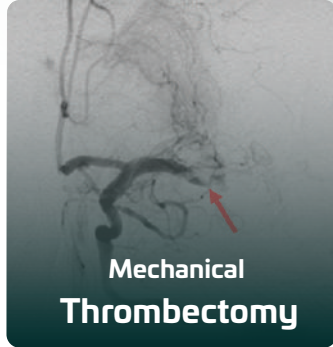
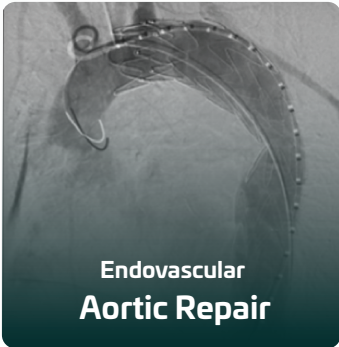
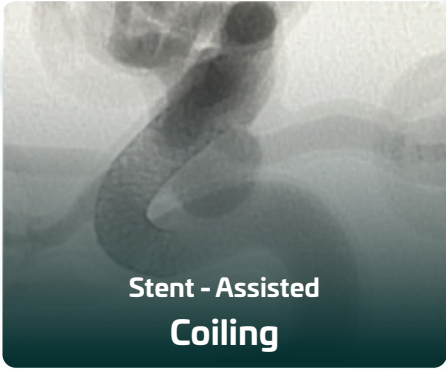
10 KG

Easily **Transportable**



Compact & Portable

Training Exercise Modules



Vascular Disease



Stroke



Valvular Heart Disease



Neurovascular

- ❖ Stroke Intervention
- ❖ Neurovascular Thrombectomy
- ❖ Neurovascular coiling or any other device deployment
- ❖ Carotid Intervention



Cardiovascular

- ❖ Endovascular Aortic Aneurysm Repair (EVAR)
- ❖ Transcatheter Aortic Valve Implantation (TAVI) procedure
- ❖ Transcatheter Hepatic Artery Embolization (THAE)
- ❖ Percutaneous Transluminal Recanalization (PTR)
- ❖ Aortic Stents Grafts
- ❖ Percutaneous Transluminal Coronary Angioplasty (PTCA)
- ❖ Percutaneous Transluminal Angioplasty (PTA) with a balloon or stents

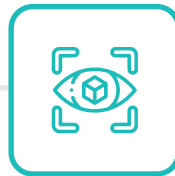


Validation

Computational model: Export and validate
Log planning approaches list of devices, techniques

Visualization

Visualization of patient images and simultaneous 3D reconstruction view

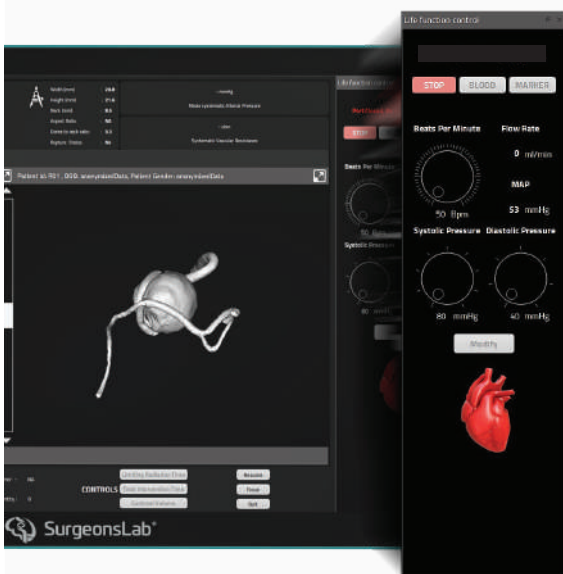


Personalized Authentication

Specific user login to each trainee
Assess performance individually

Life function control

Life function control facilitates the training of interventional radiology procedures under diverse scenarios by allowing for the adjustment of blood pressure and heart rate parameters. This enables comprehensive practice and preparation across a range of physiological conditions.



Performance Evaluation Profile

Receive complete and personalized feedback following interventional radiology training sessions from experts, facilitating the evaluation and grading of trainees. Share performance metrics, with mentors to obtain tailored guidance.



➤ Patient Insights

Experience detailed patient insights with visualized data on blood values, cardiac output, radiation exposure, and contrast dose.

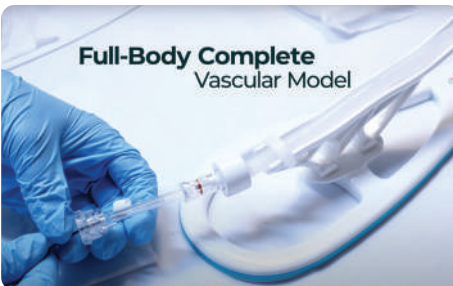
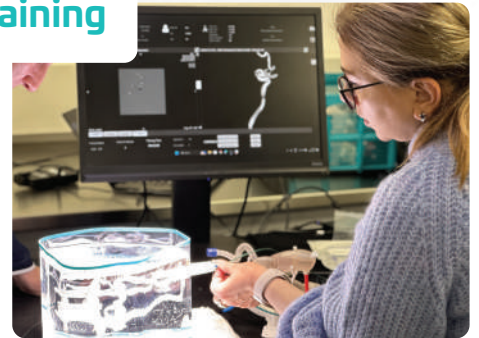
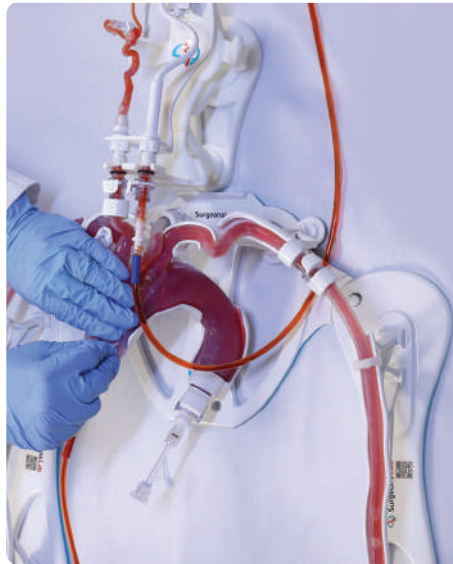
➤ DICOM Visualization

Experience DICOM visualization with 3D anatomical models, precise measurements, and user-friendly controls for enhanced usability, strategic planning, and analysis.

➤ Comprehensive Overview

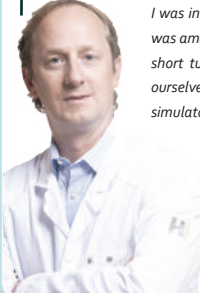
Get a complete overview, including patient-specific details and anatomical measures, such as dimensions, aspect ratio, and vascular conditions.

Hands-on Realistic Simulation Training



Testimonials

“

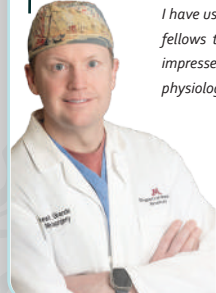


I was involved with the project from the initial development and was amazed to see how the models are made patient-specific in a short turnaround time. We sometimes used the model to train ourselves in complex cases and decision-making processes. The simulator models were realistic!

”

Prof. Pasquale Mordasini
Chief Physician, Neuroradiology, Kantonspital St. Gallen, Switzerland

“




I have used the CathTrain flow models from SurgeonsLab to train fellows to use a new web device at a hands-on course, I was impressed with the anatomical fidelity and patient-specific physiology the model and simulator offered.

”

Prof. Dr. Andrew Grande
Associate Professor and Residency Program Director, University of Minnesota, USA

“



The SurgeonsLab simulator was used for the pre-selected fellowship training program for senior residents. The models were coupled with C-ARM fluoro, helped deploy various devices, and permitted us to discuss all clinical aspects close to reality. The hands-on was very helpful in an interventional setting, and the software was impressive.

”

Prof. Mark Bain
Cerebrovascular Center, Cleveland Clinic Main Campus, Ohio, USA

“



We had a few weeks of training for a novel robotic guided stent-assisted coiling case; I was responsible for training new, experienced peers for the robotic procedure. SurgeonsLab flow model and mixed-reality platform helped deploy the device, team training, and didactic lecturing.

”

Prof. Vitor Mendes Pereira
St. Michael's Hospital, Toronto, Canada.

“



The models are exciting. It is a good tool for teaching endovascular techniques to the residents. We organized training days with our team, trying different patient-specific models and endovascular devices from simple to complex cases. One of the best models I have worked with is excellent for mentoring workshops

”

Dr. Gowtham Kuncha
Consultant and Neuroendovascular Surgeon, Meenakshi Mission Hospital, Madurai, India

About SurgeonsLab AG

SurgeonsLab AG, a MedTech company headquartered in Switzerland, is building products that can simulate complex micro neurosurgical and interventional procedures for training doctors to improve precision and skill in treating patients safely.

CathTrain™ Endovascular Simulator

CathTrain™ Simulator is a dedicated stand-alone autonomous Endovascular simulator that allows endovascular interventional radiologists to upskill themselves by training in a realistic environment without involving patients and animals under mixed reality patient-specific scenarios.




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Watch our other testimonials and interventional simulation videos on our YouTube channel

