

RADIATION SAFETY TRAINER

The **Mentice Radiation Safety Trainer** is a portable endovascular simulator combining hands-on training of radiation safety with basic angiography and intervention skills.



The Radiation Safety Trainer is a high-fidelity simulator platform providing hands-on radiation safety and endovascular training. The system is highly portable and consists of a haptic device, a dedicated control box and an external screen.

A large variety of peripheral and coronary angiography as well as coronary intervention cases provide training on catheter and wire manipulation skills as well as basic intervention skills. Creating dose awareness and learning to work according to ALARA principles is achieved by live dose readings and dynamic heatmap visualizations for patient and operator doses.

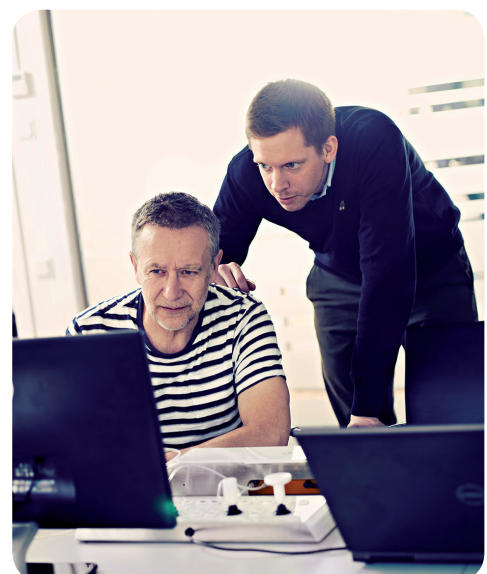


Mentice Radiation Safety Trainer provides:

- High-fidelity simulation — optimal environment for hand-eye skill training
- Radiation safety training combined with angiography and interventions in 40 patient cases
- Use of actual devices to enhance clinical realism — train with the same devices used in clinical practice
- External control box — full control of all cath lab equipment

The Radiation Safety Trainer is highly portable and can be used in any training location:

- Flexible and intuitive to set up and use
- Small footprint — can be placed anywhere
- Robust and lightweight — possible to check-in on flights



Training objectives

- Balancing between delivered dose and image quality – ALARA principle
- Understanding when and why high doses occur
- Use of magnification, collimation, wedge filters, LIH and dose level
- Reducing dose for steep angulation or large patients
- Awareness of staff positions relative to direct beam and scatter
- Choosing an appropriate puncture site
- Choice of clinical devices for coronary and peripheral angiography as well as coronary intervention
- Safe manipulation of devices in coronary and peripheral vasculature
- Identification of lesions and anomalies
- Acquisition of LV-grams and ejection fraction
- Responding to changes in vital signs and ECG

Functionality and Features

Technical data

- **Components**
 - VIST ELS Device
 - Laptop
 - 22.5" HD Monitor
 - Control Box
- **Power**
 - 100-240V~
- **Accessories**
 - Foot pedal
 - Syringe
 - Indeflator
- **Packaging**
 - 1 flight case 63 x 50 x 30cm, 25kg
- **Setup**
 - Recommended table size 120 x 60cm

Features

- Portable
- Supports real clinical devices
- Robust design
- External control box for fluoroscopy and table controls
- Plug and play setup

VIST® -Lab



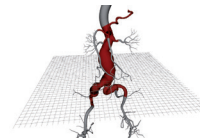
Our stationary and flexible simulation platform. The optimal solution for realistic work flow and team training.

VIST® G5



A portable high-fidelity simulator. Robust and intuitive to set up and use, small foot print – possible to check in on flights.

VIST® Case-It



Import patient specific anatomies, stitch them onto a template to create a full patient anatomy for procedural training.

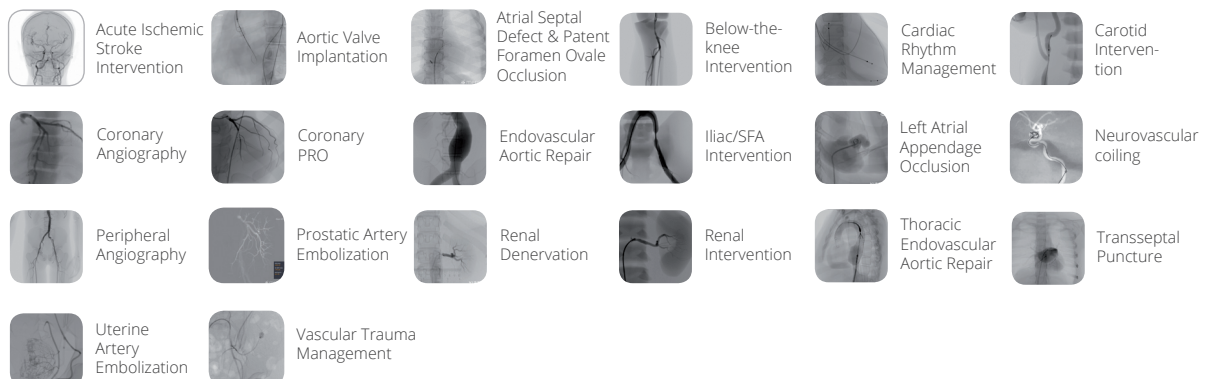
Validation



- ✓ Face and content validity
- ✓ Construct validity
- ✓ Training potential
- ✓ Transfer of training

Mentice® Training Modules

A structured and comprehensive suite of modules with clearly defined learning objectives giving trainees exposure to a wide range of patient scenarios and anatomical variations.



MENTICE was founded in 1999 and pioneered virtual reality for medical training. Today Mentice is the global leader in medical vascular simulation with its headquarter in Gothenburg, Sweden, and more than 600 vascular simulator installations all over the world.