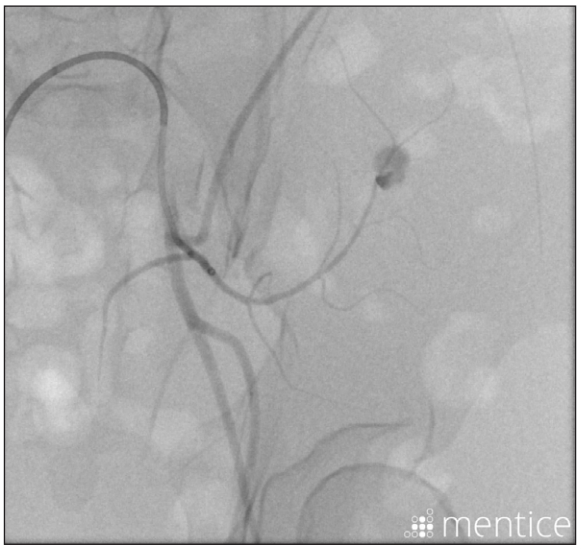
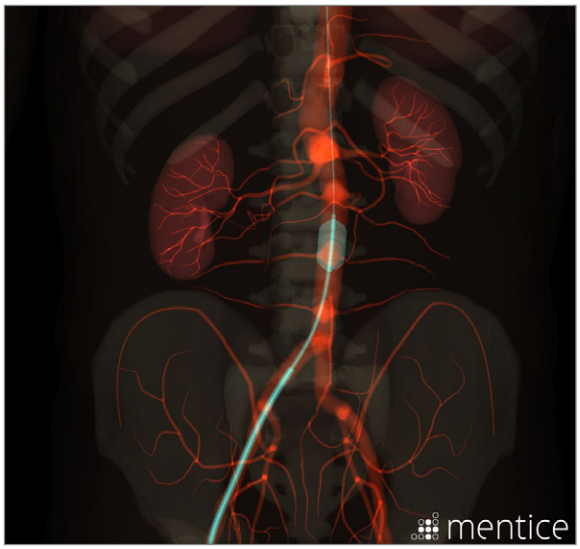
Vascular Trauma Management

Procedural Training Module

Mentice Vascular Trauma Management is designed for trauma surgeons, interventional radiologists and emergency medicine professionals in order to build confidence in endovascular techniques. This module invites discussion on the management of trauma and internal hemorrhage in a realistic, stress-free simulated environment. The intended work flow supports and develops the operator's and the team's understanding of endovascular treatment methods. The Trauma Management module includes cases covering both REBOA (Resuscitative Endovascular Balloon Occlusion of the Aorta) and embolization techniques for internal hemorrhage control.





The module assumes familiarity with concepts of emergency medicine and some prior interventional experience. Mentice Trauma Management provides essential procedural and technical skills training for REBOA to temporize hemorrhagic shock such as blunt or penetrating abdominal trauma, pelvic fractures causing pelvic hemorrhage, ruptured abdominal aortic aneurysms, or the crashing trauma patient.

Additionally, cases provide staged training in embolization techniques for the more experienced team, including correctly identifying and controlling pelvic hemorrhage. Numerous types of embolotherapy are available, including gelatin sponges and coil embolization, and the staged cases include varying number of bleeding sites and difficulty level. Accurate tactile and visual feedback facilitates the trainee's understanding of proper use of common endovascular trauma management techniques.

An ideal platform for:

- Cross-specialty planning and communication in the trauma center
- Understanding endovascular management of vascular trauma
- Training the REBOA technique in a stepwise approach
- Individual or team training of various trauma embolization techniques
- Training of essential endovascular technical and manipulation skills

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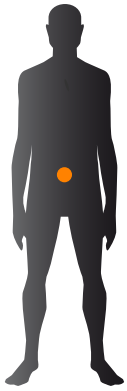


Endovascular management of peripheral vascular trauma, designed for trauma surgeons, radiologists and multi-disciplinary teams.

mentice

Functionality & Features

- Realistic device and anatomy appearance
- Interactive hemodynamics and vital signs
- Support for multiple REBOA techniques
- Easy-to-use selection of embolization agents and delivery
- Gelatin sponge embolization (slurry/torpedo)
- Bleeding sources in branches of internal iliac and lumbar arteries
- Dynamic vasospasms based on tool navigation skills
- Support for “sandwich” technique (coils and gelatin sponges combined)

Procedural training objectives

- Selection of appropriate clinical devices
- Correct location for REBOA balloon placement (zones I-III)
- Tactile feedback for placement and inflation guidance for REBOA
- REBOA with or without fluoroscopy guidance
- Aortic occlusion implementation
- Embolic material choice and access technique
- Tips and tricks on how to avoid embolization of non-target vessels
- Preserve circulation in adjacent vessel branches
- Logistics to hemorrhage control

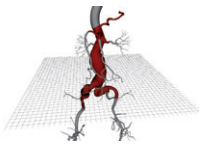
VIST® -Lab

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

VIST® -C

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 and 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

VIST® 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.


Neuro Intervention


Carotid Intervention


Coronary Angiography


Endovascular Aortic Repair


Peripheral Angiography


Below-the-knee Intervention


Coronary PRO


Transseptal Puncture


Cardiac Rhythm Management


Uterine Artery Embolization


Iliac/SFA Intervention


Renal Intervention


Renal Denervation


Left Atrial Appendage Occlusion


Acute Stroke Intervention


Thoracic Endovascular Aortic Repair


Aortic Valve Implantation


Vascular Trauma Management

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

Contact us to learn more about simulation and how it can benefit your training efforts:
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