ACUTE ISCHEMIC STROKE INTERVENTION

Expand understanding of and skills in endovascular ischemic stroke treatment.

Acute Ischemic Stroke Intervention is designed for the fields of interventional neuroradiology and neurosurgery, or specialists in adjacent fields. The module allows for safe and effective training of individuals and teams, both stand-alone or as part of an endovascular stroke program. The module supports VIST® Case-It, which allows end users to import real cases from anonymous DICOM data or creation of cases using template anatomies. Thus an up-to-date and unique comprehensive training library can be built directly from the hospital’s own practice.

This module assumes familiarity with neurology, preoperative CTA/MRA and experience with endovascular catheterization and intervention. Mechanical thrombectomy devices including stent retrievers and aspiration catheters, as well as options to use advanced viewing with biplane fluoroscopy, 3D overlay and 3DRA, are included for teaching of state-of-the-art techniques.

By importing real-life hospital cases from CTA or MRA, training possibilities are virtually endless and scenarios can be added and adapted to fit custom training objectives.

An ideal platform for:

- Safe training of endovascular stroke treatment in a stepwise approach
- Use of up-to-date treatment options: techniques and devices
- Training in required technical and manipulation skills
- Review, validation and amendment of the procedure plan
**Functionality and Features**

- Stent retrievers and aspiration catheters (e.g. ADAPT) included
- Type 1, 2, 3 arch and bicuspid aortic takeoff variations
- Advanced viewing with biplane C-arm, DSA, shutters, 3D overlay and 3DRA
- Recorded cine loops can be exported for post-op review
- Various cerebral anatomy variation with different difficulty
- Didactic aspiration visualization
- VIST® Case-It support makes it possible to import user’s own cases

**Learning objectives**

- Performing a safe carotid access in difficult aortic arch variations (e.g. avoiding vessel scraping, advancing wire without fluoroscopy).
- Manipulating C-arm projection and magnification to allow assessing thrombus location and access to it as well as using roadmaps.
- Performing direct aspiration including locating start of thrombus, placing aspiration catheter close to thrombus and assessing resulting flow from aspiration.
- Performing aspiration through collection of thrombus at tip of catheter and understanding the flow feedback through catheter (ADAPT).
- Learning a safe technique (under aspiration, single motion) to withdraw a stentriever.
- Situation management and change of strategy.
- Management of thrombus with possible underlying stenosis.
- Carotid artery stenosis management considering distal thrombus.
- Navigating a tortuous carotid artery and understanding haptic feedback on aspiration catheter.
- Management of dissections, spasms and distal migration.

**VIST®-Lab**

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

**VIST® G5**

A portable high-fidelity simulator. Robust and intuitive to set up and use, small footprint – 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.