

# Iliac and SFA Intervention 8

## Procedural Training Module

### Mentice Iliac and Superficial Femoral Artery (SFA) Intervention

module is designed for physicians and medical professionals to learn the interventional skills specific to peripheral artery diseases extending to the popliteal artery. The module provides the essentials for physicians looking to become committed interventionalists. The iliac and SFA module offers an introduction to endovascular intervention in the peripheral arteries in a learner focused, risk-free training environment.

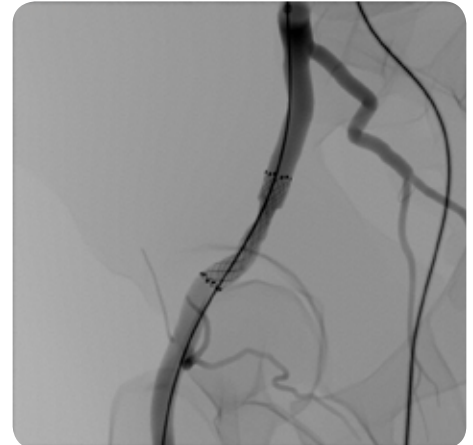
### Educational Context and Skills

Iliac artery angioplasty and stenting are often the first endovascular treatments undertaken by residents and fellows learning to become endovascular specialists. The procedural steps, the use of clinical devices with its associated risks and the technical performance can be learned, demonstrated and assessed within the Iliac and SFA module. There are ipsilateral and contralateral approaches to lesions in the common and external iliac arteries as well as antegrade and retrograde approaches to SFA lesions.

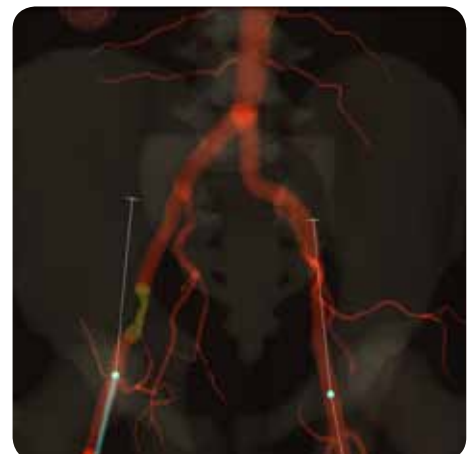
- Procedure planning and options based on patient scenarios
- Introduction to clinical devices used in Iliac and SFA Intervention
- Learning the procedural steps for Iliac and SFA Intervention
- Acquisition of pertinent technical and manipulation skills
- Becoming familiar with ipsilateral and contralateral approaches
- Navigation of iliac arteries, SFA and the aortic bifurcation
- Angiographic review prior to treatment
- Review and validation or amendment to the procedure plan and inventory requirements
- Navigation of wire through lesion and correct positioning to provide stability
- Assess the need for pre-dilatation and its associated risks
- Selection of balloon, balloon expandable stent or self-expanding stent
- Careful and appropriate placement of balloon or stent
- Assess the need for post dilatation and perform if needed
- Performance of post treatment angiogram to assess the outcome
- Appropriate withdrawal and removal of devices

### Functionality and Features

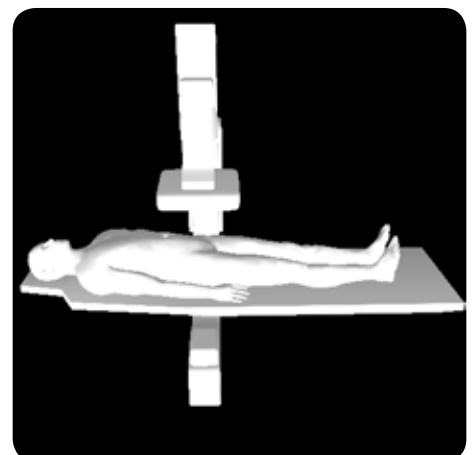
- Intuitive user interface
- Device panel displays type and status of selected devices
- Detailed metrics for assessment and debriefing
- Clinical scenarios ensuring structured patient oriented learning
- Vital signs responsive to catheter manipulation and placement
- AO pressure curves
- Realistic device behavior requiring appropriate device selection



Contra lateral treatment of lesion



3D view of lesion in the external iliac artery



External view of the virtual patient

## Features

- Detailed patient scenarios  
Demographics, clinical presentation, medical history, current medications, lab values, non invasive tests, base line vitals
- Full C-arm and table manipulation  
LAO/RAO & CRA/CAU angulations, image intensifier control, table height adjustment, magnification, brightness
- Imaging modalities  
Positive X-ray, negative X-ray and 3D mode (unique to simulation)
- Projection controls  
3 pre-set standard projectionst, possible to save user preferred projections for later use in training case
- Introducer sheath  
Possibility to select introducer sheath size
- Contrast injections  
- Manual syringe injection  
- Power injector with user definable volume and injection rate
- Imaging  
- Series: cine recording, playback, acquisition of landmarks, ability to return the C-arm to previous projections and blending of landmarks  
- Measurement: easy to use vessel and lesion measurement system
- Vital signs - dynamic information  
Provides accurate calculations of haemodynamic and electrophysiologic data obtained during catheterization  
- Aortic (AO) pressure curves  
- 12-lead ECG, ability to select any 3 for dynamic display  
- Blood pressure, heart rate, respiratory rate, oxygen saturation displayed

- Antegrade and retrograde puncture sites available
- Ipsilateral and contralateral approaches available
- "Fluoro & Vitals" screen  
- Realistic fluoroscopic image  
- Status bar with case statistics  
- Vital signs always visible  
- X-ray reference image of patient positioning  
- Device status panel showing selected and active devices

## Inventory

- Diagnostic catheters
- .035" standard and hydrophilic guide wires
- Guiding sheaths and guide catheters
- .018" wires
- .035" and .018" balloons and balloon expandable stents
- Self-expanding stents

## Simulation

- 17 Iliac and SFA cases  
Providing variety of challenges
- Anatomically accurate simulation
- Realistic device behavior
- Vital signs displayed on live screen and control screen

## VIST® - Family of Simulation Solutions

provides a relevant, realistic teaching and learning environment for hands-on training of angiographic and interventional skills.

### VIST® Simulator Systems

The VIST® and the VIST®-C systems share unique advantages in terms of highest fidelity, clinical realism and use of actual clinical devices.



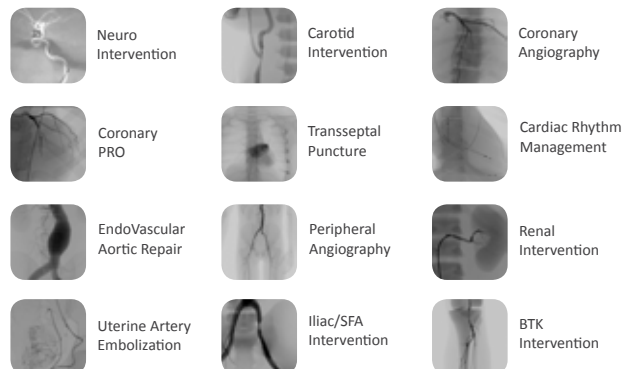
VIST® Lab is compatible with both VIST® and VIST®-C systems.

VIST®-C is a fully portable high-fidelity simulator.



### 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.



**MENTICE** is a global medical simulation company founded in 1999 with headquarters in Gothenburg, Sweden. The company pioneered virtual reality for medical training and is today the global leader in endovascular simulation.

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

• HQ: +46-31-339 94 00 / info@mentice.com • US: +1-877-MENTICE / usinfo@mentice.com

