

# Peripheral Angiography 8

## Procedural Training Module for VIST® and VIST®-C System

**Mentice Peripheral Angiography training module** is designed for health-care professionals to learn the essential skills in a risk-free training environment. The module provides a range of patient cases with different anatomies and scenarios, facilitating technical and procedural skill training for this diagnostic procedure.

### Educational Context and Skills

The Mentice Peripheral Angiography module provides the opportunity to teach core angiography skills. It represents comprehensive training in medical education, with learning objectives designed to meet the needs of endovascular trainees and other members of the procedure team.

#### Core skills

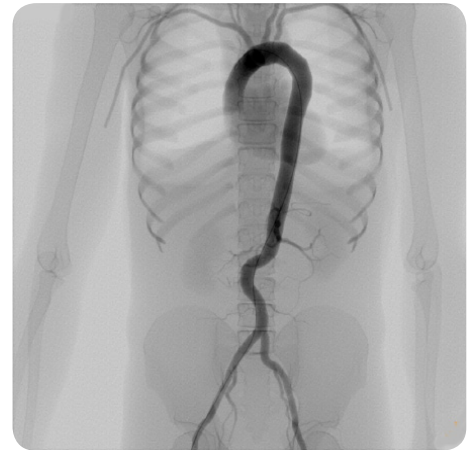
- Introduction to clinical devices used in peripheral angiography
- Utilization of X-ray equipment
- Principles of radiation hygiene during use of fluoroscopy
- Learning the procedural steps for peripheral angiography
- Acquisition of pertinent technical and manipulation skills
- Diagnosis and decision on treatment options

#### Angiography skills

- Gain an understanding of peripheral vascular anatomies
- Determine an appropriate puncture site
- Select and use appropriate introducers, wires and catheters
- Handling of flush catheters for none-selective angiography
- Utilize table and C-arm to follow the run-off
- Handling of selective catheters
- Acquire skills to navigating tortuous anatomies
- Learning different techniques for crossing the aortic bifurcation
- Understand and respond to changes in haemodynamics
- Recognition of normal and variant anatomies
- Understanding of projections and appropriate C-arm positioning
- Location and identification of lesions

### 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
- Power injector with user definable volume and flow rate
- Medication to enhance procedural realism
- Vital signs responsive to catheter manipulation and placement
- Vasculature to the toes for blood flow assessment
- Realistic device behavior requiring appropriate device selection



Comprehensive anatomy for assessment or reshaping active catheters



3D - view of the aortic bifurcation



Vasculature to the toes

## Features

- Detailed patient scenarios  
Demographics, clinical presentation, medical history, current medications, lab values, non invasive tests and 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
- Puncture site  
Option to select right or left femoral arteries, retrograde or antegrade approach
- 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
  - Catheter based aortic (AO) pressure
  - 12-lead ECG, ability to select any 3 for dynamic display
  - Blood pressure, heart rate, respiratory rate, oxygen saturation displayed

- Medication  
Capability to administer 15 different drugs including heparin, morphine, nitro-glycerin
- "Fluoro & Vitals" screen
  - Realistic fluoroscopic image
  - Status bar with key case statistics
  - Vital signs always visible
  - X-ray reference image of patient positioning
  - Device status panel showing selected and active devices

## Inventory

- Range of 20 selective catheter shapes and sizes including Contra, vertebral, simmons sidewinder, RDC, straight
- 3 flush catheter shapes  
Pigtail, modified pigtail and straight
- Range of standard and hydrophilic wires

## Simulation

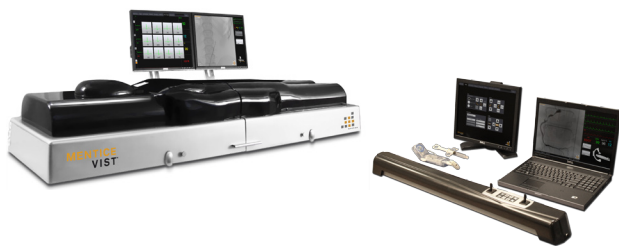
- 25 Peripheral angiography cases
  - Renal artery stenoses (9)
  - Iliac/SFA stenoses (10)
  - Below the knee stenoses (6) with comprehensive vasculature
- Anatomically and haemodynamically accurate simulation  
Chase the run-off and observe the change to the blood flow distal to the stenoses
- Realistic device behavior
- Fully integrated vital signs  
Including normal and damping traces, all responsive to catheter manipulation and placement

## VIST® - Family of Simulation Solutions

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

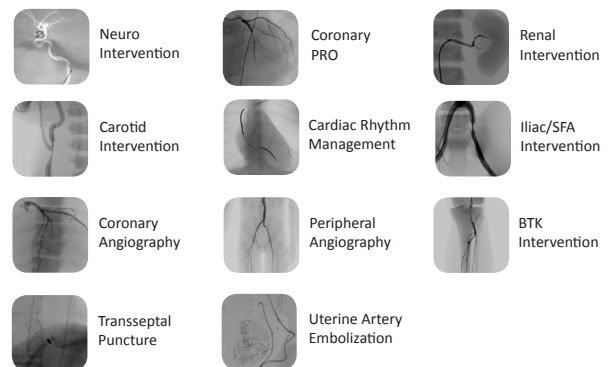
### VIST® Simulator Systems

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



### 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 you and your training efforts:

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