

Below The Knee Intervention 8

Procedural Training Module

Mentice Below The Knee (BTK) Intervention module is designed for physicians and medical professionals performing interventional procedures in lower leg. The module provides a training opportunity for limb-salvaging procedures in critical ischemia, in a learner focused and risk-free environment.

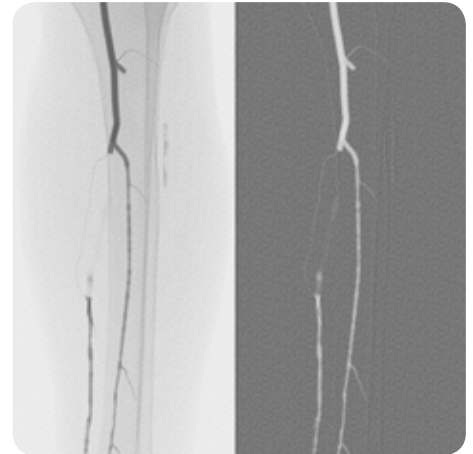
Educational Context and Skills

The BTK module assumes experience in peripheral angiography and conversance with interventional devices and associated techniques. Mentice provides essential procedural and technical skills training intended for residents and fellows focusing on how to methodically gain knowledge in BTK procedures. The unique module has five cases with a variety of lesions and treatment challenges.

- Endovascular treatment planning and options based on patient scenarios
- Introduction to clinical devices used in BTK Intervention
- Image management; C-arm movements and utilization of fluoroscopy below the knee
- Supports step by step procedure for BTK Interventions
- Acquisition of pertinent technical and manipulation skills
- Selection of appropriate tools for recanalisation
- Review of angiography prior to treatment
- Review, validation and amendment of the procedure plan and inventory requirements
- Exchange of guide wire platforms 0.35"/ 0.18"/ 0.14"
- Navigation of wire through the lesion and position it to provide stability
- Controlled advancement of stent/balloon into the lesion
- Completion of post treatment angiogram to assess outcome
- Appropriate withdrawal and removal of devices from the leg
- PTA/bail-out stenting

Functionality and Features

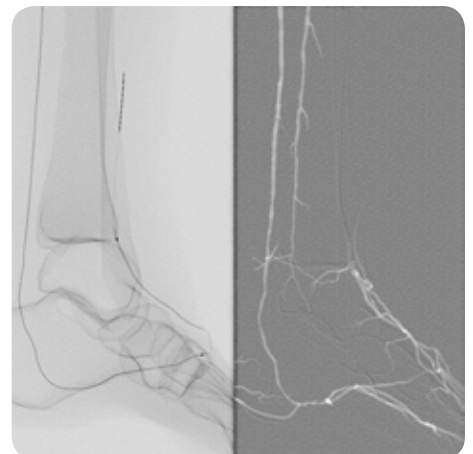
- Patient interaction – Rotatable leg
- Radiation management – DSA, Roadmap & Shutters
- Complication management
- Supports Pedal-Plantar Loop Technique
- Detailed metrics for assessment and debriefing
- Clinical scenarios ensuring structured patient oriented learning
- Realistic device behavior requiring appropriate device selection



Simulated fluoroscopy



3D view of simulated vasculature



Pedal-Plantar Loop Technique

Features

- **Detailed patient scenarios**
Demographics, clinical presentation, medical history, current medications, lab values, non-invasive tests and baseline vitals
- **Full C-arm and table manipulation**
LAO/RAO & CRA/CAU angulations, image intensifier control, table height adjustment, magnification, brightness
- **Imaging modalities**
DSA, Roadmap, Positive X-ray, negative X-ray and 3D mode (unique to simulation)
- **Radiation dose control**
Easy access to features that minimize radiation dose exposure
- **Projection controls**
3 pre-set standard projections, 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 and power injector
- **Series**
 - DSA & cine recording, playback, ability to return the C-arm to previous projections
 - Measurement: easy to use vessel and lesion measurement system
- **Vital signs - dynamic information**
Provides accurate calculations of certain haemodynamic and EP data obtained during catheterization
 - 12-lead ECG, ability to select any 3 for dynamic display
 - Blood pressure, heart rate, respiratory rate, oxygen saturation displayed
- **"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

- Sheaths
- Diagnostic catheters
- .035" standard and hydrophilic guide wires
- .014" and .018" wires
- .014" and .018" balloons
- .014" and .018" balloon expandable stents
- .014" and .018" self expanding stents

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.



Neuro Intervention



Carotid Intervention



Coronary Angiography



Coronary PRO



Transseptal Puncture



Cardiac Rhythm Management



EndoVascular Aortic Repair



Peripheral Angiography



Renal Intervention



Uterine Artery Embolization



Iliac/SFA Intervention



BTK Intervention

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:

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