PROSTATIC ARTERY EMBOLIZATION

Learn and perfect the procedural and decision-making skills needed to perform embolization to treat benign prostatic hyperplasia.

Prostatic Artery Embolization (PAE) is a unique training solution designed for interventional radiologists starting to perform embolization of the prostatic artery, or who wish to maintain their advanced skills in this challenging procedure. PAE requires highly developed microcatheter and microwire skills, as well as strategic decision making to avoid potentially hazardous outcomes. The training module was designed in collaboration with two of the world’s leading physicians in the field: Dr. Marc Sapoval and Dr. Shivank Bhatia. The available patient portfolio offers guidance and best practice tips as well as a step-wise approach to reach proficiency.

The Mentice PAE training simulation module focuses on: 1) Increasing the operator’s knowledge of the anatomy; 2) Training and honing the advanced microcatheter and microwire skills necessary to successfully catheterize the challenging anatomy.

A guide for identifying the prostatic artery is provided, as well as guidance from experts on how and where to embolize.

Essential imaging functionality such as cone beam computed tomography is available during the cases to prevent non-target embolization. Due to the long procedural and fluoroscopic time of PAE, training in the proper usage of imaging equipment, and working according to the ALARA (as low as reasonable achievable) principle is an integral part of the training module.

All the above can be learned in a safe environment, without risk of complications and radiation exposure. Extensive metrics and measurements are collected throughout the training cases. These provide the user with a performance result that can be used to chart personal progress, or as a comparison to an expert reference.

An ideal platform for:

- Acquiring and maintaining an advanced endovascular skill set
- Learning the vast variations of the angiographic anatomy of the internal iliac artery
- Identifying the prostatic artery
- Catheterization of the prostatic artery
- Avoiding non-target embolization and managing collateral vasculature
**Functionality and Features**

- Highly detailed anatomies derived from real patient cases
- Identification guide to the prostatic artery
- Angiographic anatomy labeling
- Colored 3D mode anatomy learning
- Visual cues for optimal microcatheter placement
- Cone beam computed tomography
- Visual presentation of non-target embolization
- Selection of size and mixture of embolic solution
- Detailed embolization logics
- Support for PErFecTED technique
- Large number of metrics and measurements
- Progress chart and comparison to expert reference

**Training objectives**

- Knowledge of the angiographic anatomy of the internal iliac artery
- Identification of the prostatic artery
- Proper usage of imaging equipment in a long and demanding procedure
- Working according to ALARA in terms of radiation exposure
- Choice of appropriate microcatheter and microwire depending on anatomical considerations
- Catheterization of the branches of the internal iliac artery
- Usage and interpretation of cone beam computed tomography (CBCT) to exclude non-target embolization
- Management of collaterals to avoid non-target embolization
- Choice of type, size and mixture of embolic material with saline and contrast
- Safe and efficient embolization technique in terms of injection technique and signs of successful embolization
- Performing different embolization techniques (standard, PErFecTED)

---

**VIST®-Lab**

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

**VIST® G5**

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, 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 headquarters in Gothenburg, Sweden, and more than 600 vascular simulator installations all over the world.