LEFT ATRIAL APPENDAGE OCCLUSION

Procedural Training Module

mentice

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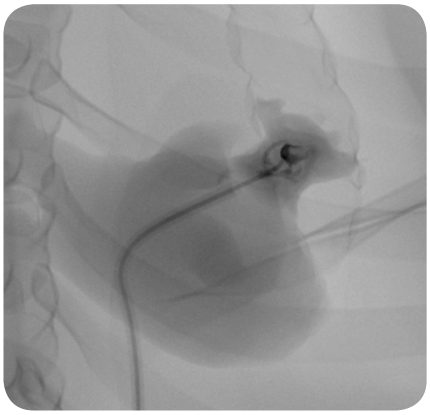
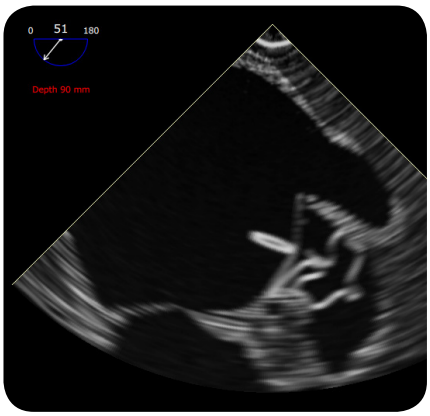
Mentice Left Atrial Appendage Occlusion is designed for electrophysiologists, interventional cardiologists and cardiac surgeons who wish to improve their own or their team's understanding of the fundamental steps and critical points for successful LAA occlusion. The module allows for safe and effective training of either individuals or multi-disciplinary teams.

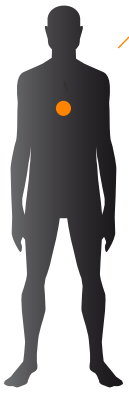
This module assumes familiarity with echocardiography, expert knowledge of the left atrial (LA) anatomy, and extensive experience with transseptal puncture techniques, endovascular intervention and cardiac catheterization techniques. TEE is available during the whole procedure – from examination of the LAA before intervention, to safe crossing of the septum, assessment of the dimensions of the LAA and finally for secure deployment of the cardiac plug and assessment of device configuration after deployment. Training on variations of anatomies and adverse events is carried out in a safe simulated environment, which prepares the operator for real procedures in the operating room. Studies have indicated that complication rates are reduced with increased operator experience.1





An ideal platform for:

- Discussion of patient selection and pre-op planning
- Understanding the fundamentals of echocardiography
- Training of LAA occlusion in a stepwise approach
- Practicing careful and controlled device manipulation in the LA
- Preparing for and avoiding complications in real patients



Left Atrial Appendage Occlusion

Designed for understanding and learning the critical steps involved in the novel and complex high-risk procedure of left atrial appendage (LAA) occlusion.

1) Left Atrial Appendage Occlusion – Closure or Just the Beginning?
William H. Maisel, M.D., M.P.H.; N Engl J Med 2009; 360:2601-260

Functionality and Features

- Includes a set of LAA anatomies
- Echocardiography (TEE) is available for all steps in the procedure
- Assessment of LAA dimensions using both angiography and echocardiography for correct device sizing
- Adverse events include air embolism, cardiac tamponade, aortic puncture and perforation of the LA

Procedural training objectives

- Patient selection and contraindications
- Choosing correct device size based on anatomy and correct implantation of the device in the LAA (understanding the signs of successful deployment)
- Correlating echocardiography and angiography
- Echocardiography confirmation of correct placement
- Carefulness in navigating the left atrium and appendage
- Prevention and management of cardiac tamponade
- Avoiding deep LAA placement and cul-de-sac formation

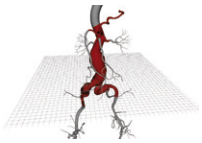
VIST® -Lab

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

VIST® -C

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.


Neuro Intervention


Carotid Interven-tion


Coronary Angiography


Endovascular Aortic Repair


Peripheral Angiography


Below-the-knee Intervention


Coronary PRO


Transseptal Puncture


Cardiac Rhythm Management


Uterine Artery Embolization


Iliac/SFA Intervention


Renal Intervention


Renal Denervation


Left Atrial Appendage Occlusion


Acute Stroke Intervention


Thoracic Endovascular Aortic Repair


Aortic Valve Implantation


Vascular Trauma Management

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.

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