

Principles of Ablation Therapy *for EP Fellows*

This program is designed to provide EP fellows a foundation for understanding the science behind ablation therapy for cardiac arrhythmias and to highlight best clinical practices for achieving appropriate outcomes. Didactic content provides an overview of the science behind lesion formation with radiofrequency and other ablative methods; an in-depth review of the cardiac anatomy as it relates to catheter position, fluoroscopic imaging and intracardiac signal analysis during ablation procedures; and an introduction to intracardiac echo (ICE) imaging and the transeptal puncture approach for accessing left-sided heart chambers. Intensive hands-on workshops offer an opportunity to position ablation catheters in an animal model in a full-functional EP suite; to dissect an animal heart and identify key anatomical landmarks; to create radiofrequency lesions in animal tissue using a variety of FDA-approved ablation catheters; and to observe ICE-guided transeptal punctures in an animal model. Invited physician faculty with extensive ablation therapy experience guide the discussions and mentor the participants during the workshops.

Program Objectives

- Describe the biophysical theories of lesion formation during ablation therapy
- Recognize the cardiac anatomical structures that correlate to targets for ablation catheter placement and therapy delivery
- Appreciate the optimal fluoro views to identify target landmarks for intracardiac recording and lesion formation
- Understand the role of ICE technology in the application of transeptal puncture for placement of catheters in left-sided chambers

Sample agenda

- Biophysics of Ablation
- Cardiac Anatomy: Fluoro and EGM Guidance
- Introduction to ICE and Transeptal Puncture
- Hands-on Workshops and Demonstrations in EP Labs and Wet Lab

Program Duration

One day

Intended audience

Physicians currently enrolled in an accredited electrophysiology fellowship program

Upcoming program dates

April 22

August 26

November 12

Registration

Contact your local Boston Scientific Fellows Manager or Boston Scientific CRM or EP representative



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