

Requirements for a Successful LAA Closure Program

Matthew J. Price MD
Scripps Clinic, La Jolla, CA

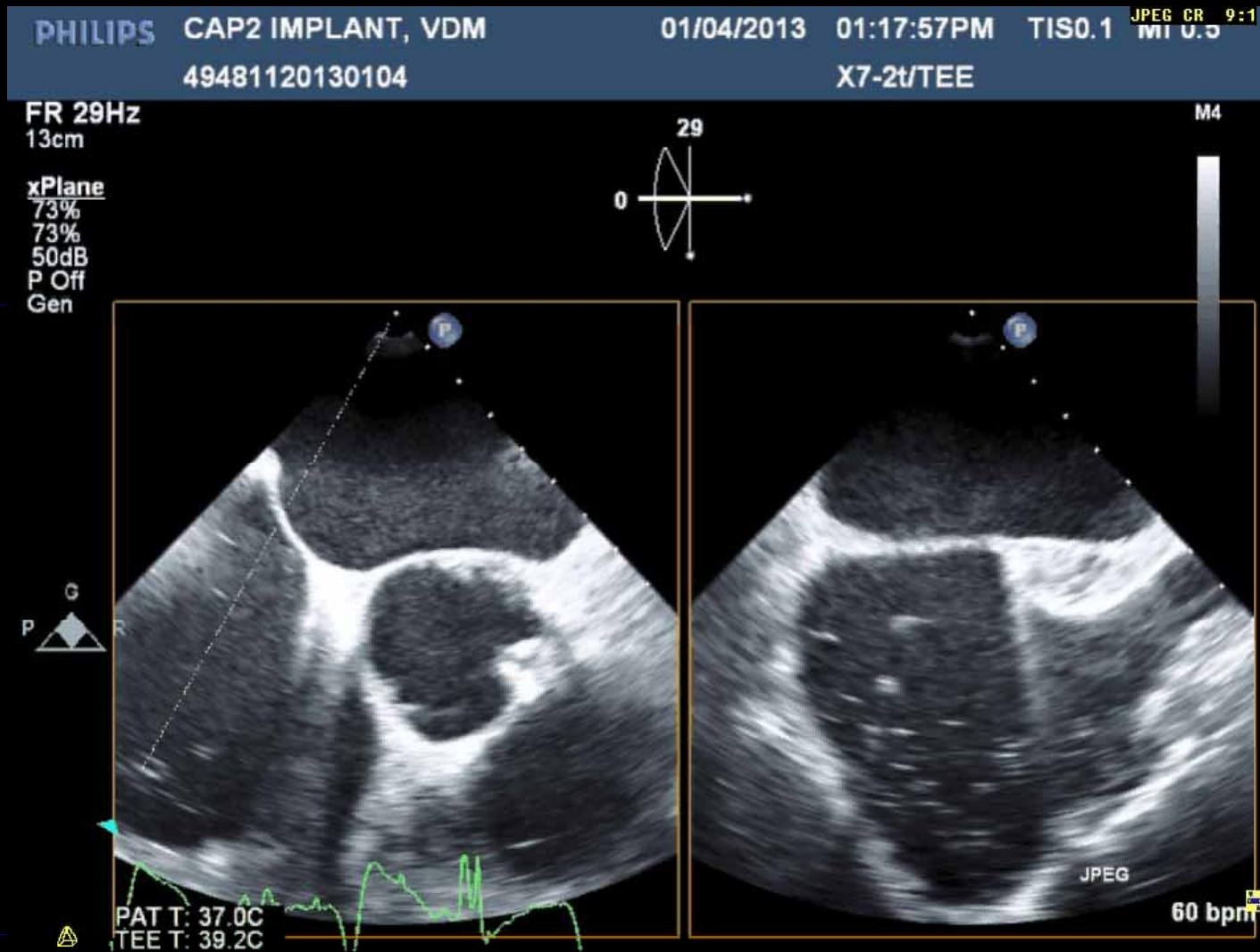
Four Keys to a Successful LAAC Program

- **Acquire the technical skills to perform the procedure successfully**
- **Assemble an team that is integrated into the process**
- **Develop a network for patient referrals**
- **Choose initial cases wisely**

Acquiring the LAAC Skill Set: What is Needed?

- **Trans-septal puncture**
- **Device implantation**
- **Handling complications**

Transeptal Puncture: Must Understand The Anatomy of the Interatrial Septum And How it Appears on TEE



Acquiring the LAAC Skill Set for Trans-septal Puncture

- If do not know how to already, you must:
 - Learn to understand the inter-atrial septum on TEE
 - Find simulators
 - Attend training programs
 - Find a mentor:
 - More senior interventionalist
 - Partner with EP

Acquiring the LAAC Skill Set: Device Implant

- For WATCHMAN/ACP, similar skill set as closure devices
- LAA anatomy
 - Anterior/Posterior on echo and fluoroscopy
 - Rotation of delivery sheath
- Complications!

Pericardial Effusions: Uncommon But Inevitable With Increasing Case Volume



- Auto-transfusion techniques can be helpful...

Key Requirement: Assemble the Imaging Team

P
C
FR 12
2D
75%
C 50
P Off
Res

MI 0.5
M4
ICE



PHILIPS CAP2 IMPLANT, VDM 01/04/2013 02:01:53PM TISO.1 MI 0.5
CAHMJL 49481120130104 SCRIPPS CLINIC #3 X7-2I/TEE

PHILIPS CAP2 IMPLANT, VDM 01/04/2013 02:05:47PM TISO.7 MI 0.4
49481120130104 X7-2I/TEE



PAT T: 37.0C
TEE T: 37.9C
61bpm

PAT T: 37.0C
TEE T: 38.8C
61bpm

Assemble the Imaging Team

- **LAAC requires a substantial commitment from the imager**
 - At minimum, need TEE at baseline (r/o LAA clot, sizing), during transseptal, and after device implant
 - Imaging colleague could be busy seeing patients or doing other more lucrative things – challenging scenario for LAAC program in private practice
 - Need “buy-in” and/or other approaches: cardiac anesthesiologist, super-technician, fellows
 - Become independent from the imager (although you can’t hold the TEE probe yourself!)

Get Hospital Buy-In

- Reimbursement differs across the world
- Hospital administration must understand the “halo” effect of LAAC
 - Part of a larger atrial fibrillation center
 - Outside referrals brings more ablations, imaging tests, other ancillary studies

Build A Referral Network From the People Who Prescribe Anticoagulants and the Ones Who See Its Complications

- Non-invasive cardiologists (especially your imagers!)
- Non-invasive electrophysiologists
- Neurologists (particularly stroke neurologists and/or the Stroke Team)
- Coumadin clinic (bleeders, those with poor TTR)
- Internal Medicine

Build A Referral Network

- Partner with interventional EP?

Start With The Right Patients

- You won't make any patient feel better with LAA closure!
 - Patient and their doctor will know when there is a complication but not when a stroke is prevented
- Must be at high risk for ischemic events
- In U.S, must be a “candidate for long-term anticoagulation.”
 - Does not need to be an *optimal* candidate
 - Reasonably high risk enough for the patient to notice or comprehend the complications of anticoagulation
- Educate the patient so he or she understands the trade-offs between the upfront procedure risk and the long term risk of stroke/bleeding

The Intangibles...

- Become an expert in stroke prevention in Afib (and anticoagulant pharmacology), not just someone who wants to implant the device.
 - Good for providing informed consent
 - Brings potential patients into your sphere of influence
 - Improves patient management

Summary

- Get experience in transseptal puncture
- Can't do the procedure alone (unfortunately!):
need partnership with echocardiographer, which
can be challenging in private practice
- Choose (initial) patients wisely

Lets break the anticoagulant addiction!

“I gotta have my blood thinner”

