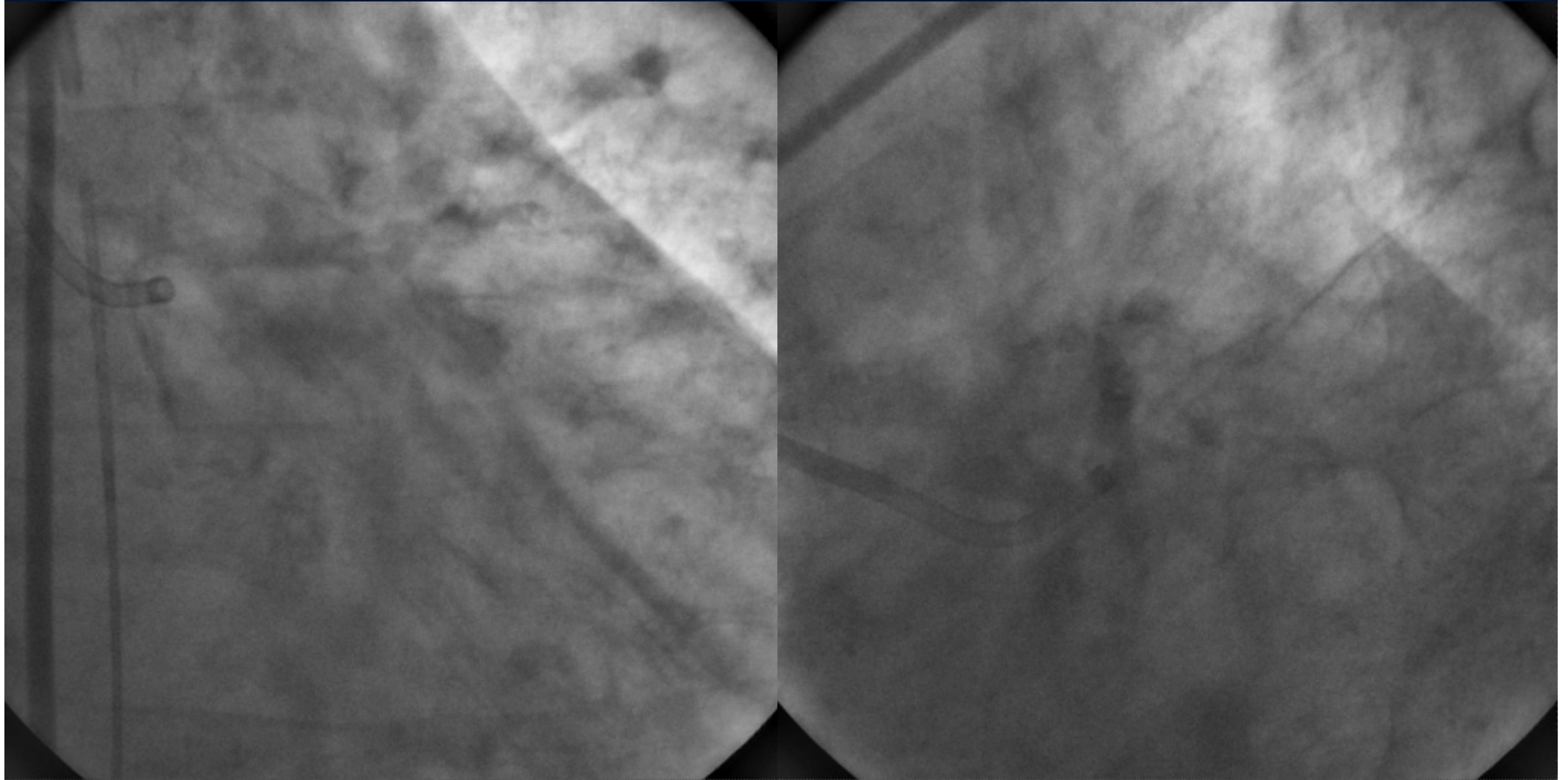


NOVICE's Trial of Complex LM PCI

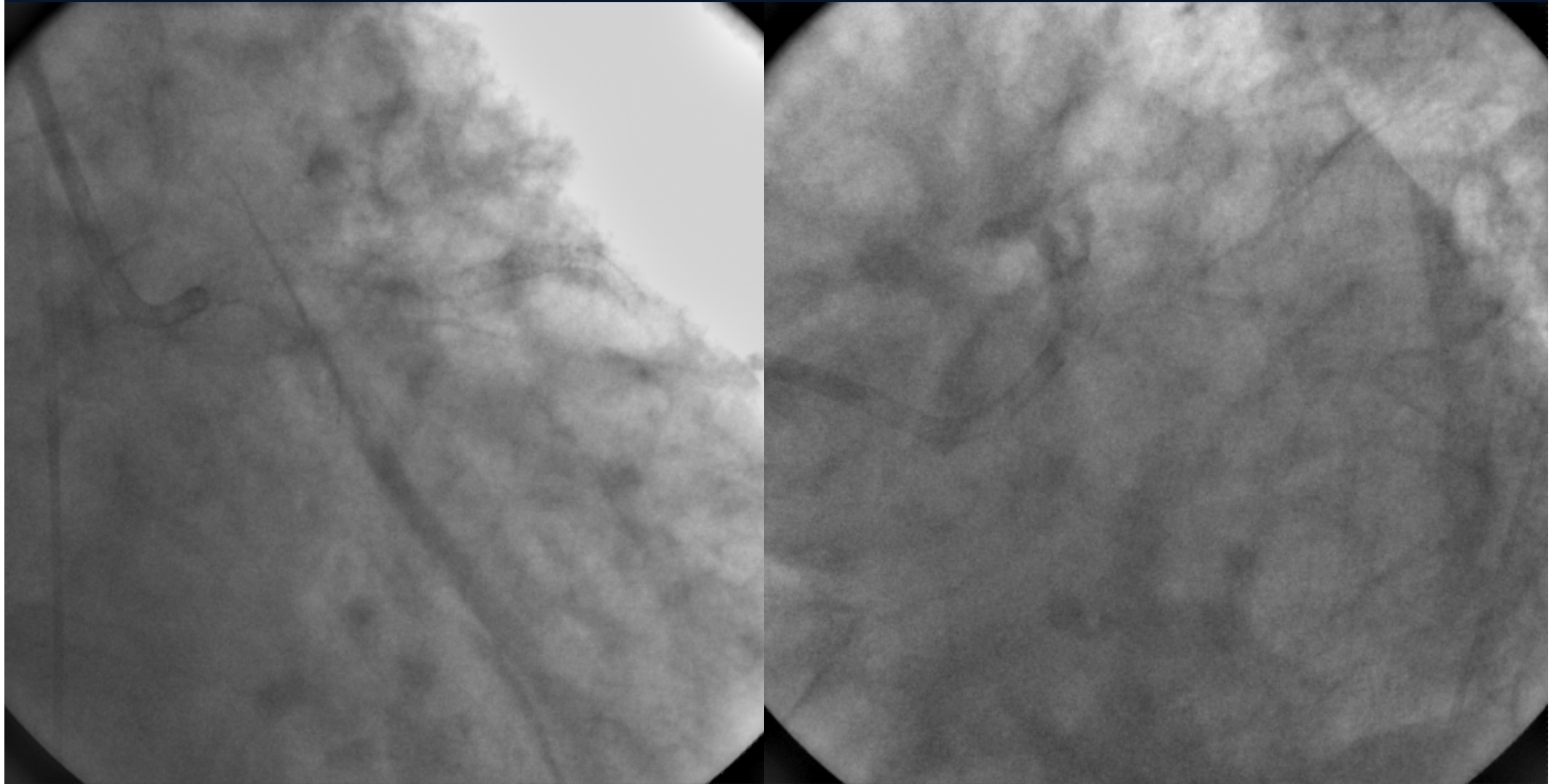
Jung-Min Ahn, MD.

University of Ulsan College of Medicine,
Asan Medical Center, Seoul, Korea

Case Selection



Case Selection

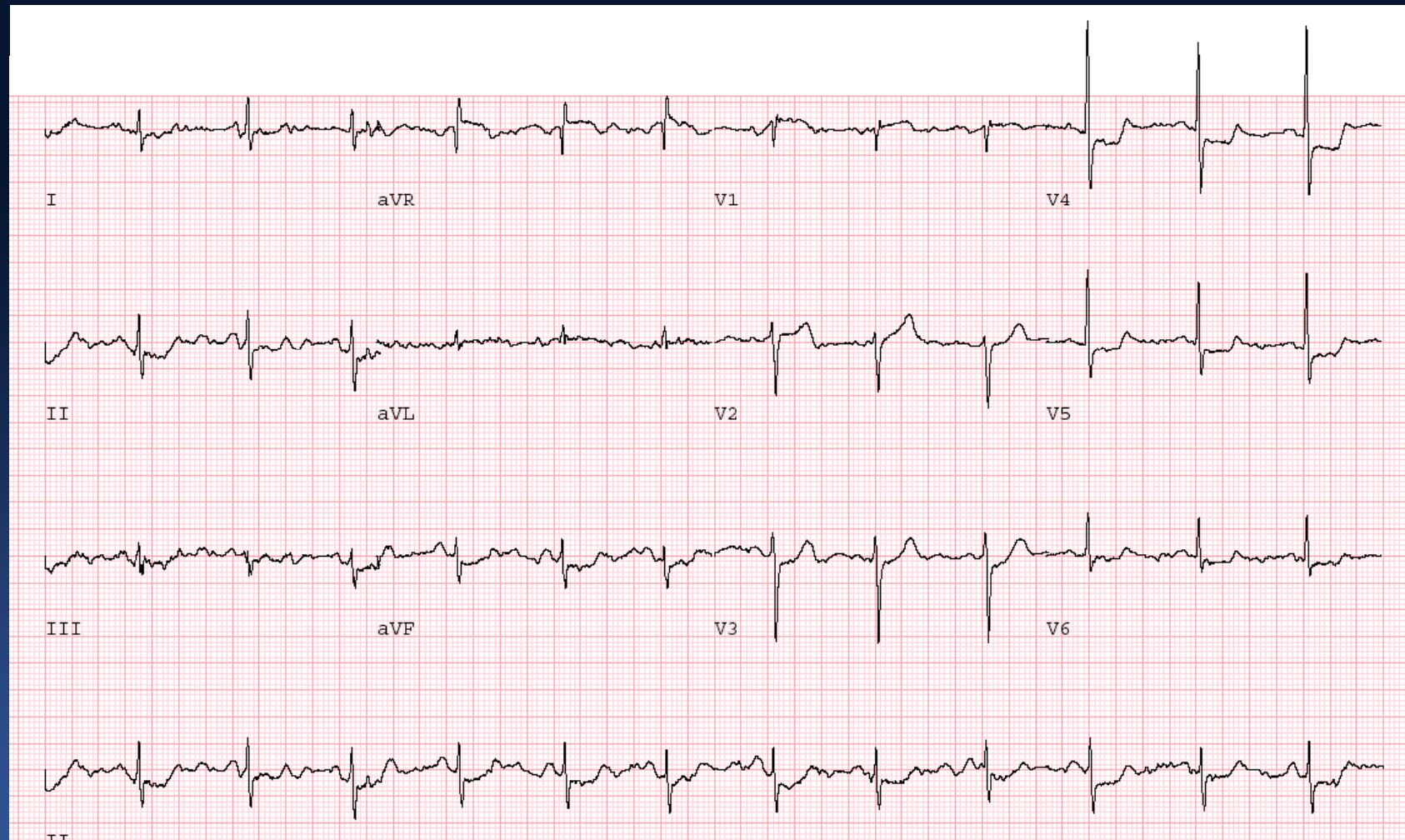


CASE

67 Years-old male

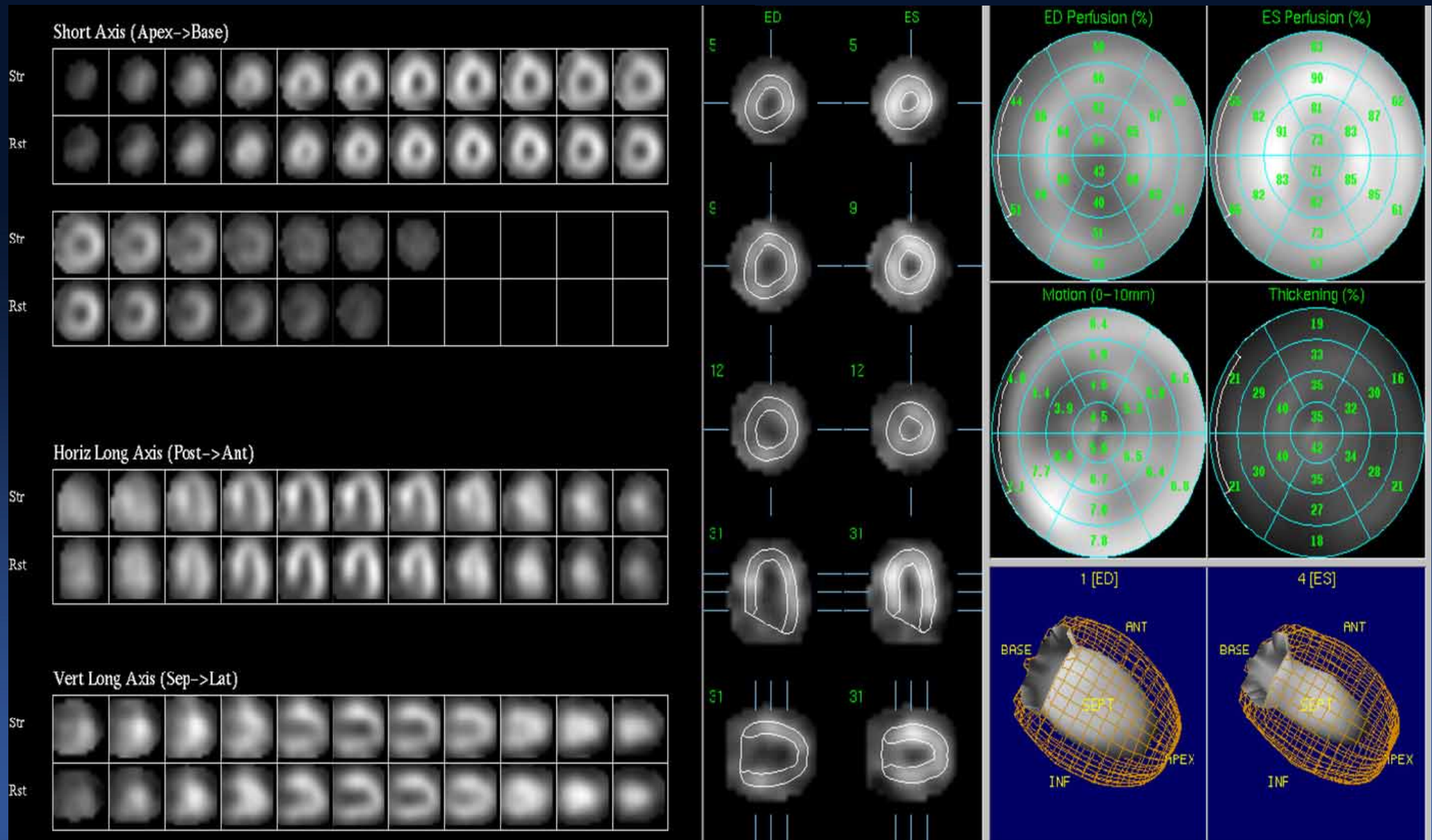
- CC :
Accelerated chest pain
2 months ago
- Risk factors: Hyperlipidemia

Treadmill Test



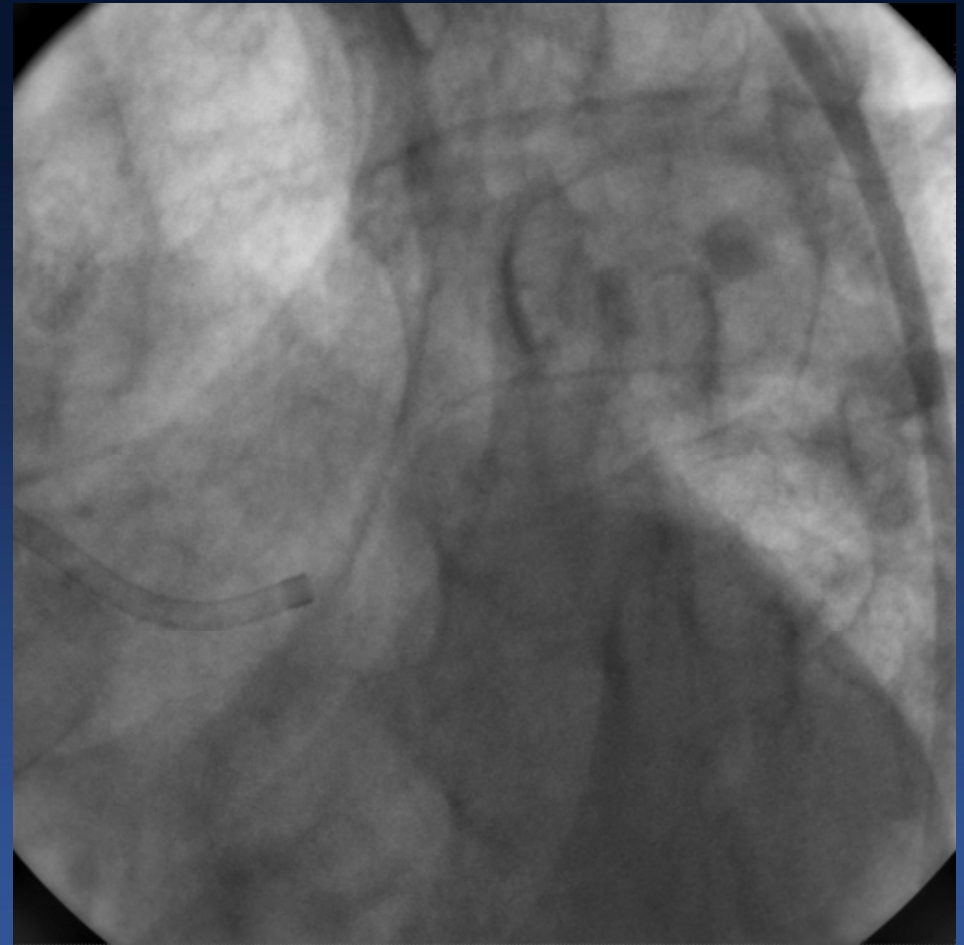
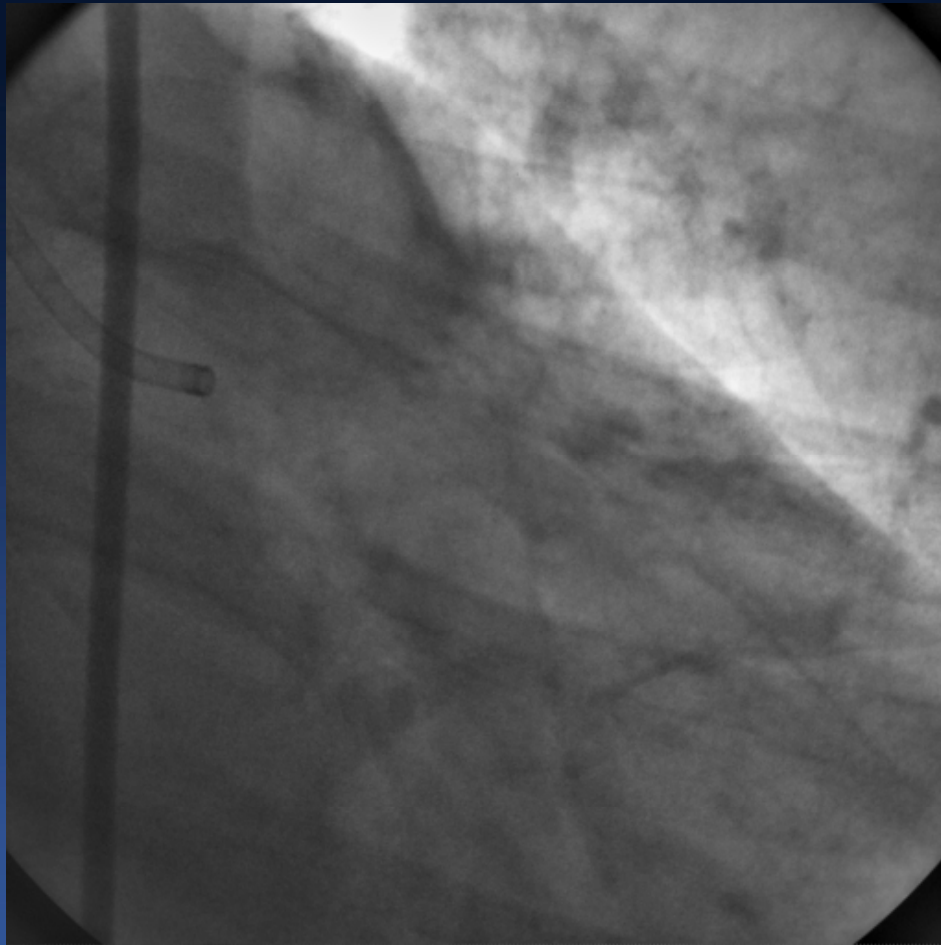
Stage 3

Thallium SPECT



Normal Perfusion

LM shaft stenosis with minimal disease of LCX



LM shaft stenosis with minimal disease of LCX

PCI for Multivessel Complex and/or LMCA stenosis in SIHD

Ad hoc PCI for complex multivessel or unprotected left main SIHD should be reserved for unusual circumstances in which surgical consultation has already occurred or is clearly not an appropriate consideration due to comorbidities or other factors, and the patient has been fully informed regarding benefits and above-normal risks.

A Consensus Statement from SCAI, CCI81:748-758

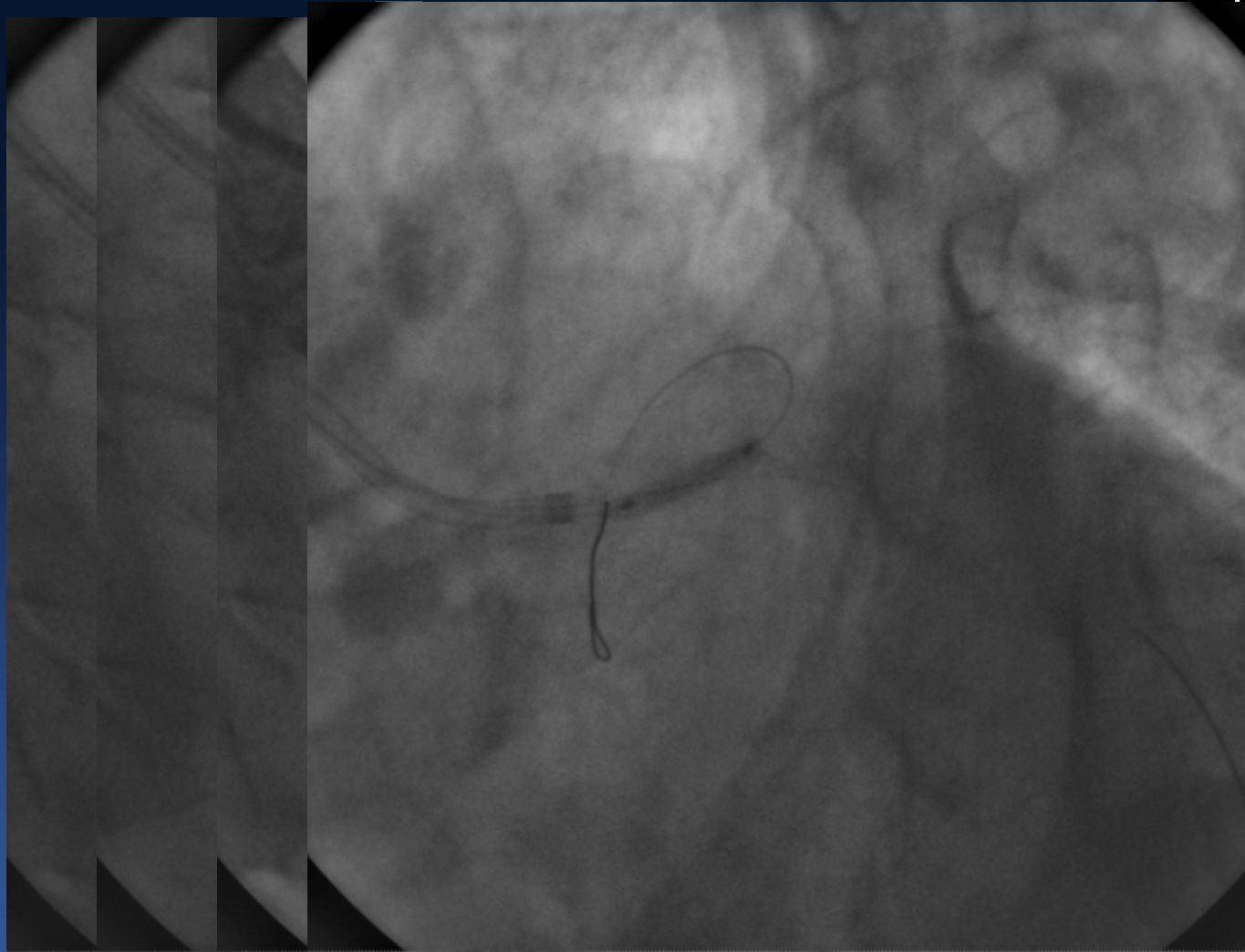


RCA is normal

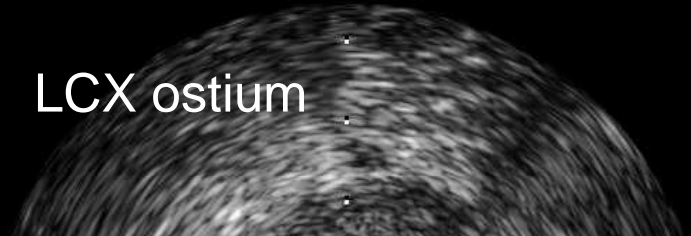
My Plan

- With my senior Doctors
- Femoral approach
- JL4 guiding catheter
- Insertion of 2 wire
- Balloon first to maintain antegrade flow
- IVUS evaluation:
 - LAD distal landing zone and LCXos
- Single stent cross over
- Xience Prime : EXCEL trial
- Post stent IVUS surveillance
- Final stent optimization

Severe Chest Pain



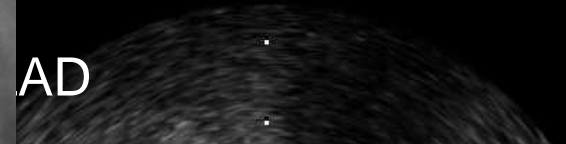
LCX ostium



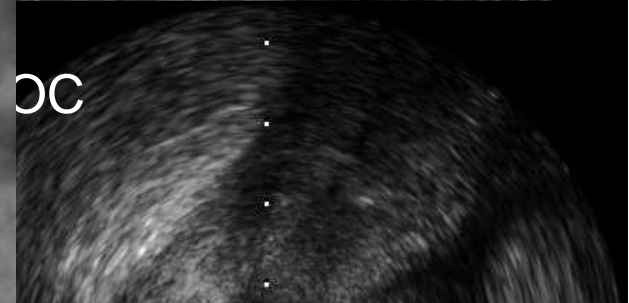
~LAD Reference Vessel



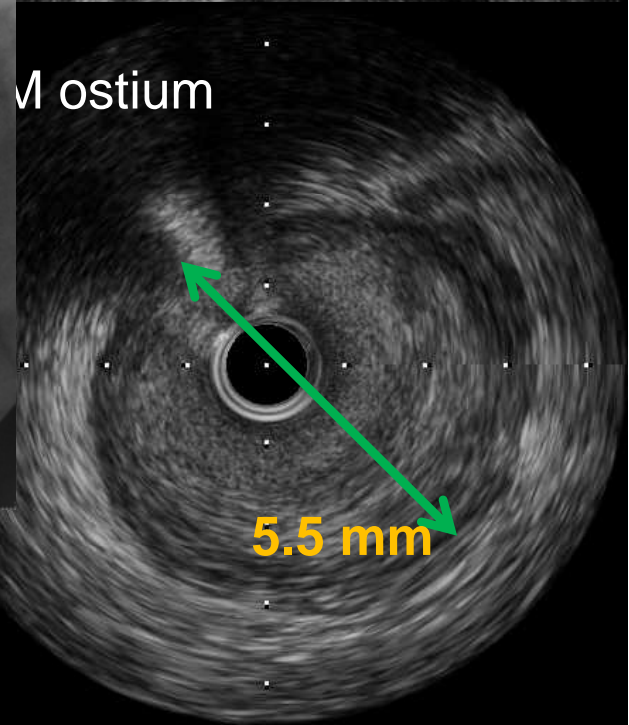
LAD



OC



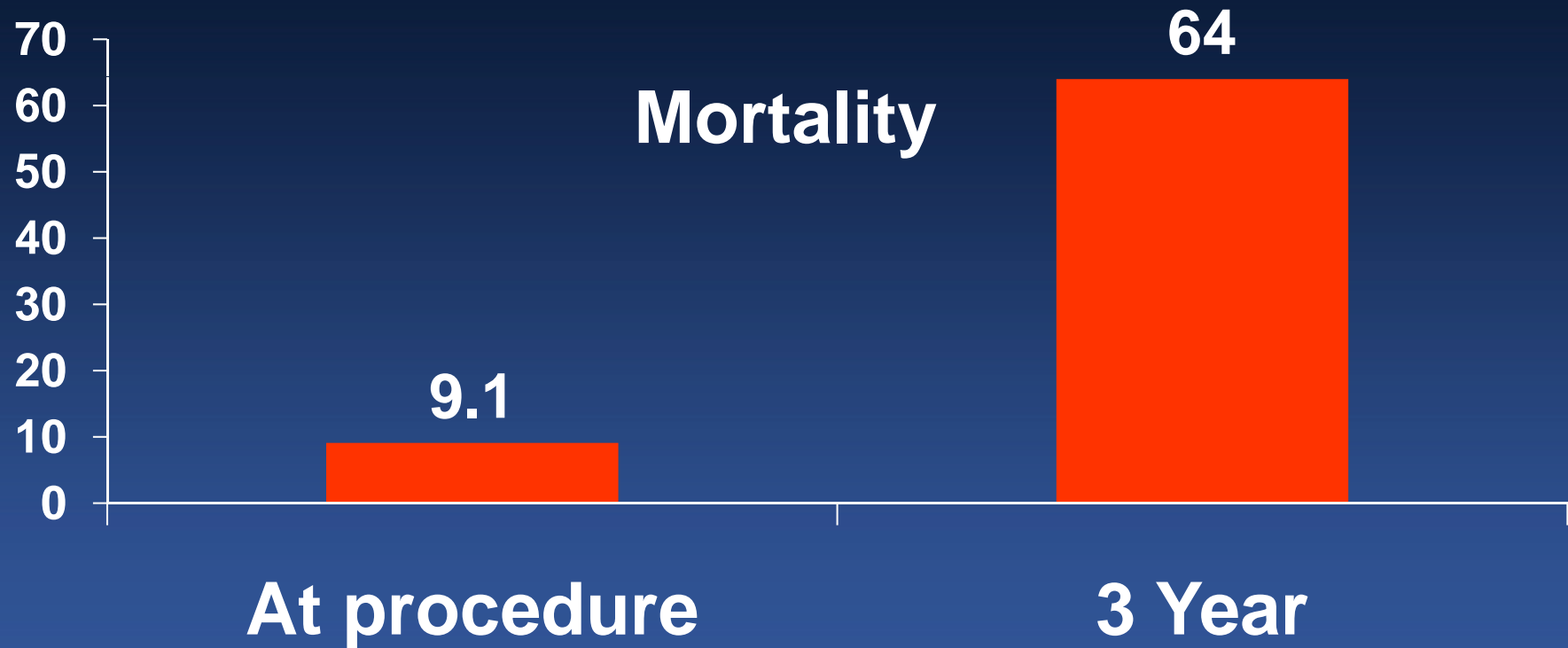
M ostium



5.5 mm

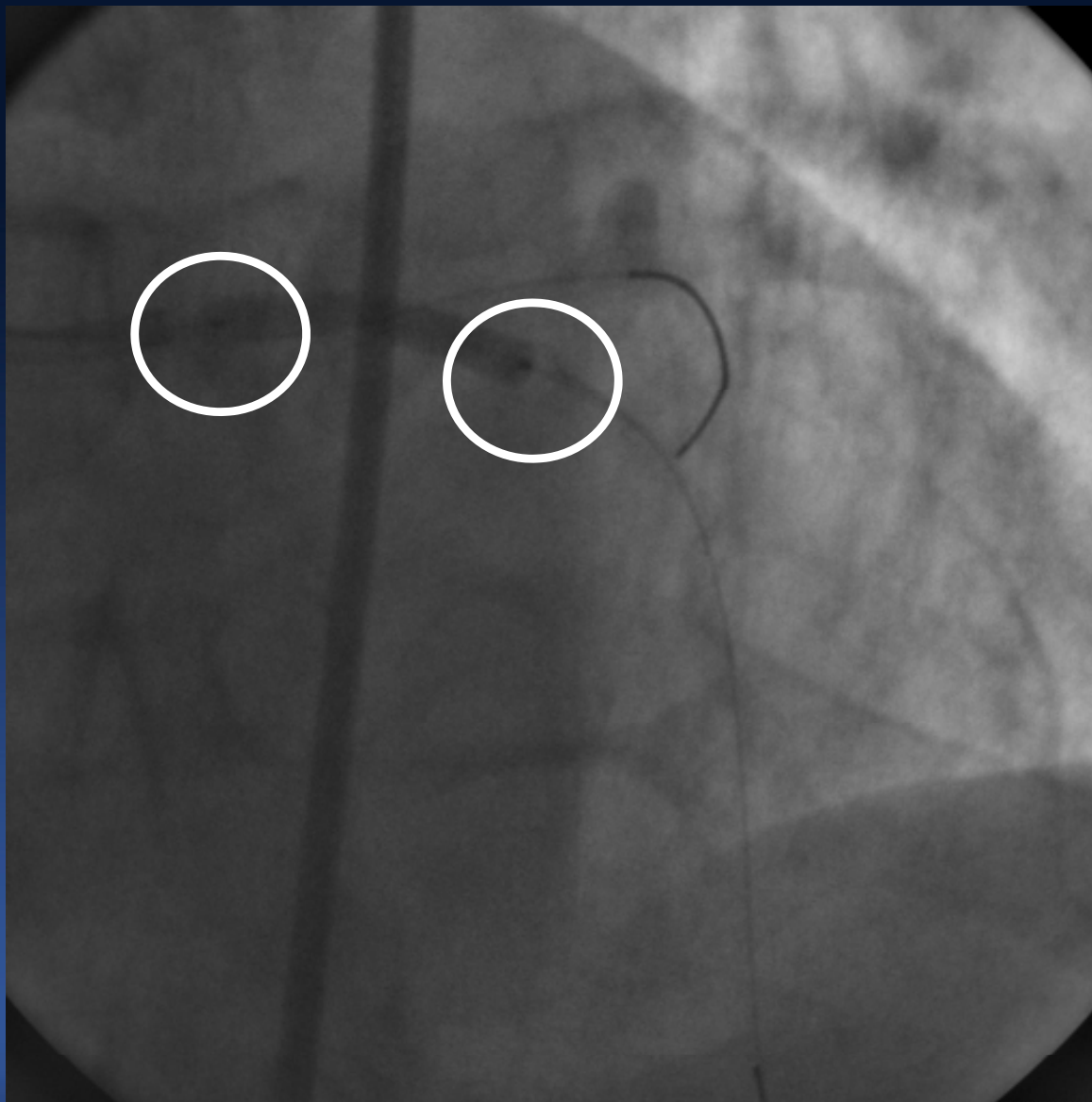
I realized why balloon PTCA failed in the treatment of LMCA stenosis

Balloon PTCA for LMCA stenosis



O'Keefe JH Jr, Hartzler GO et al. Am J Cardiol 1989;64(3):144-7

Xience Prime 3.5(23)

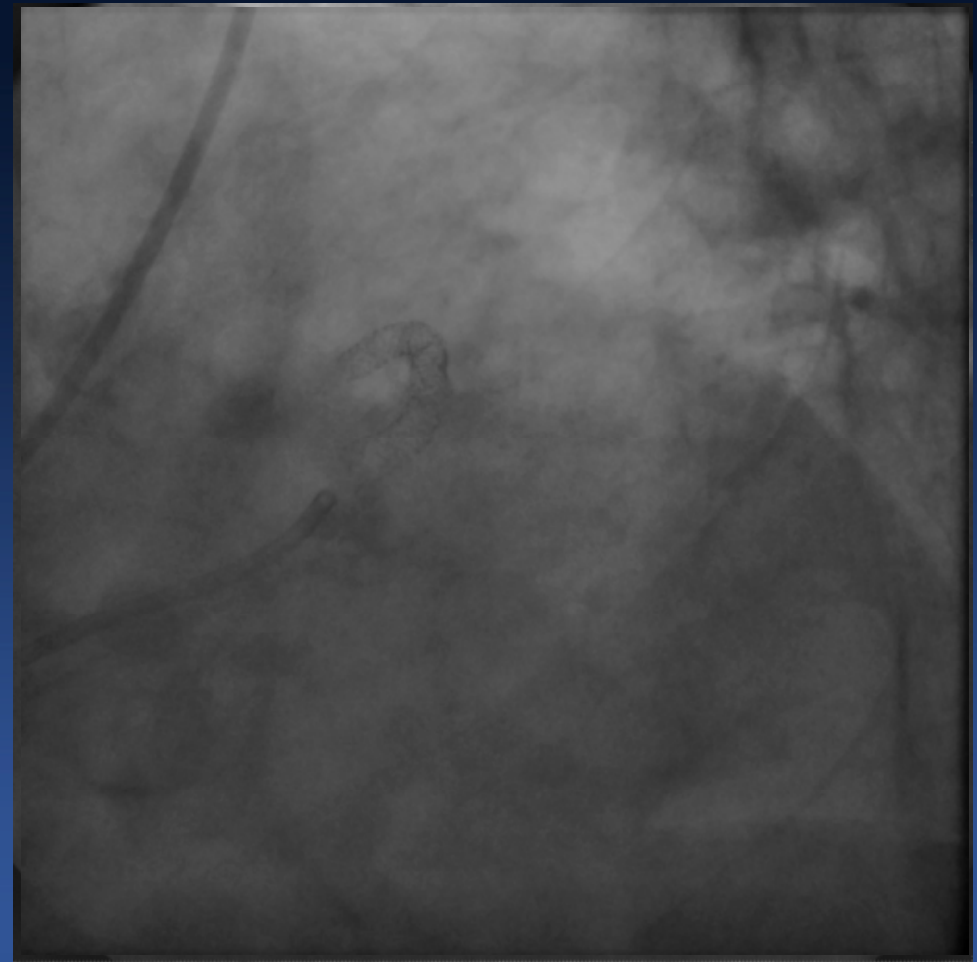


A little bit protrusion..

Two Much

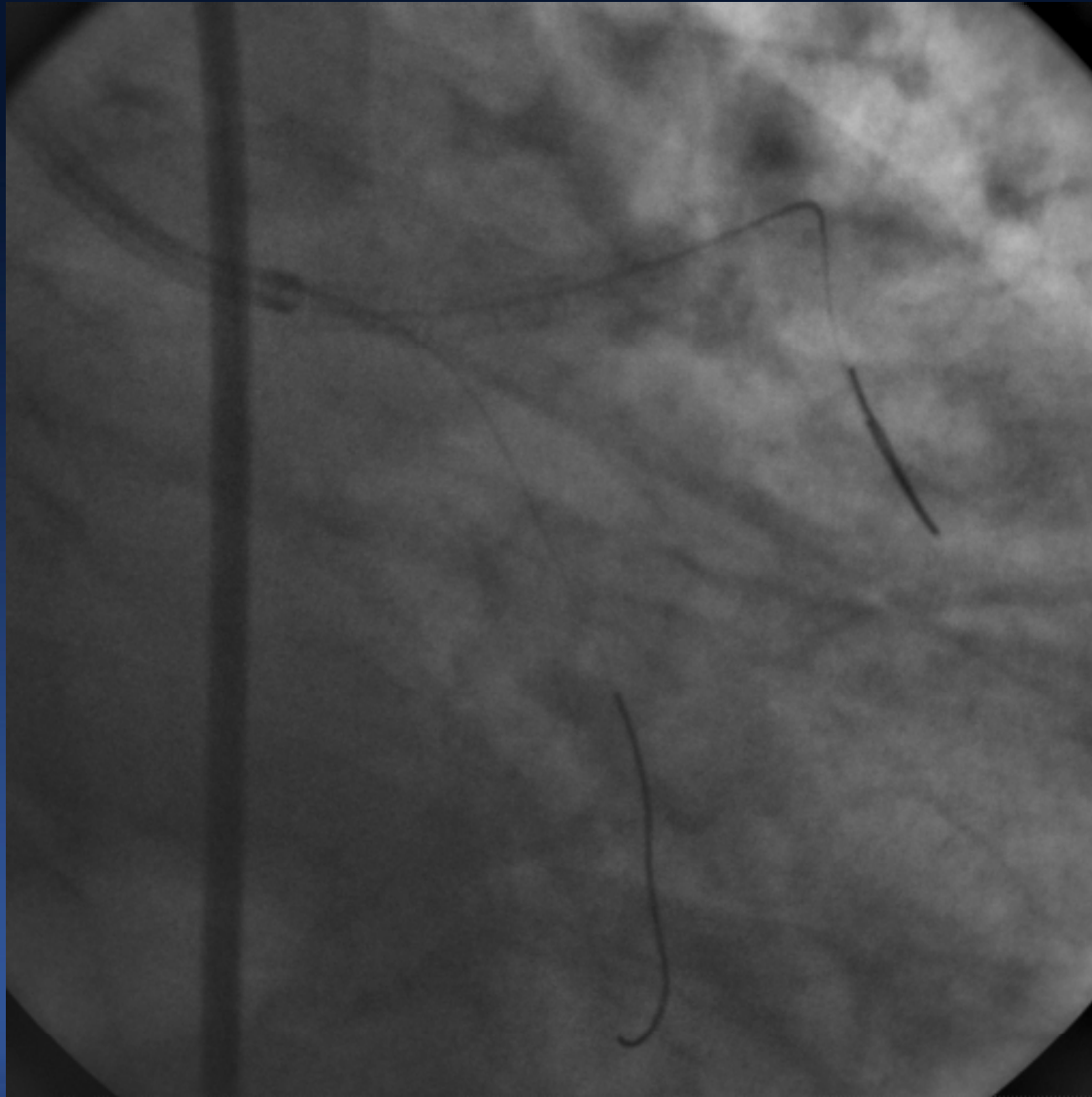


Missed a little

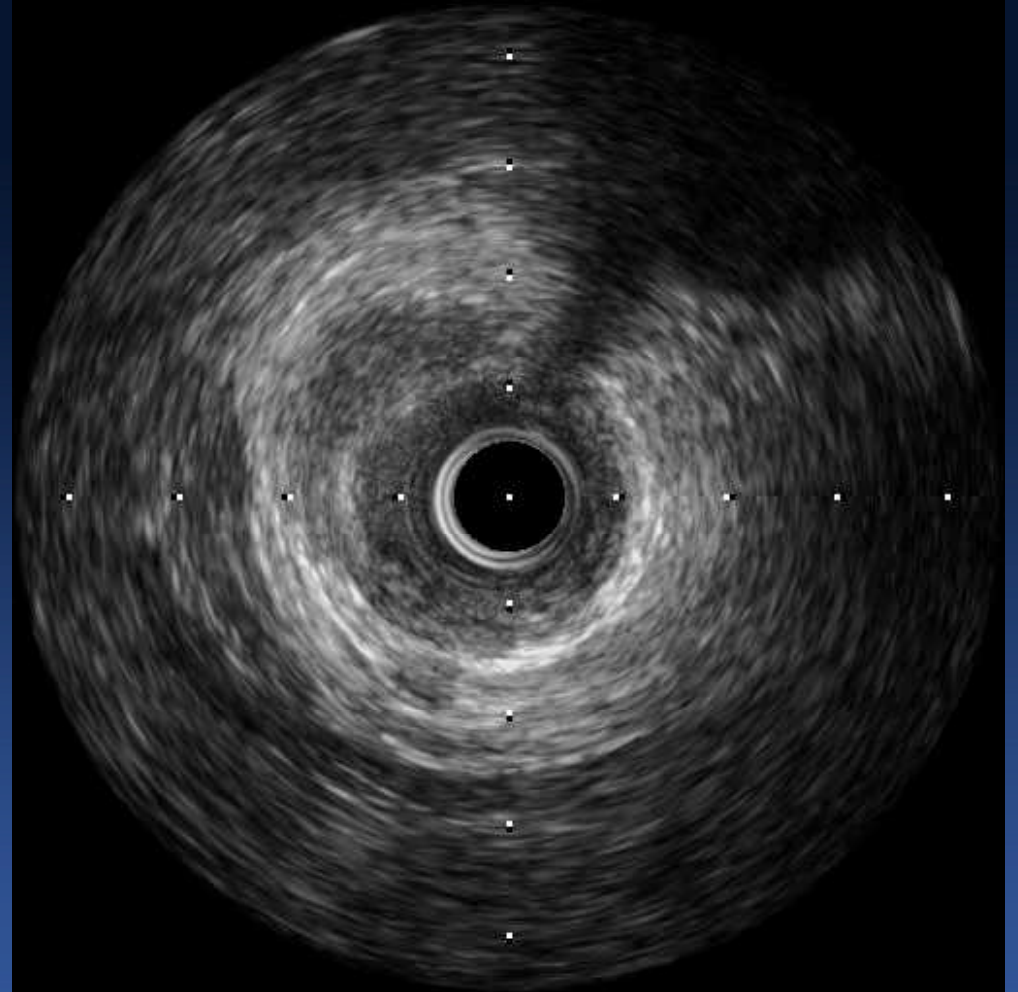
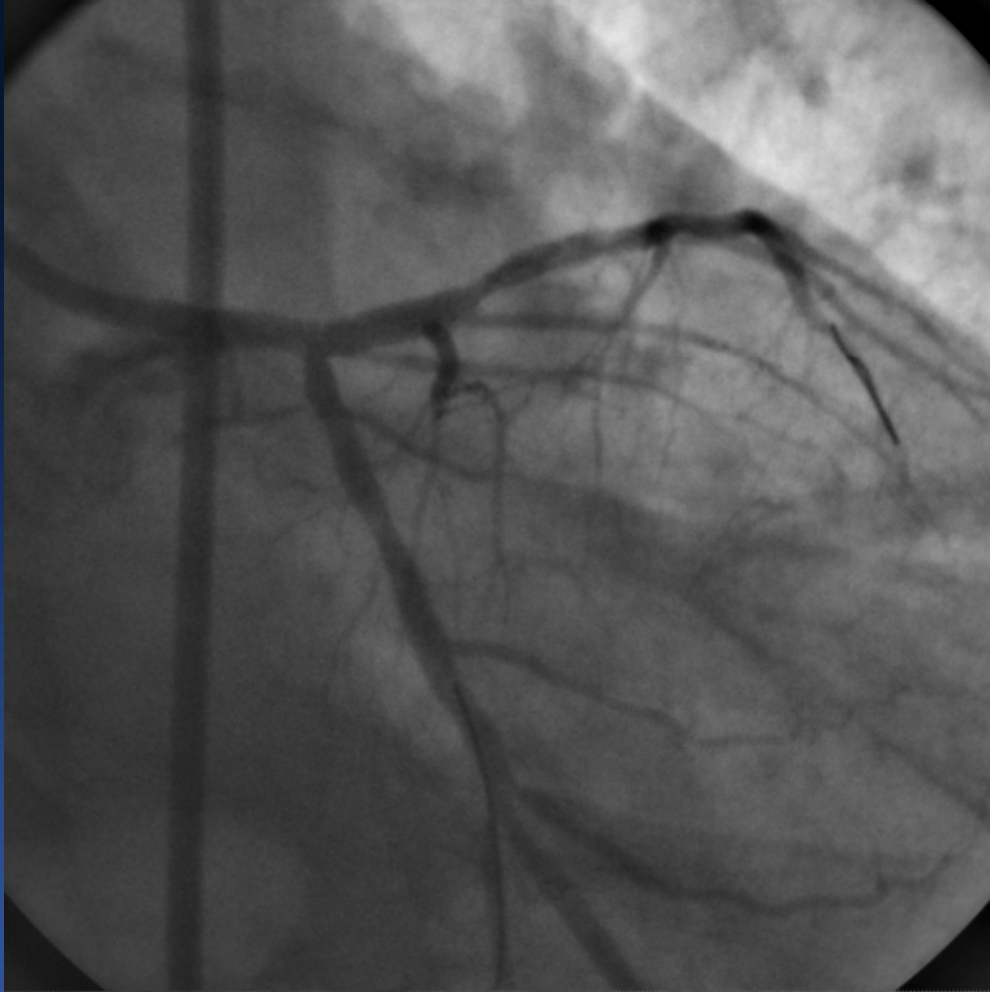


Courtesy of Dr. Kim

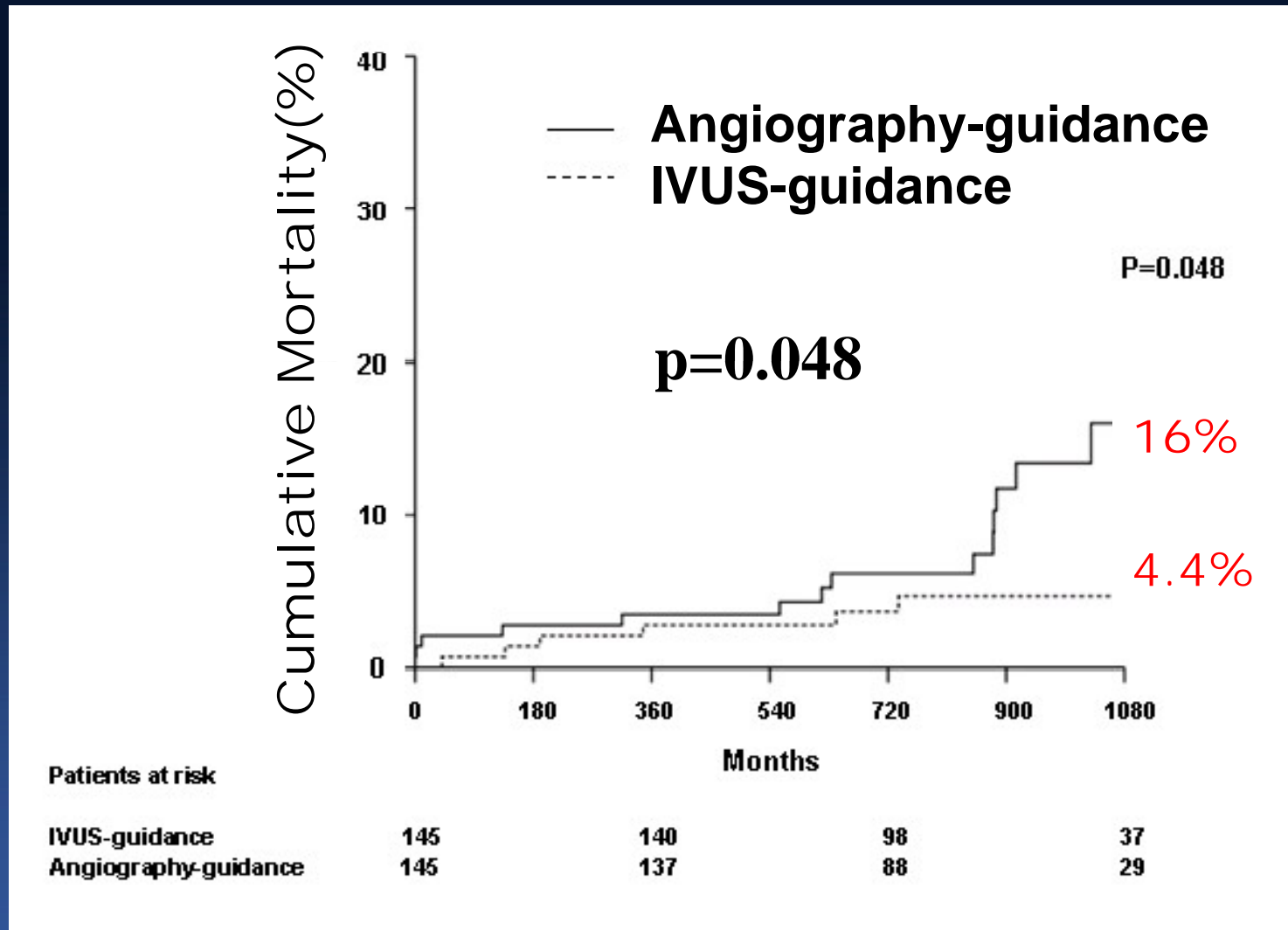
Severe Chest Pain was gone



Post Stenting

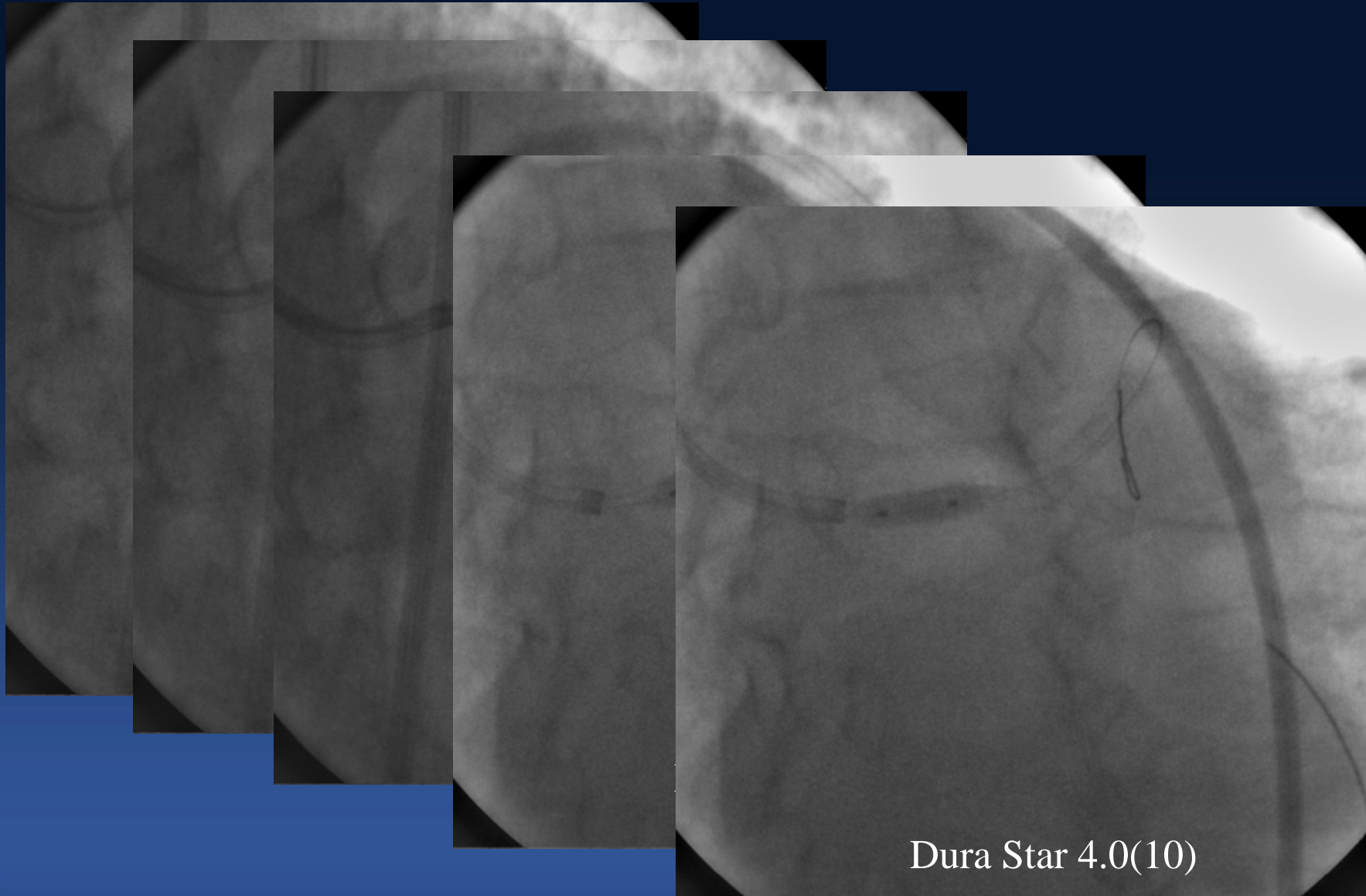


IVUS-Guidance Saves Lives in LM PCI

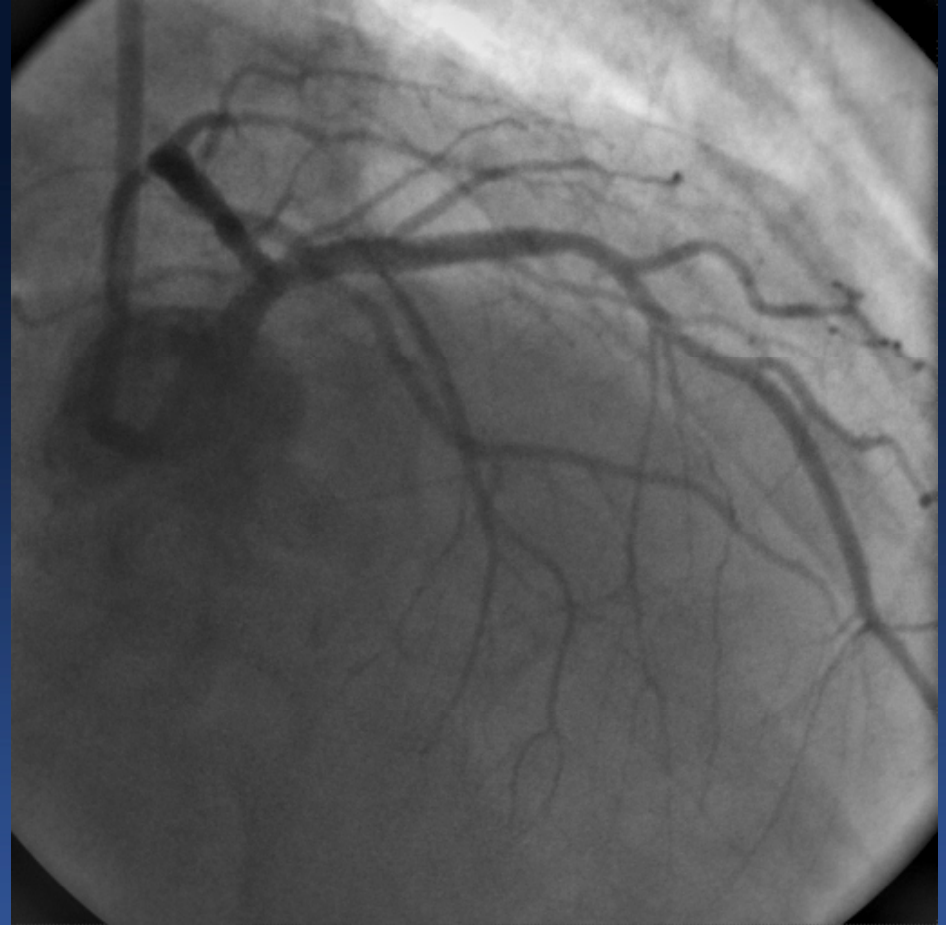


Park SJ et al Circ Cardiovasc Interv 2009;2:167-77

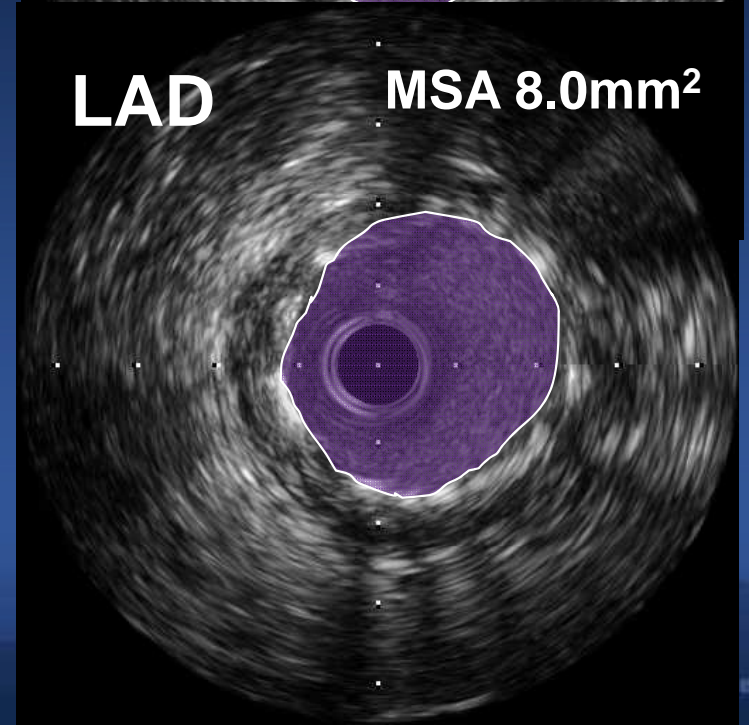
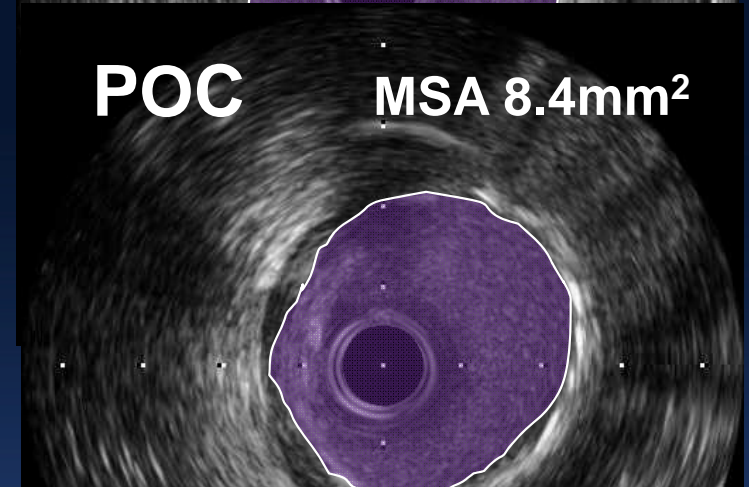
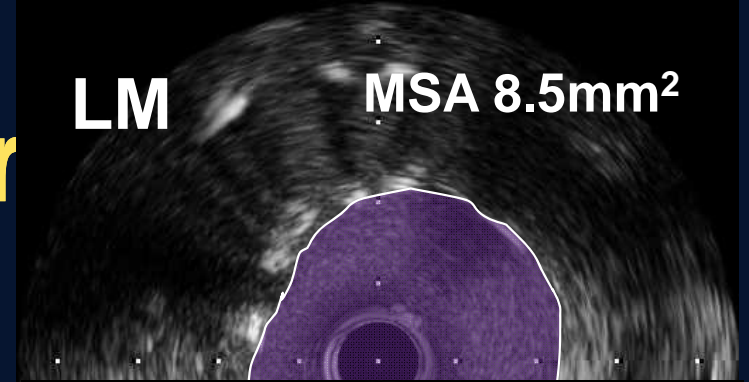
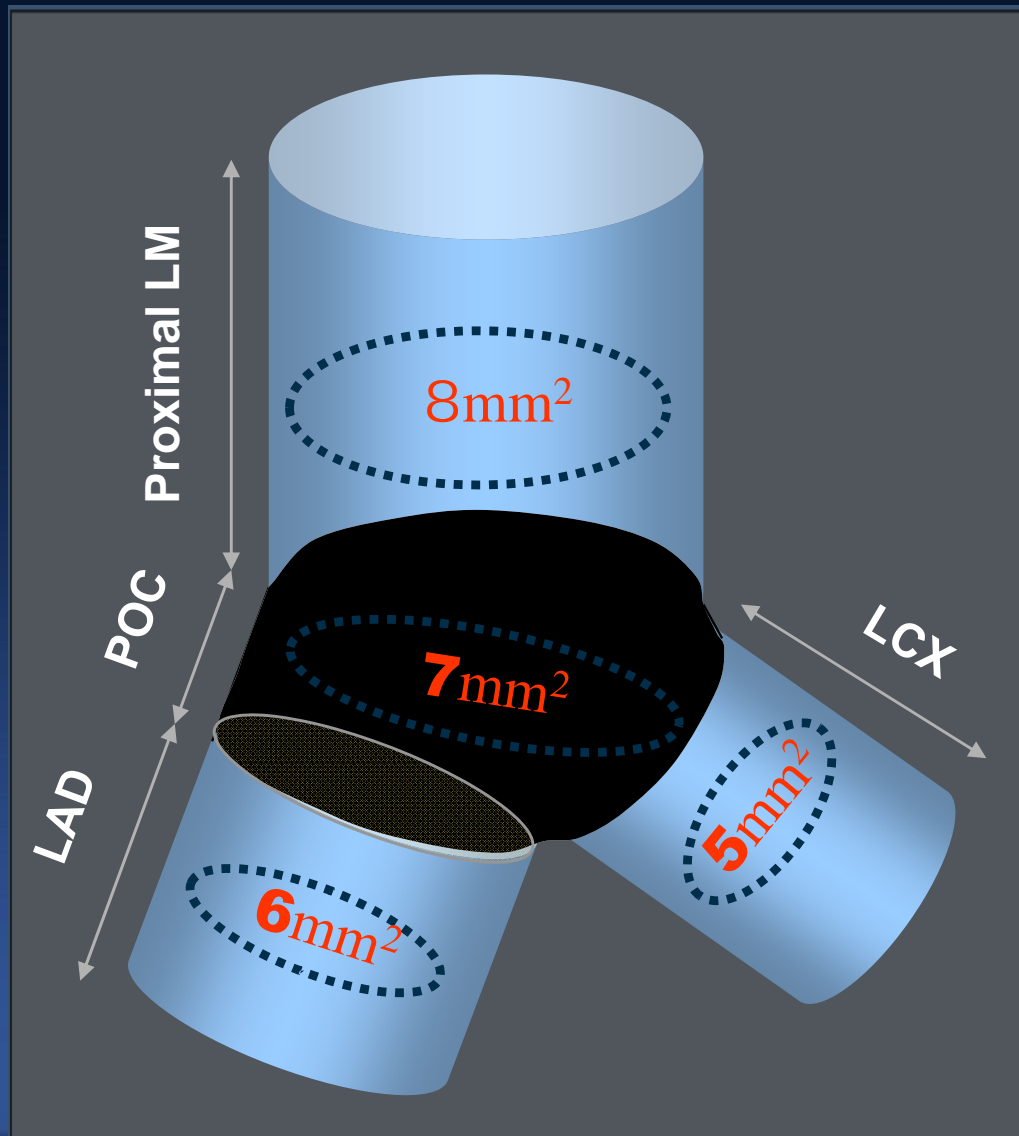
Xience Prime 3.0(12)



Final Angiography



IVUS Criteria



Park SJ et al. JACC Cardiovasc Interv 2011;4:1168-1174.

I have learned

- Should prepare the experienced Drs. inside cath-lab.
- Before procedure, make a plan, as simple as possible and go straight forward!
- Balloon angioplasty may not work in LMCA stenosis. Keep it open using stent implantation first.
- IVUS is very important, particularly to Novice; it make us noticed what coronary angiogram can not show and guarantees good prognosis.

Mind Control

Be stable, although patient is unstable.

