



LM stenosis & LCX-CTO : a case report

Ping-Han, Lo

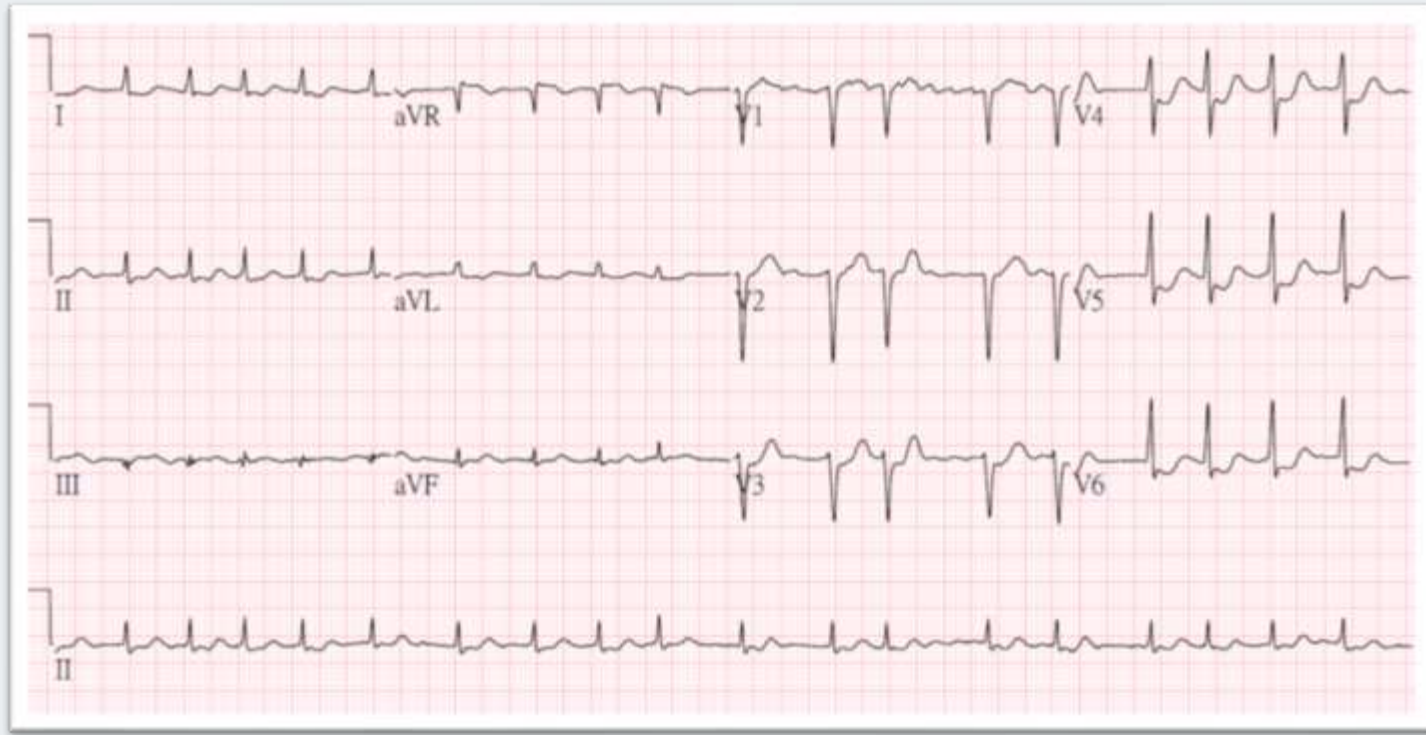
China Medical University Hospital

Taichung, Taiwan



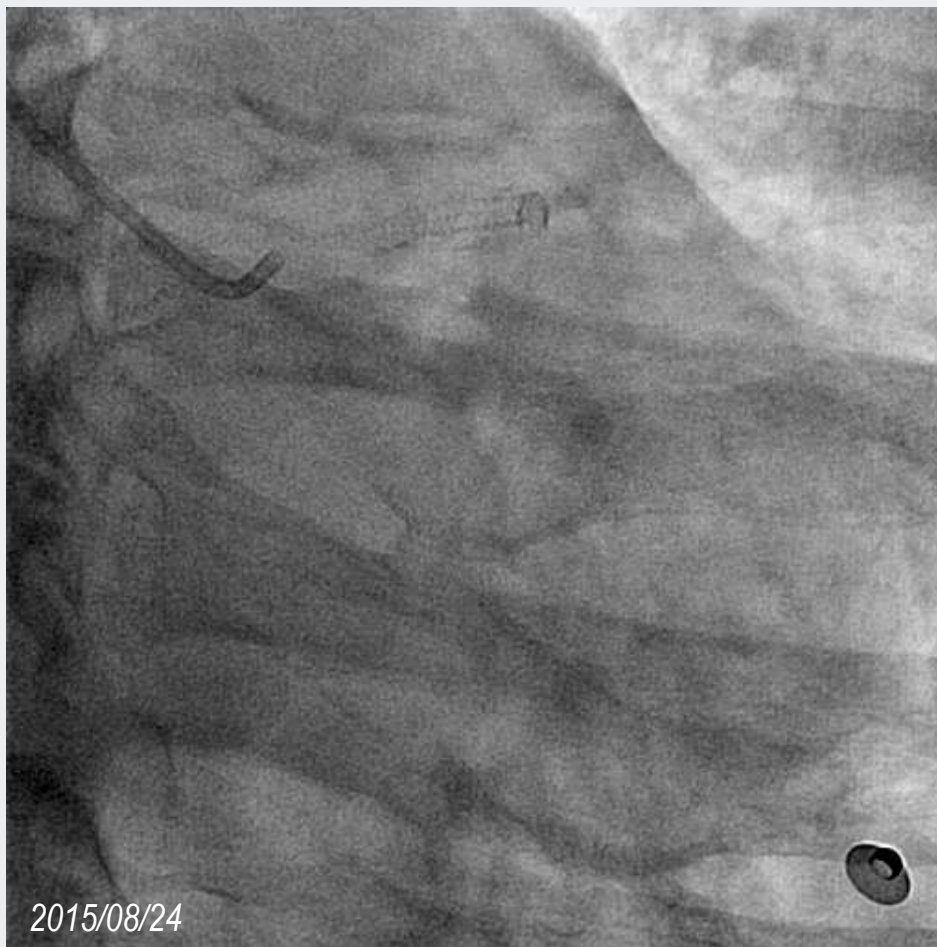
♥ A 73 y/o male, acute chest pain at 9 am.

- PH: HTN, DM, Hyperlipidemia, Atrial fibrillation, Old inferior wall MI
- ECG (40min after symptoms onset):



♥ Cath at 11:10 am

♥ Diffuse stenosis of LM



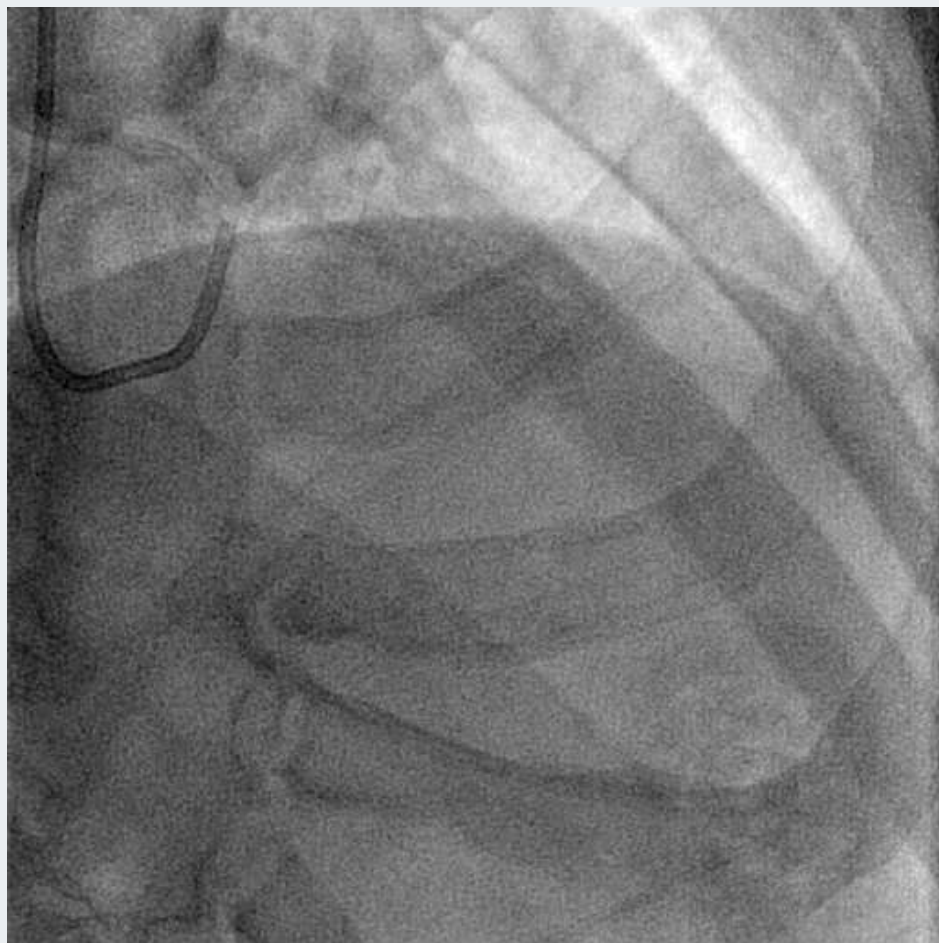
♥ Diffuse ISR at proximal-mid LAD



♥ CTO at distal CX

♥ *Bridging collateral at Dx-os*

♥ *CX ostium was OK*



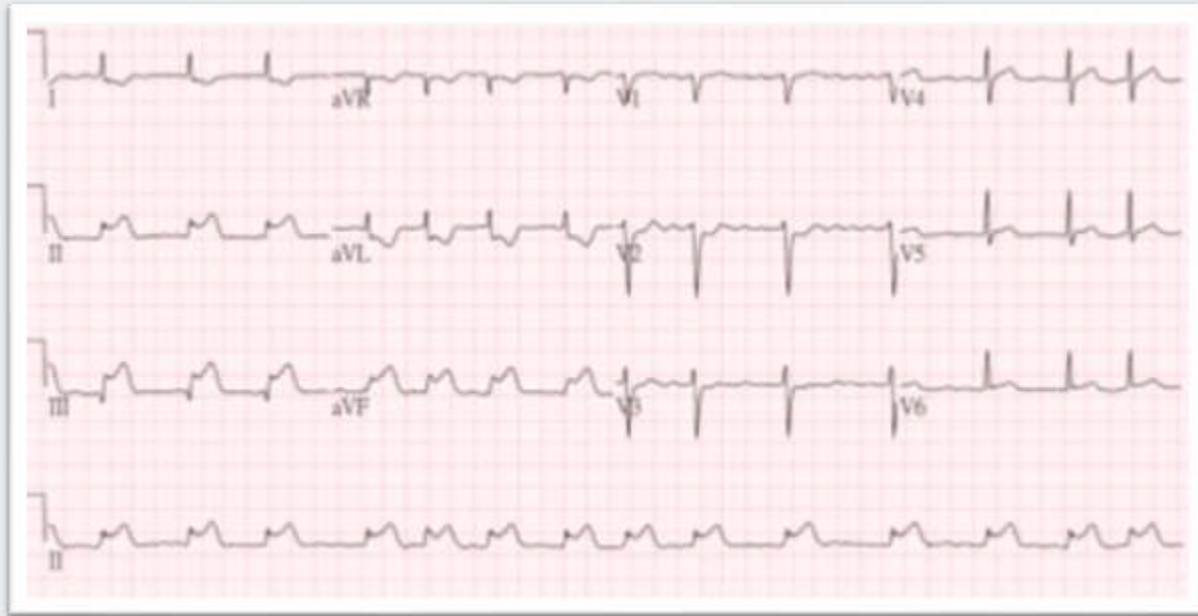
♥ *Ostial stenosis of RCA*

♥ *Good collateral to distal CX*

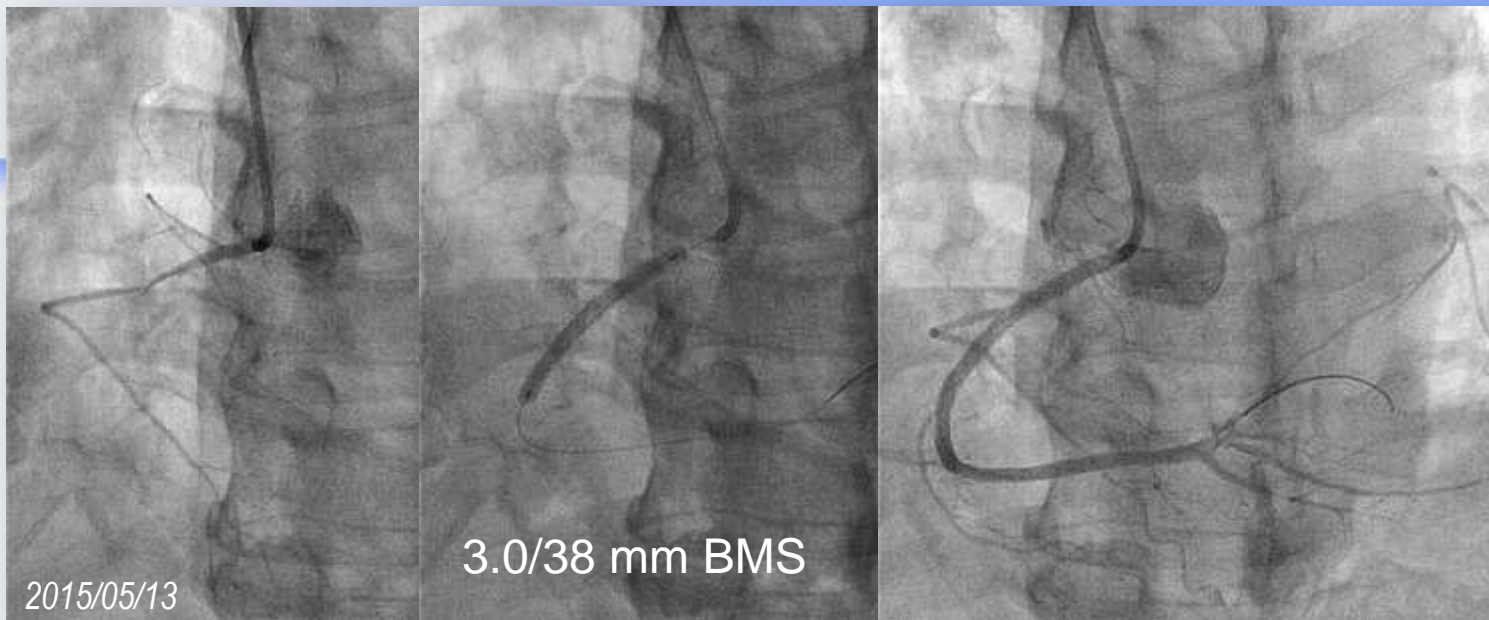


Relevant Past History

- AMI, inferior wall, 3.5 months ago.

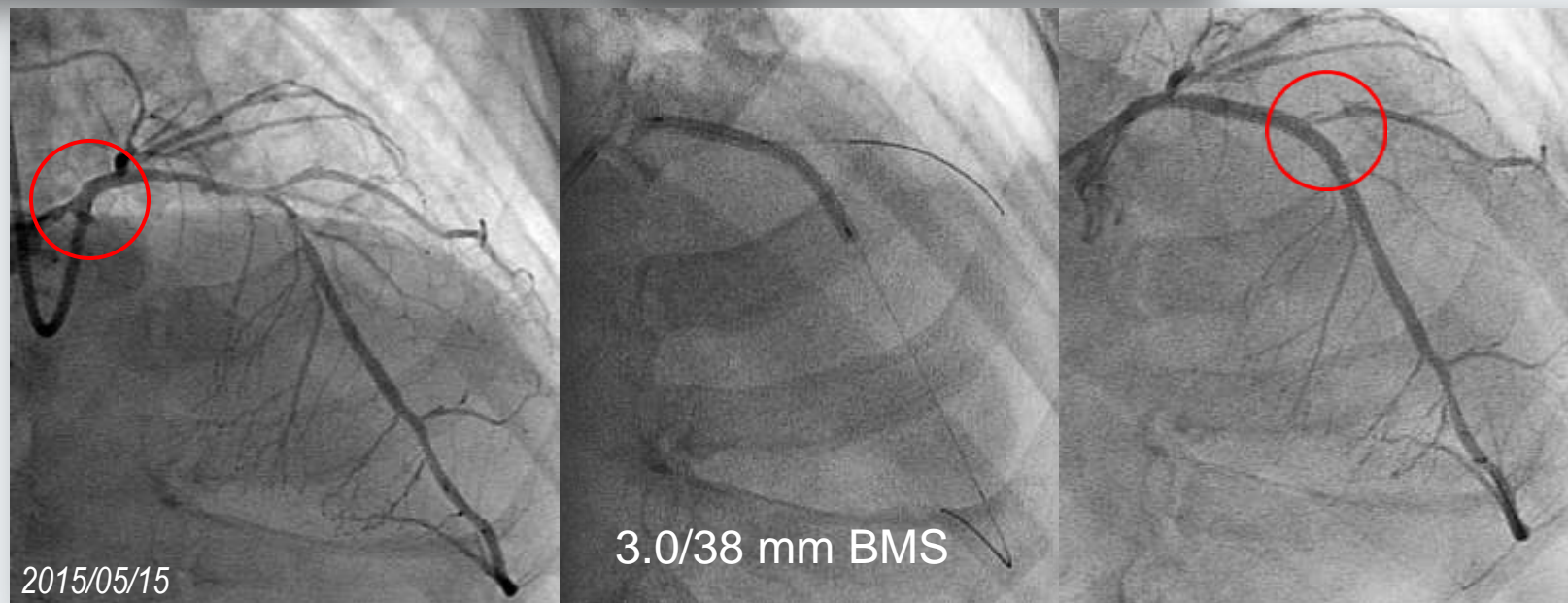


- CAD 3V, including CTO of LCX.
- Primary PCI to RCA (BMS), S2B = 220min, LVEF = 50%
- Elective PCI to LAD 2 days later (BMS)
- DAPT for 1 month, then Ticagrelor & NOAC



3.0/38 mm BMS

2015/05/13



3.0/38 mm BMS

2015/05/15



Summary

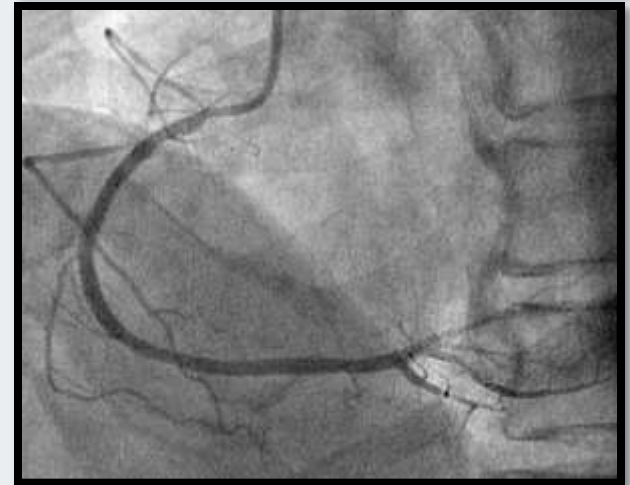
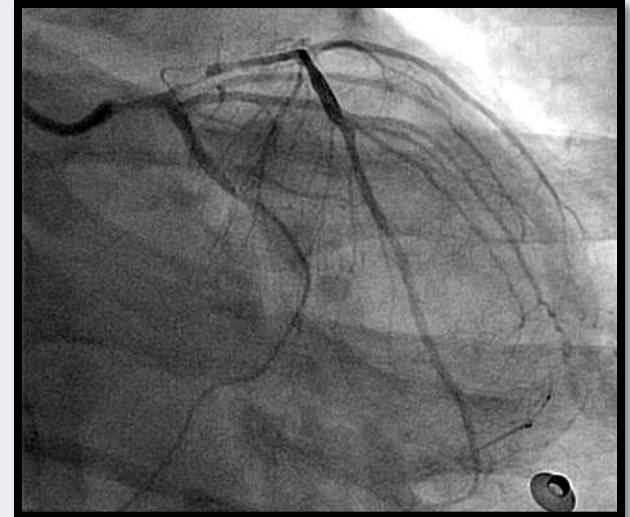
- NSTEMI
 - LM + CAD 3V, with CTO of LCX, and ISR of LAD & RCA
 - Troponin I : 5.8 ng/ml (N < 0.5)
 - LVEF : 44%, (63/47mm)
 - Syntax score : 34.5
 - STS score : Mortality 1.87%
Morbidity or Mortality 21.59%
- Recommend CABG
- Admitted to ICU with Heparin/NTG infusion



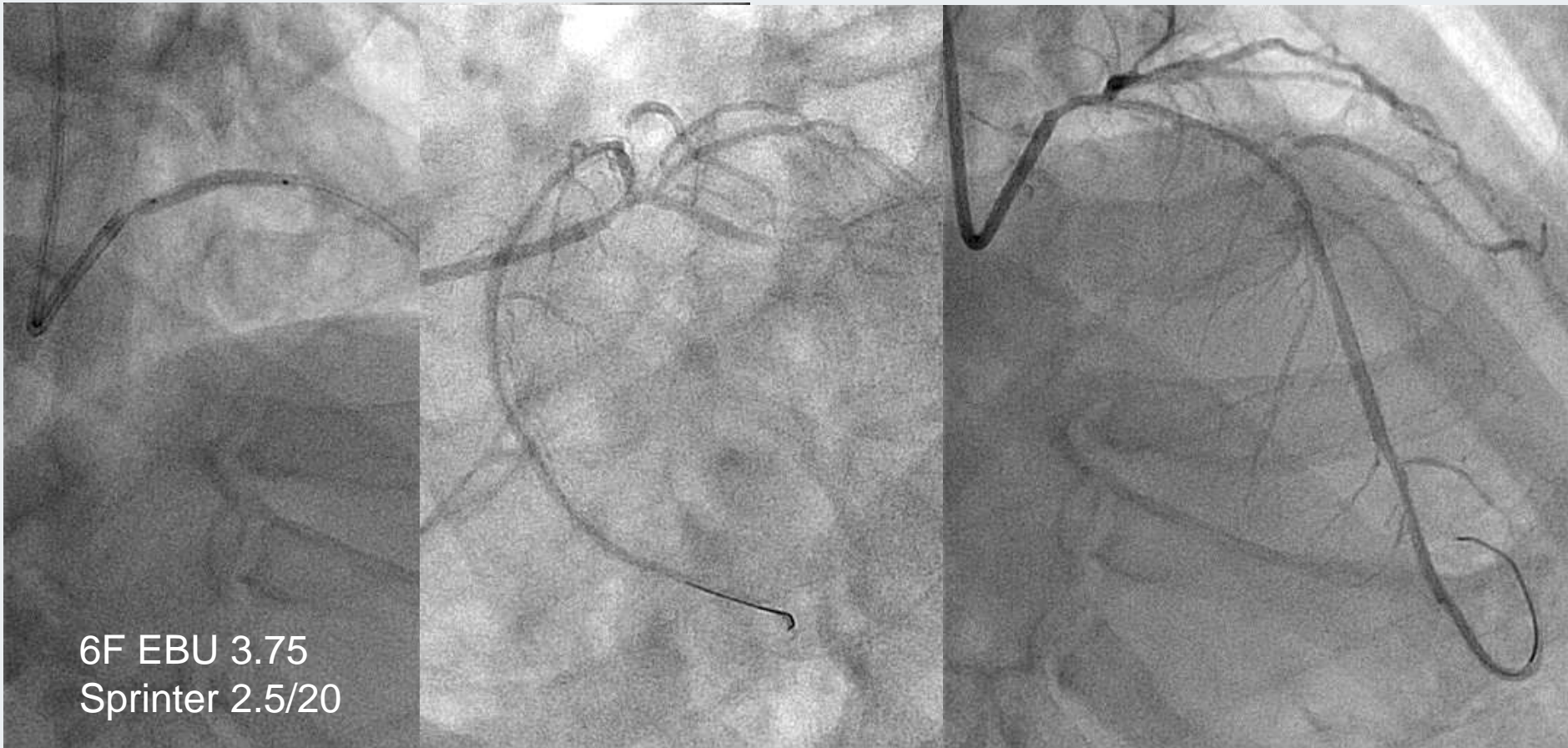
PCI 3 days later

Complete revascularization if possible

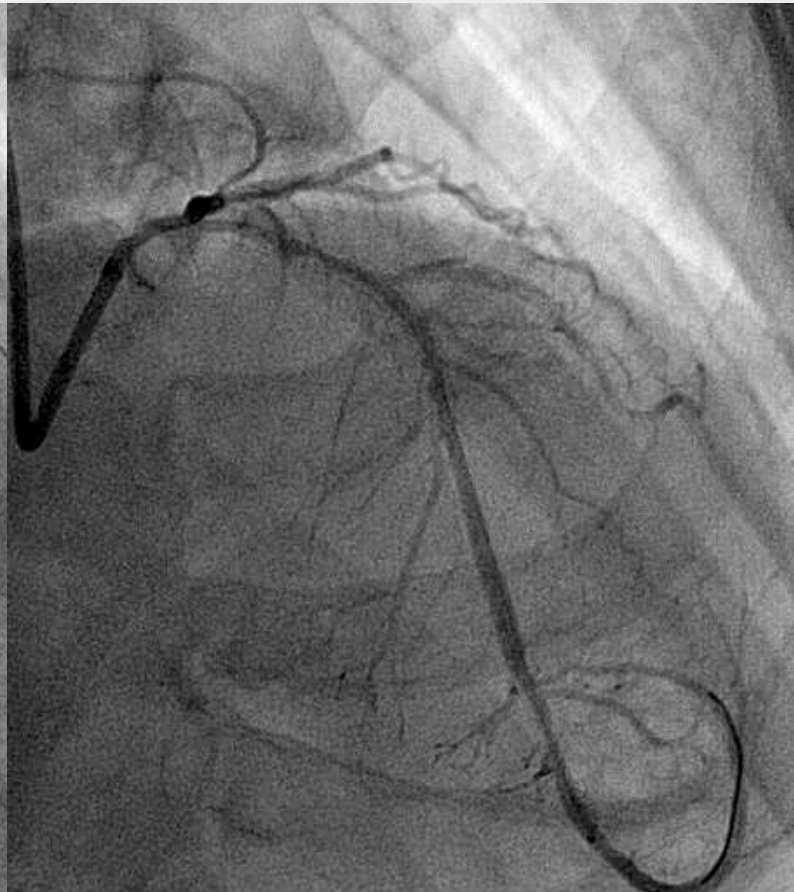
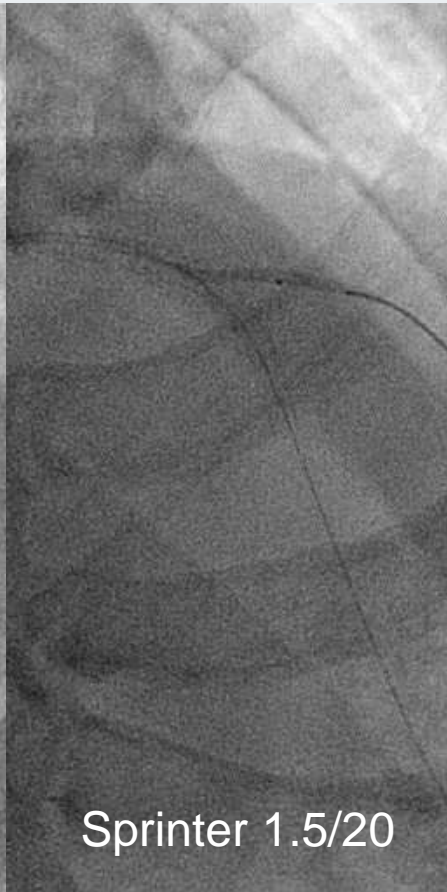
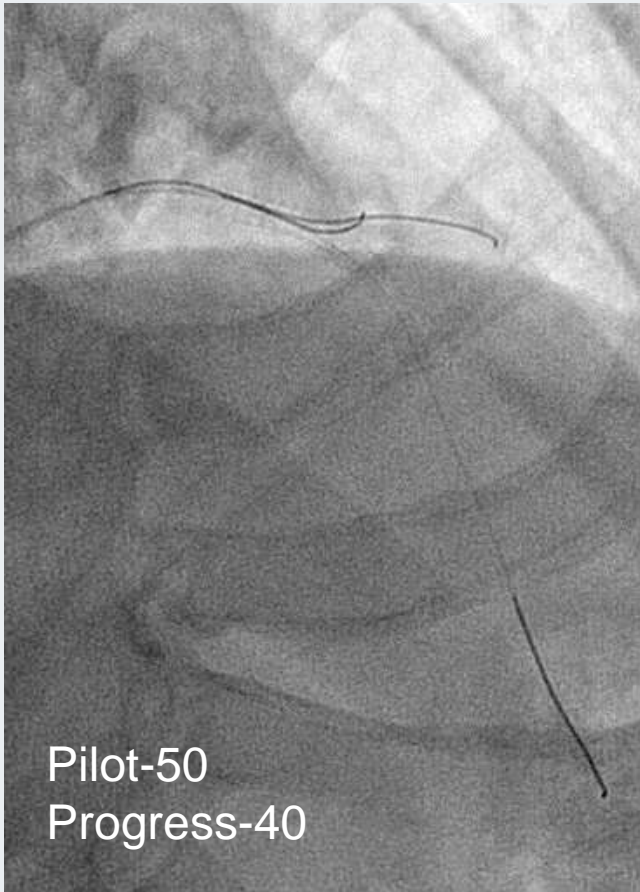
- Which lesion first ?
- One session or two ?
- Radial or femoral ?
- IABP ?
- One stent or two stents for LM ?
- CTO-LCX : Antegrade or retrograde ?



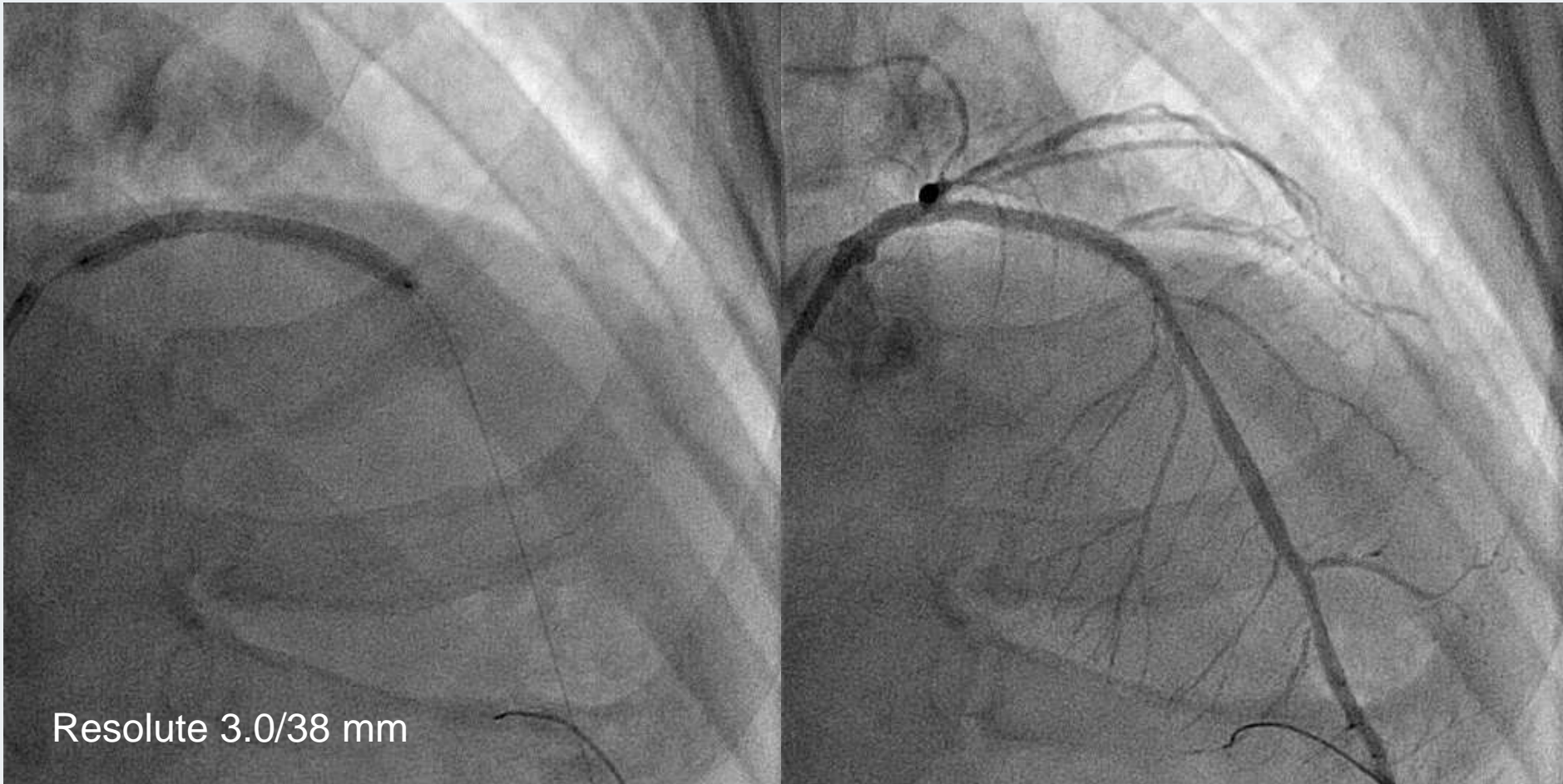
Firstly: Dilated LM with a small balloon



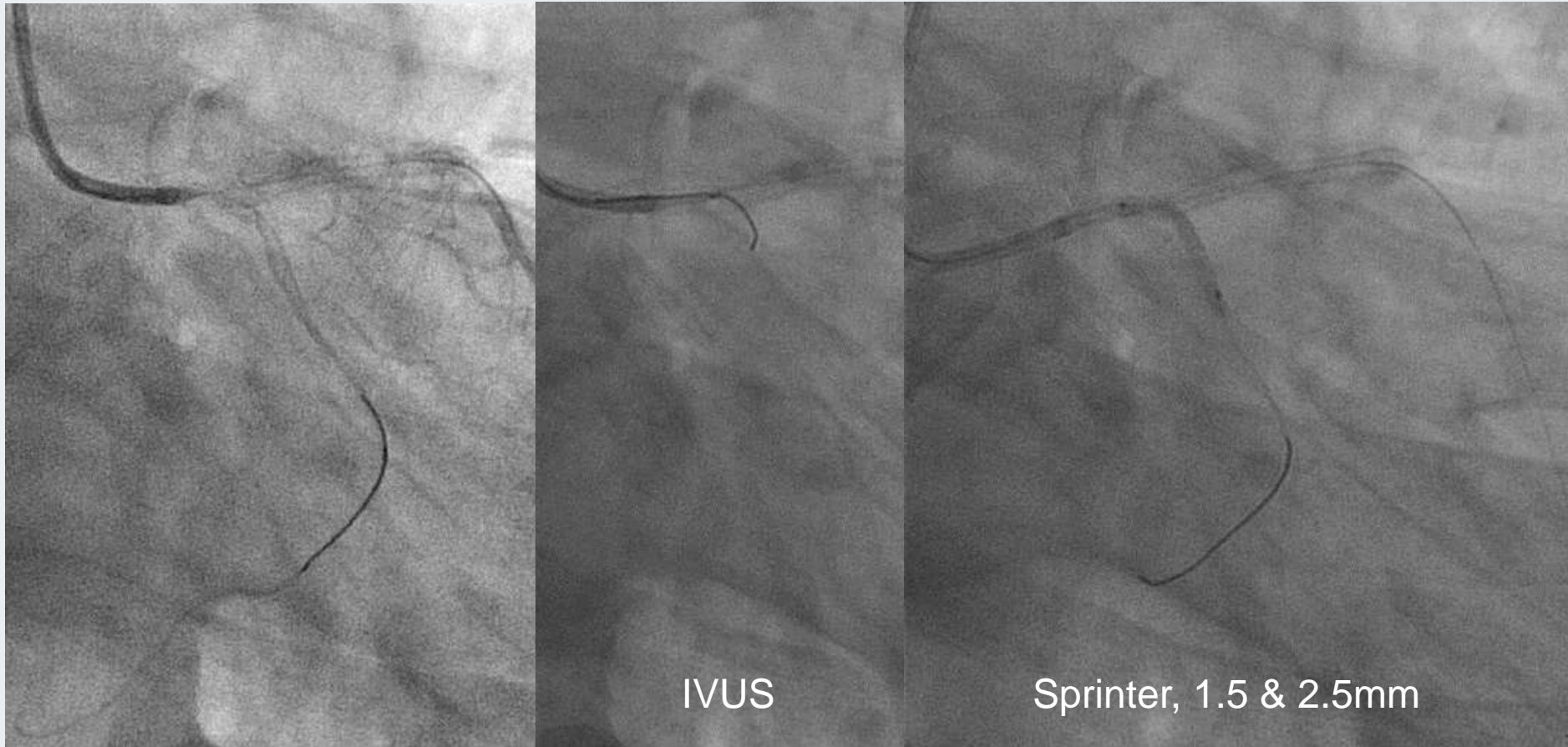
Tried to treat Dx but failed

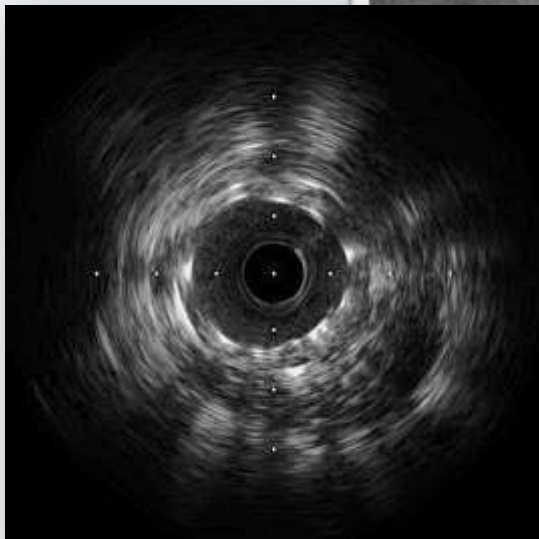
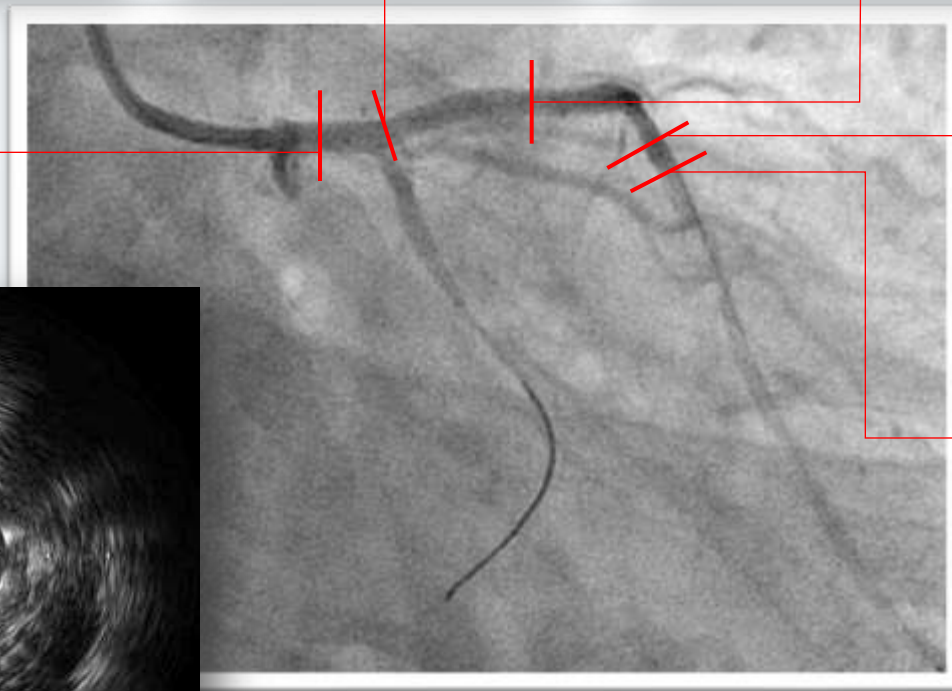
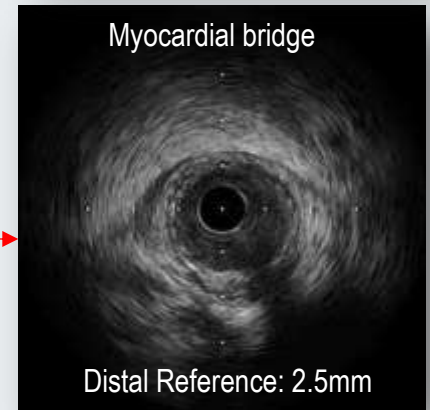
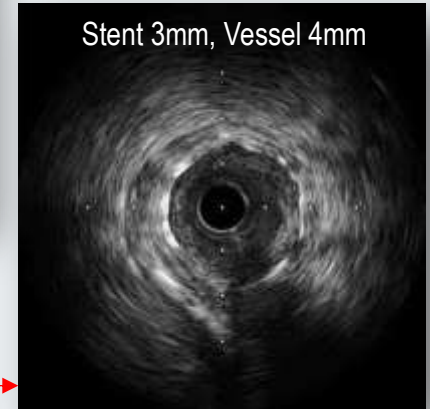
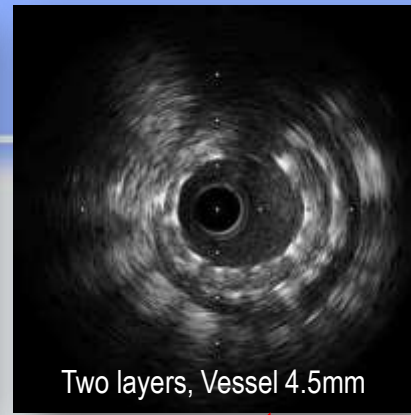
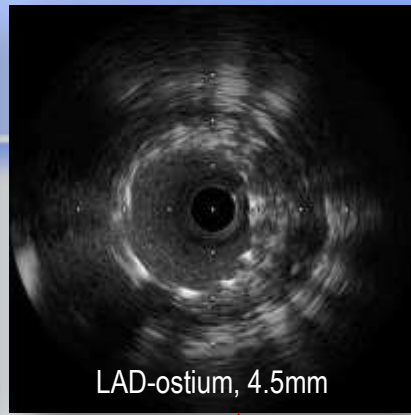
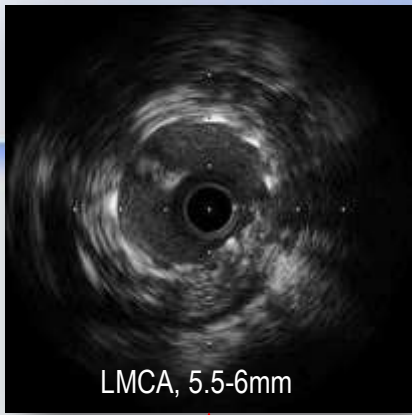


A long DES from LM-ostium



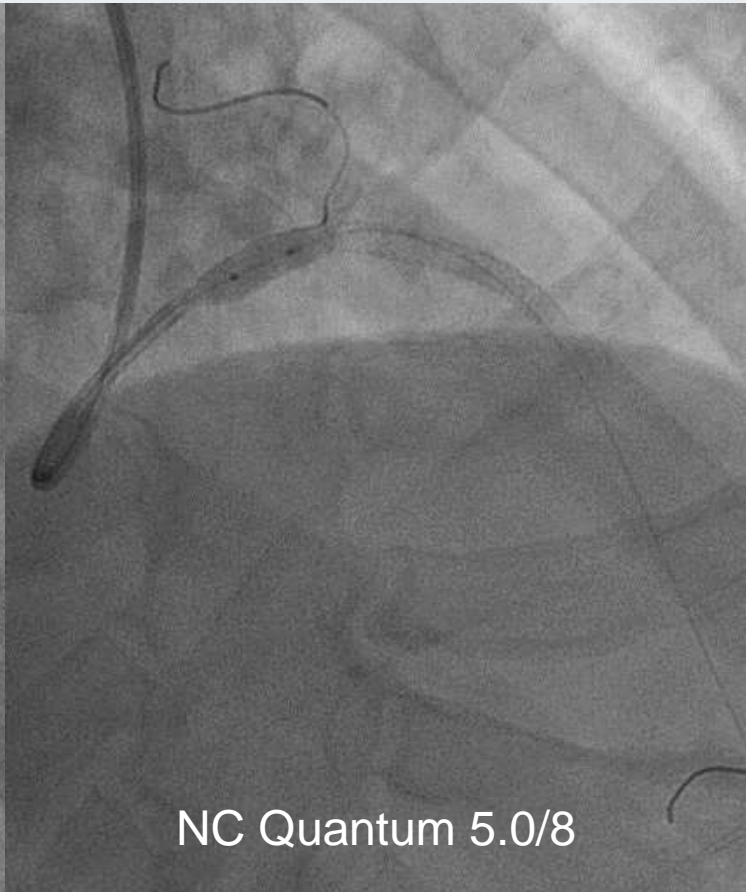
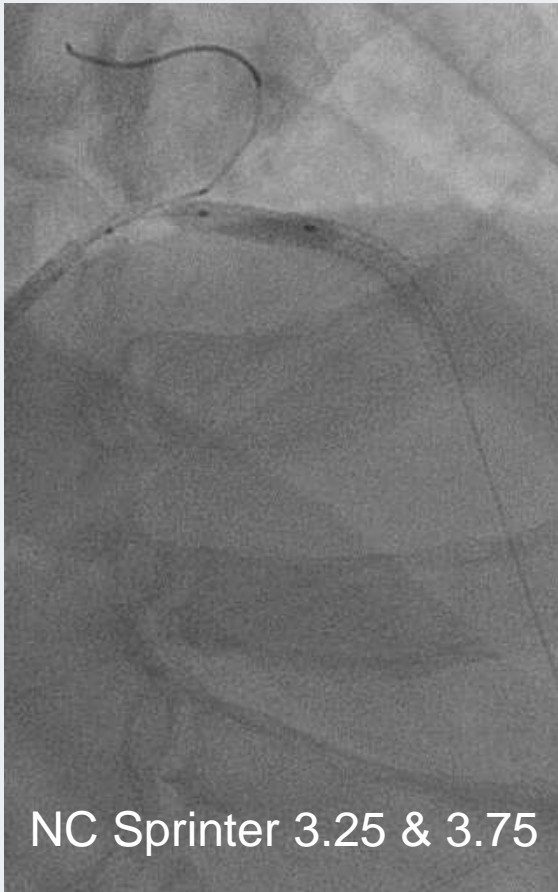
Wiring of CX through distal cell, confirmed by IVUS



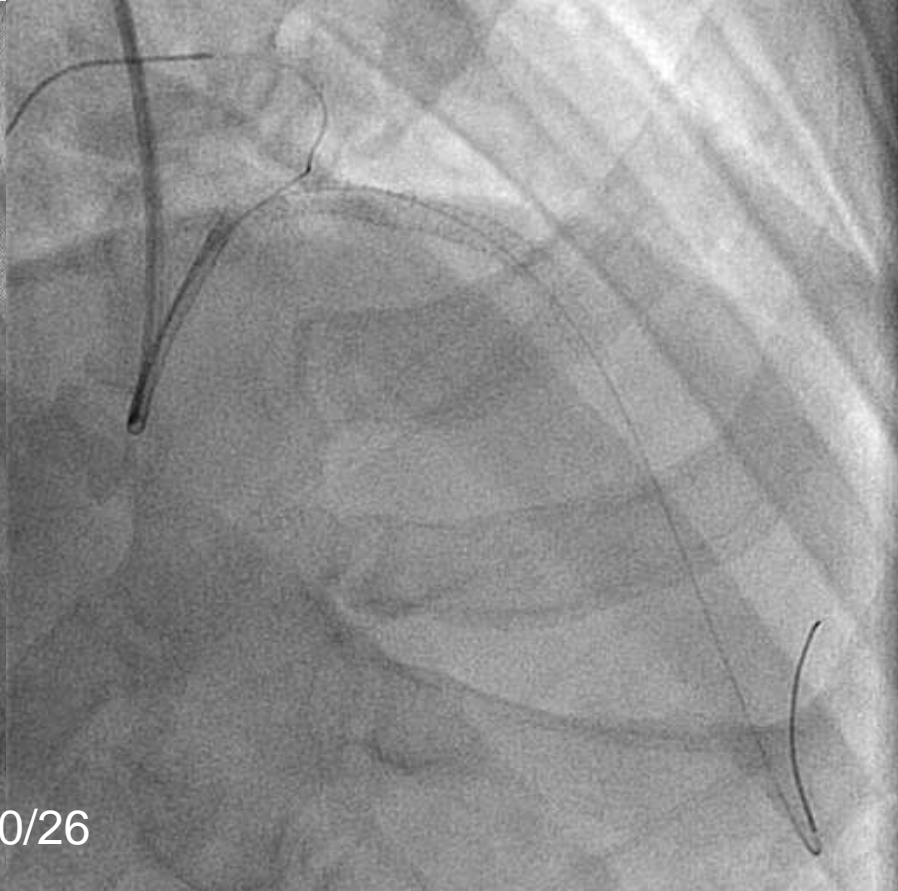
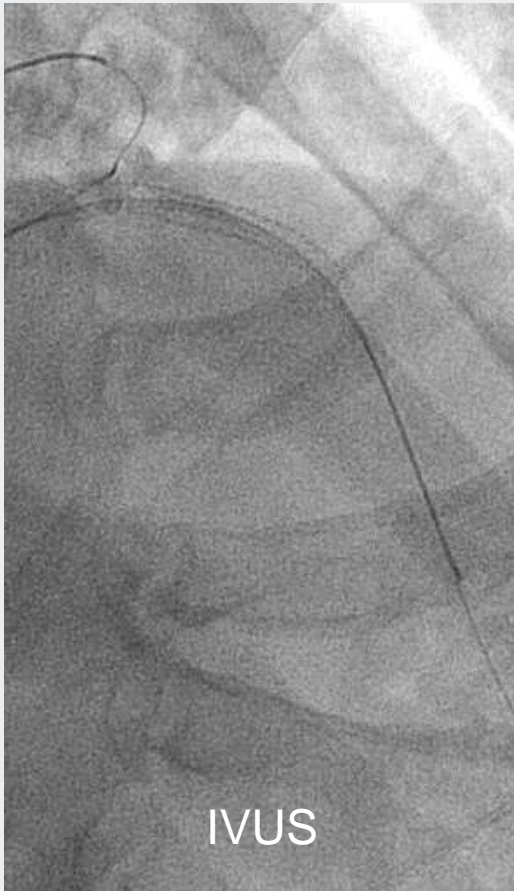


Crossed the proximal cell

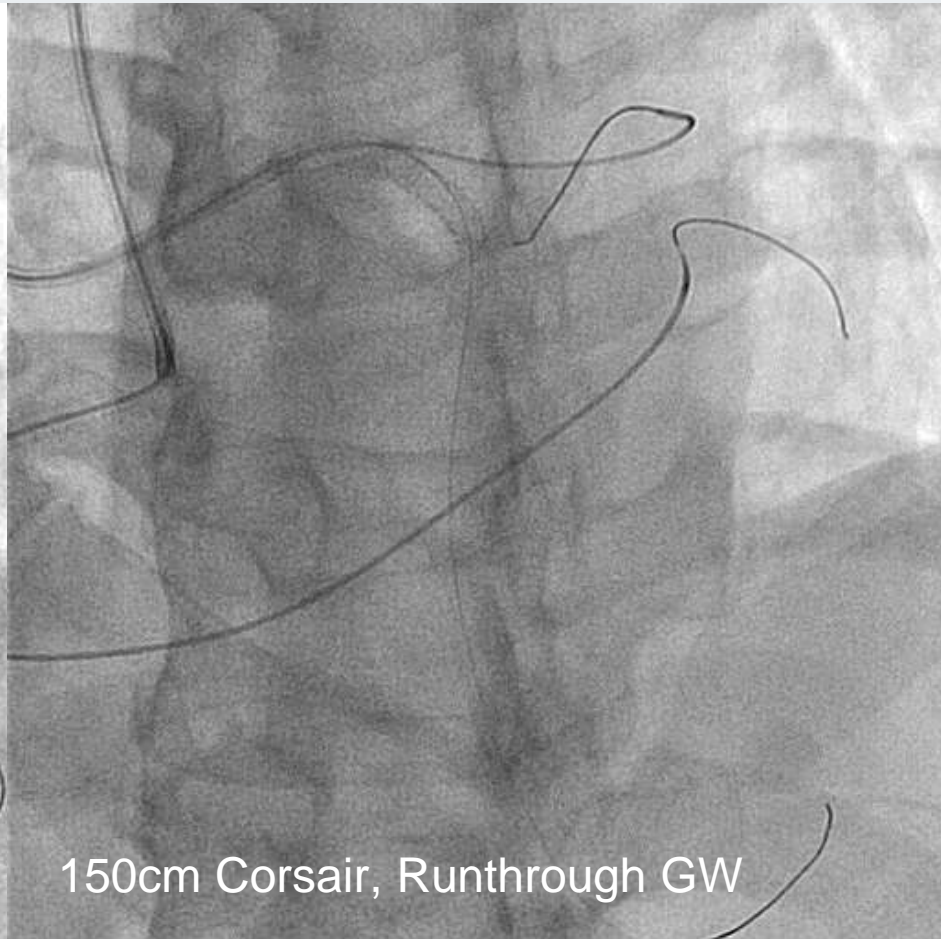
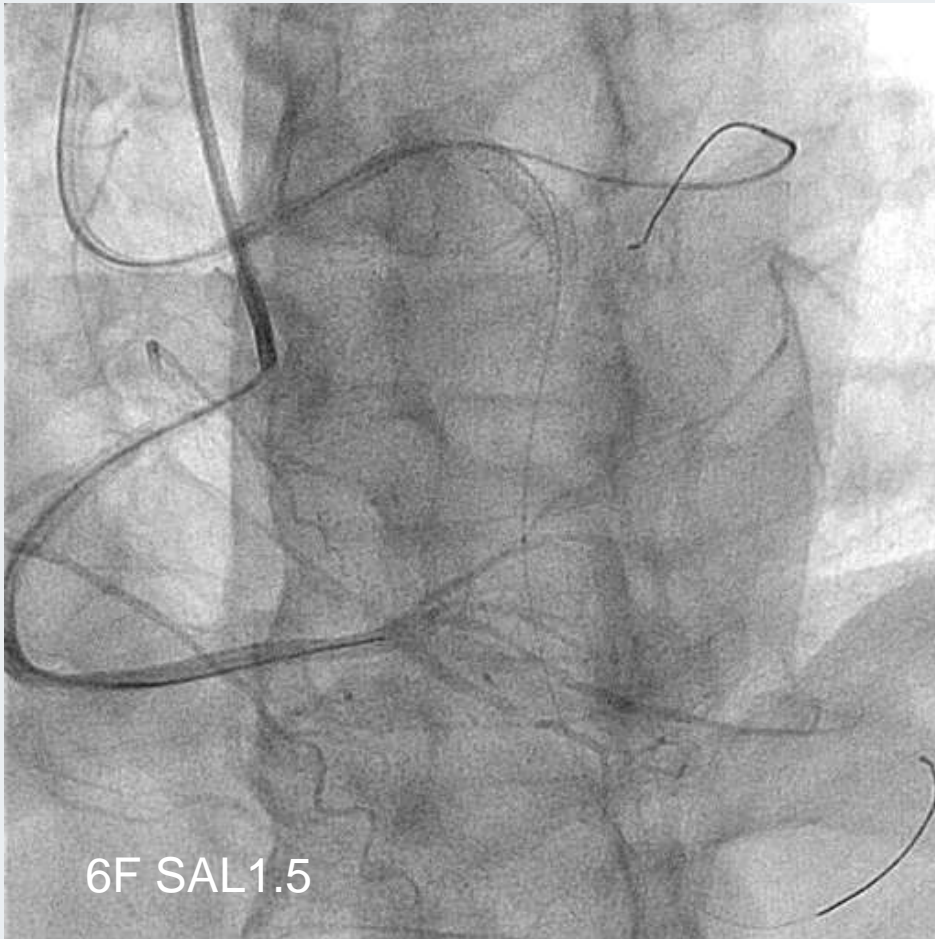
Optimized the LM-LAD stent by KBT & POT

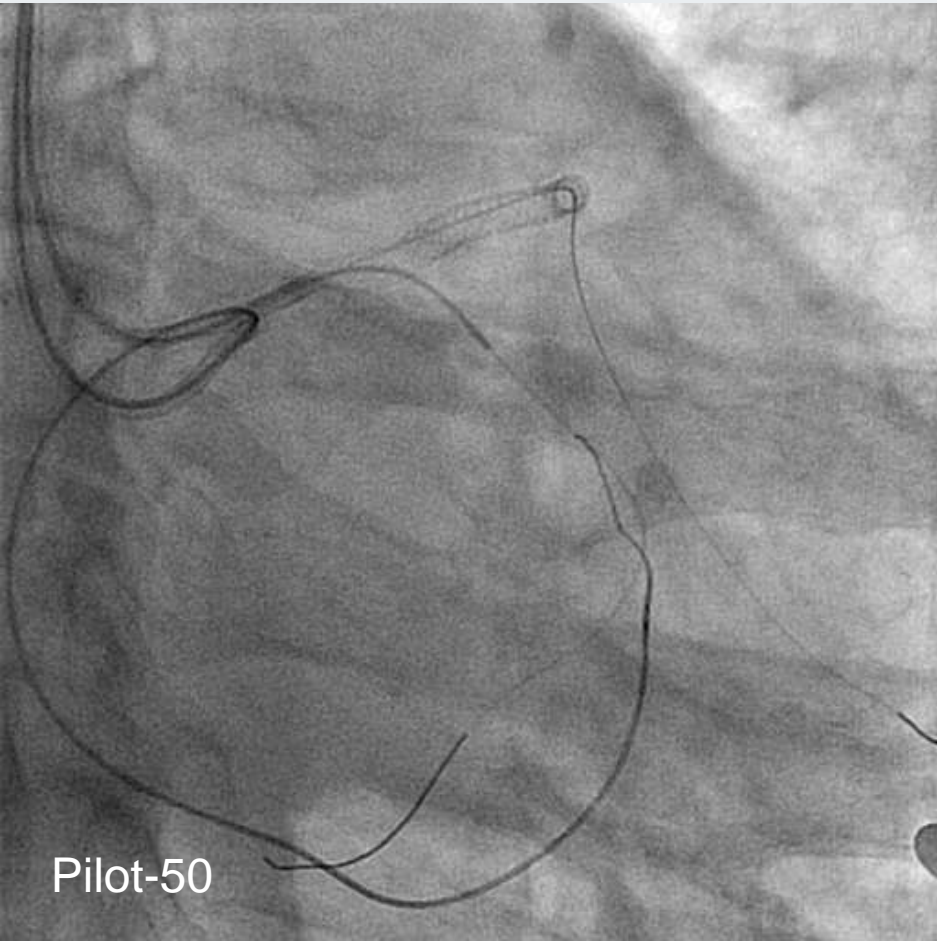
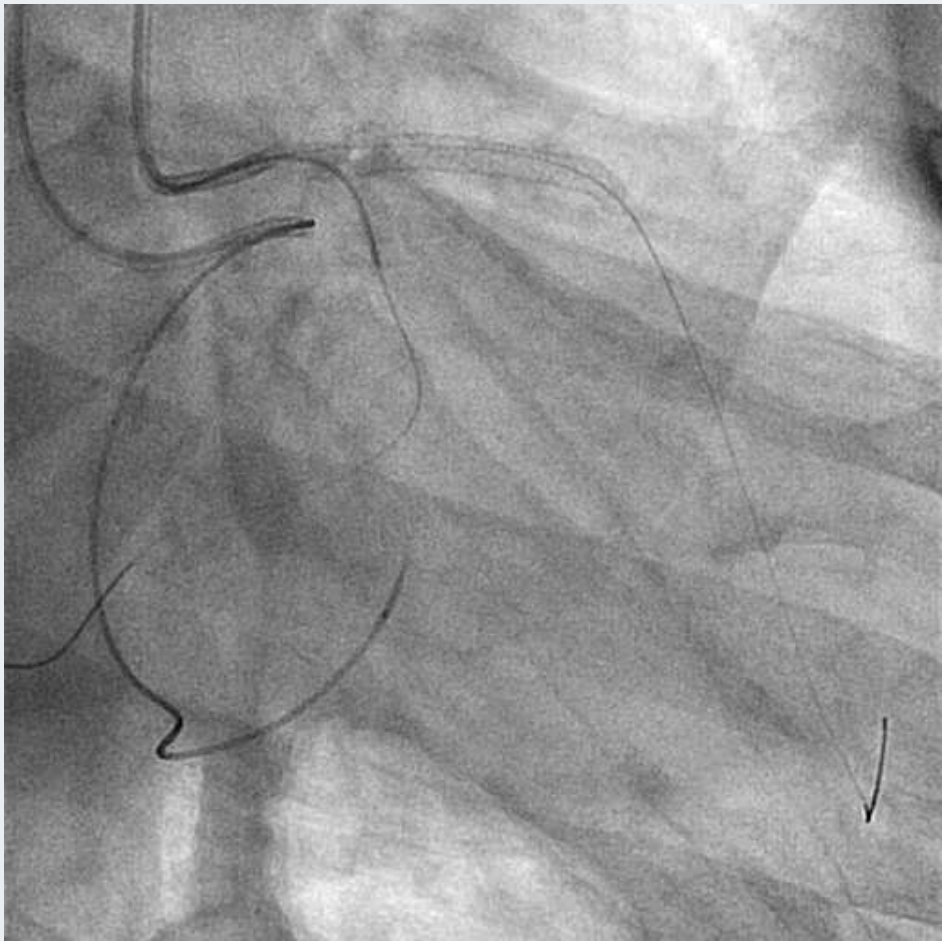


To treat residual lesion of LAD (ISR) with a DEB



Retrograde approach of LCX-CTO





Pilot-50

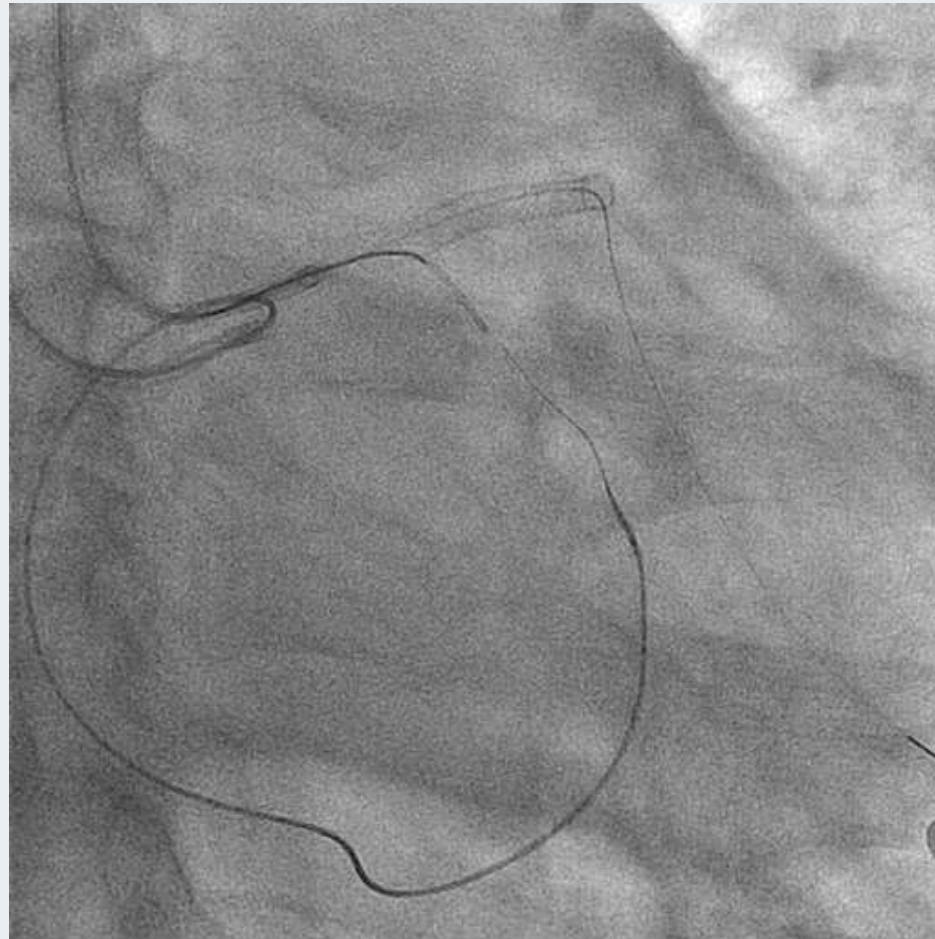
2.4F Progreat (Terumo)

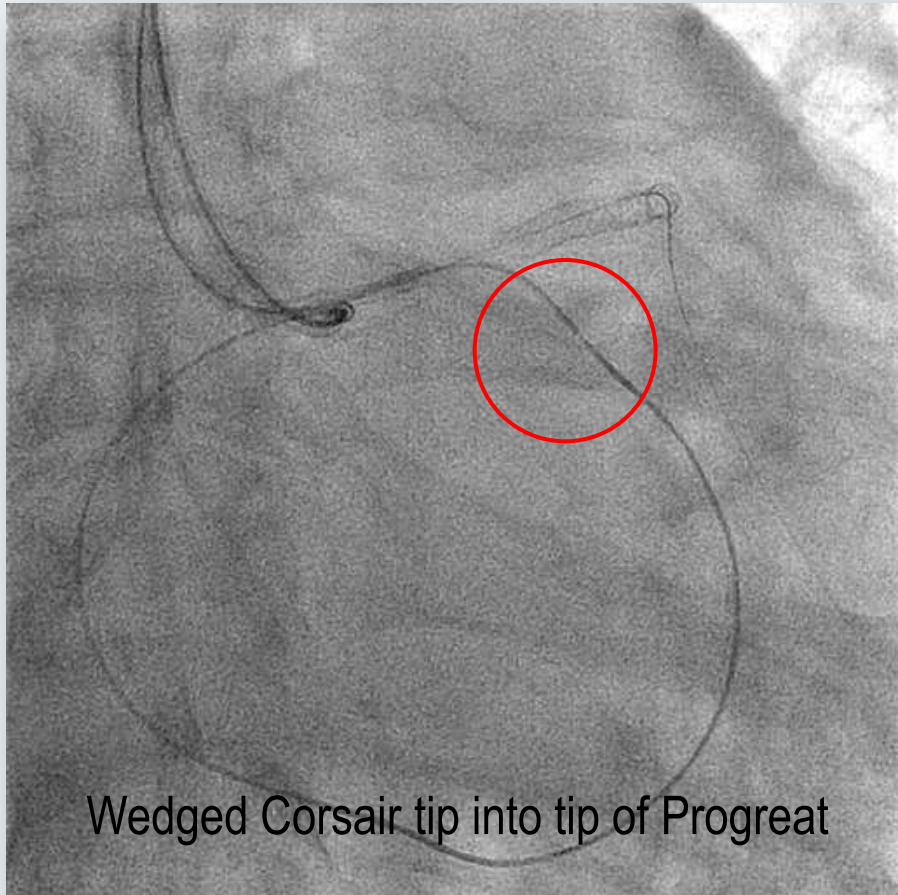


Wired through by Wizard-78

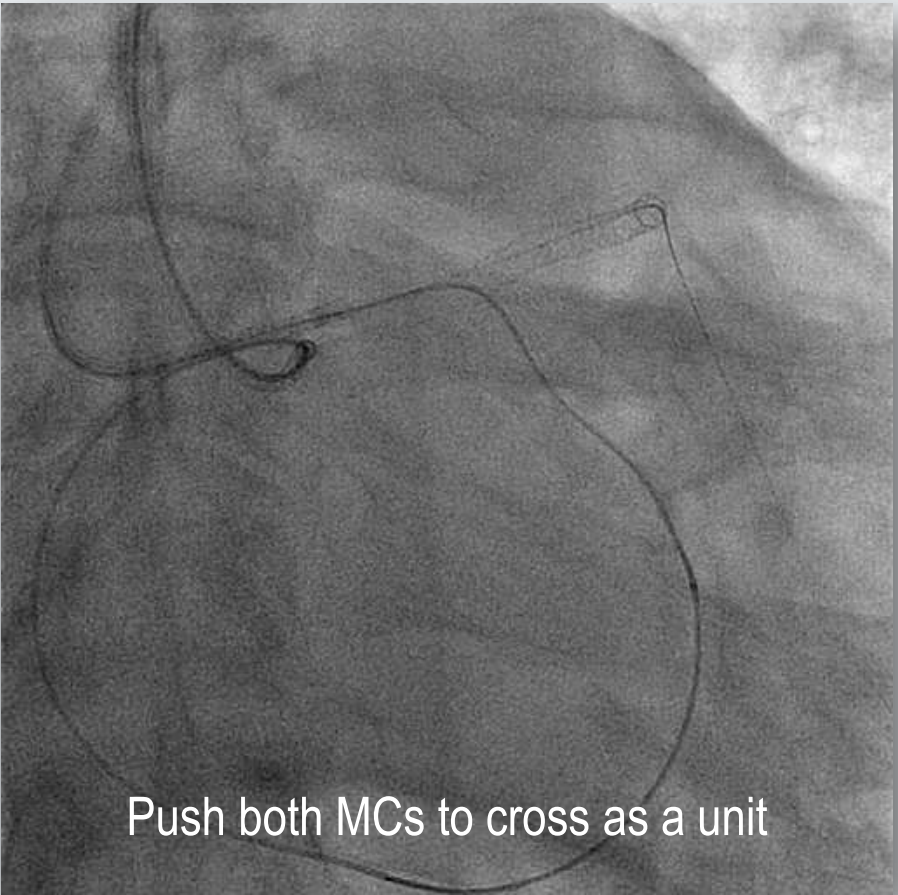
Confirmed by angio

Rendezvous: Wizard 78 wired into the antegrade Progreat MC



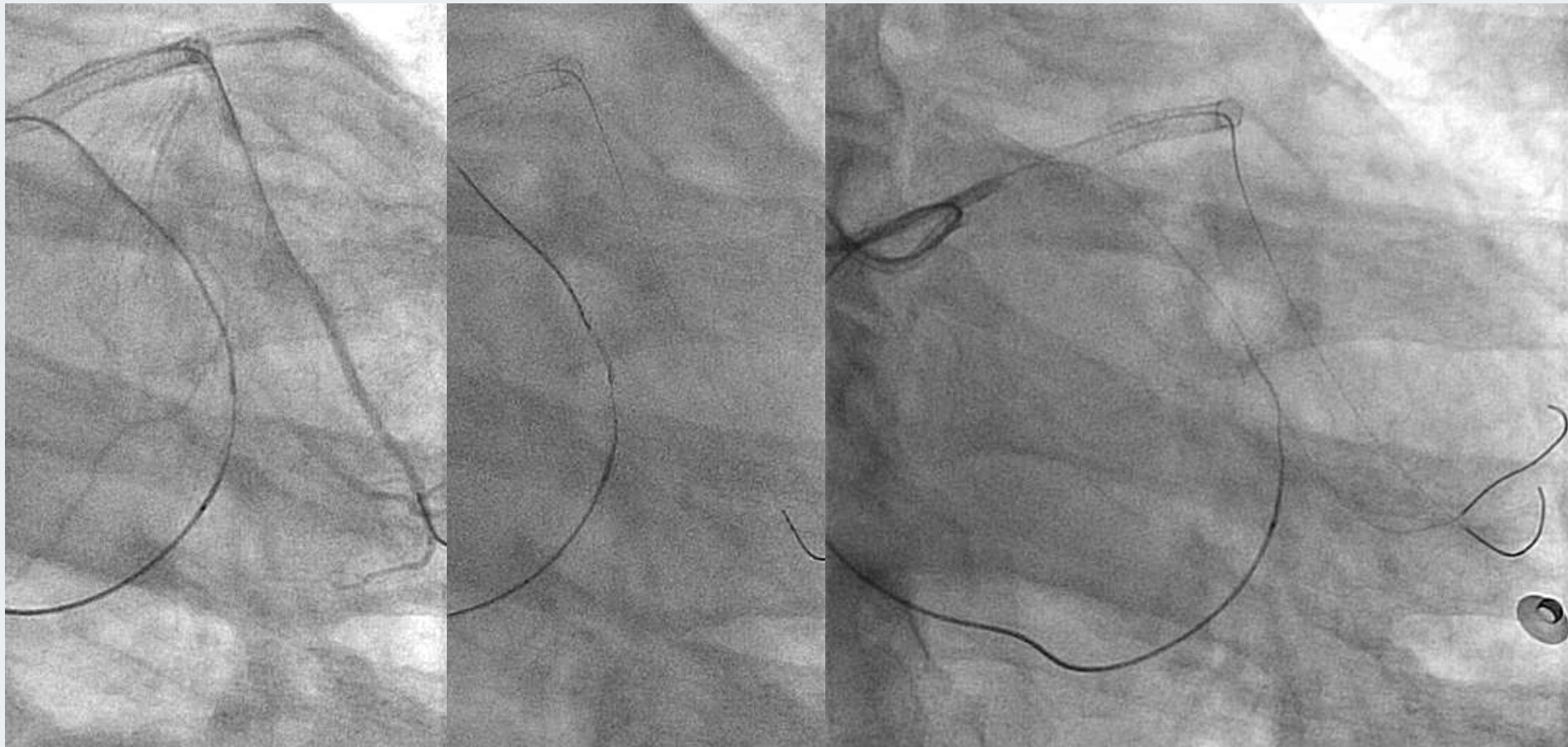


Wedged Corsair tip into tip of Progreat

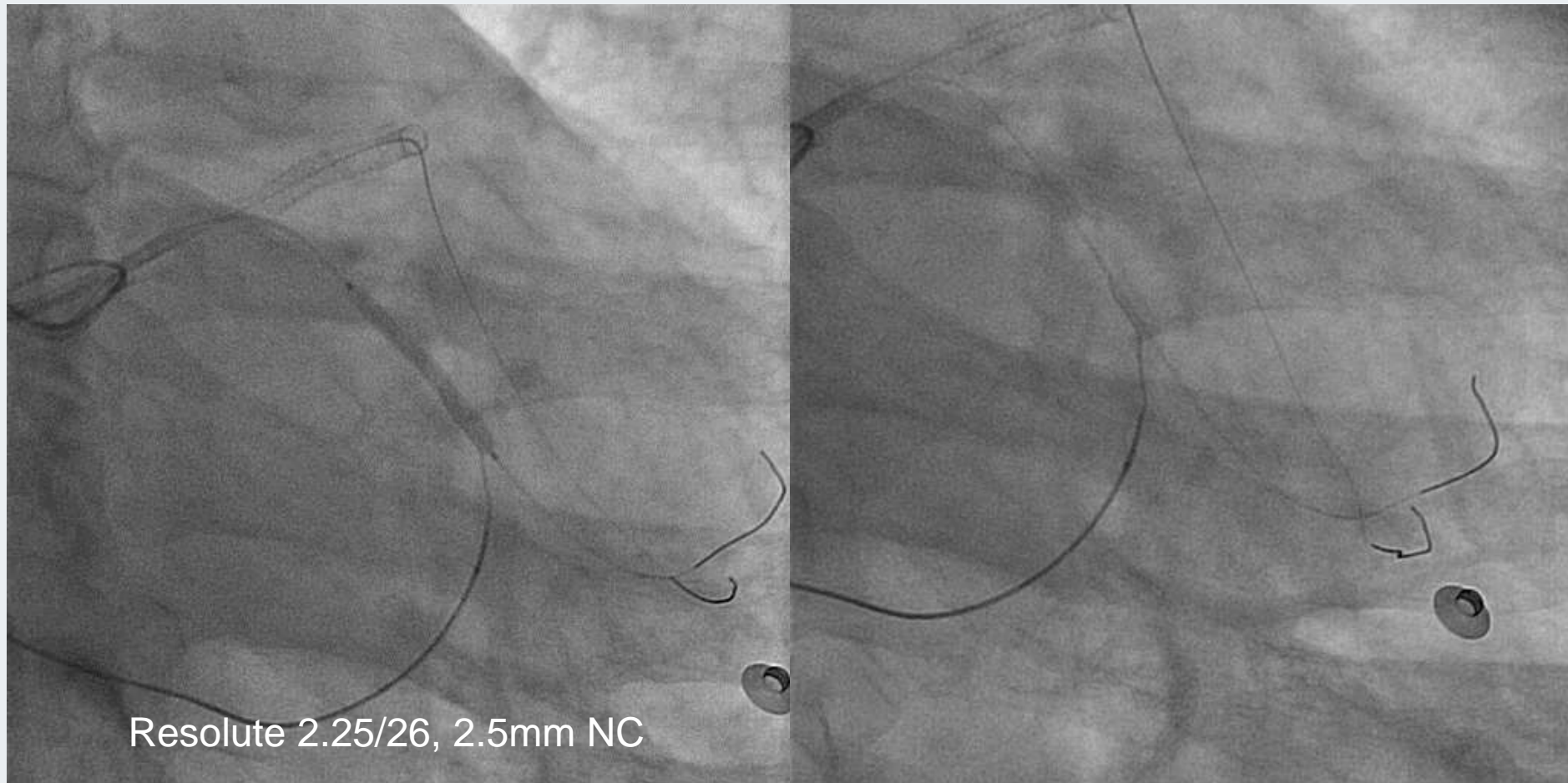


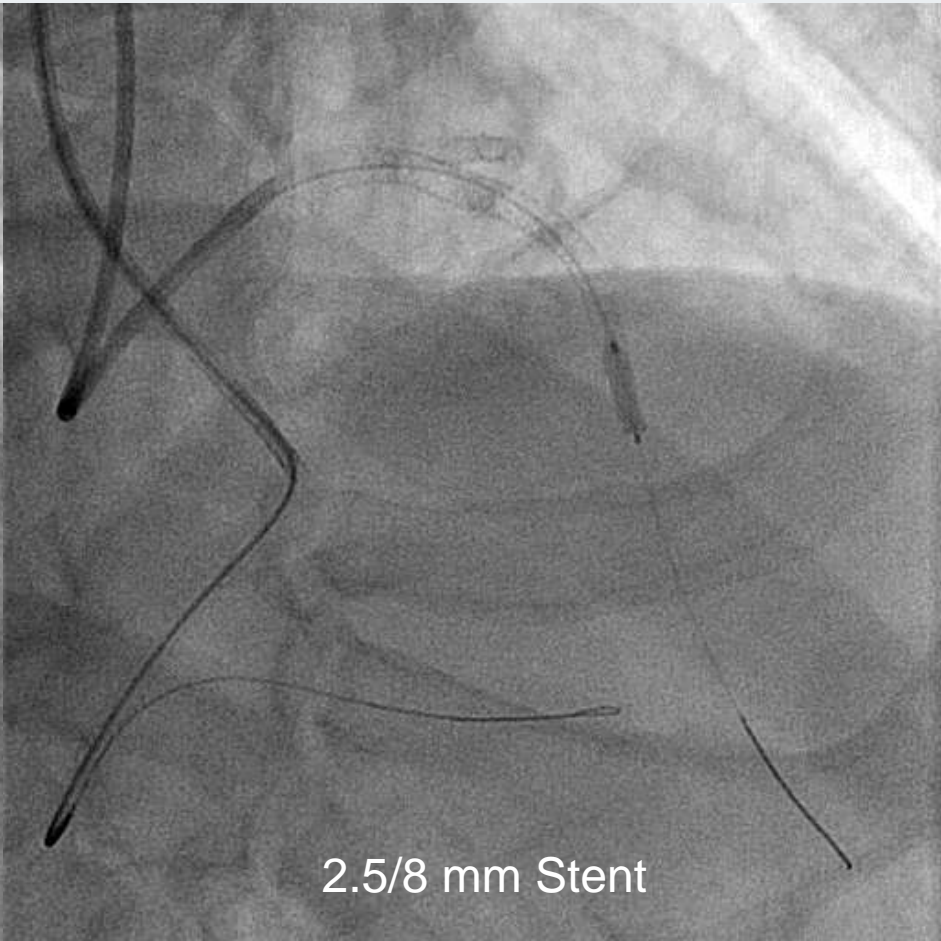
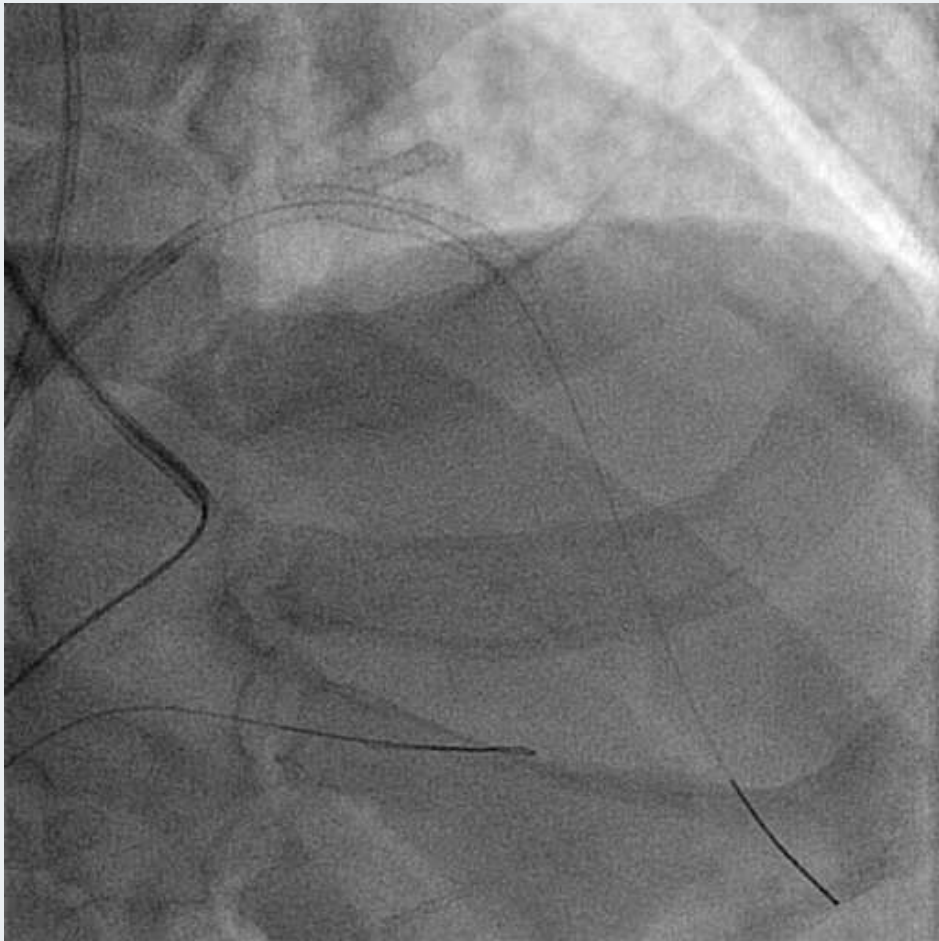
Push both MCs to cross as a unit

Wiring of OM branch through Progreat



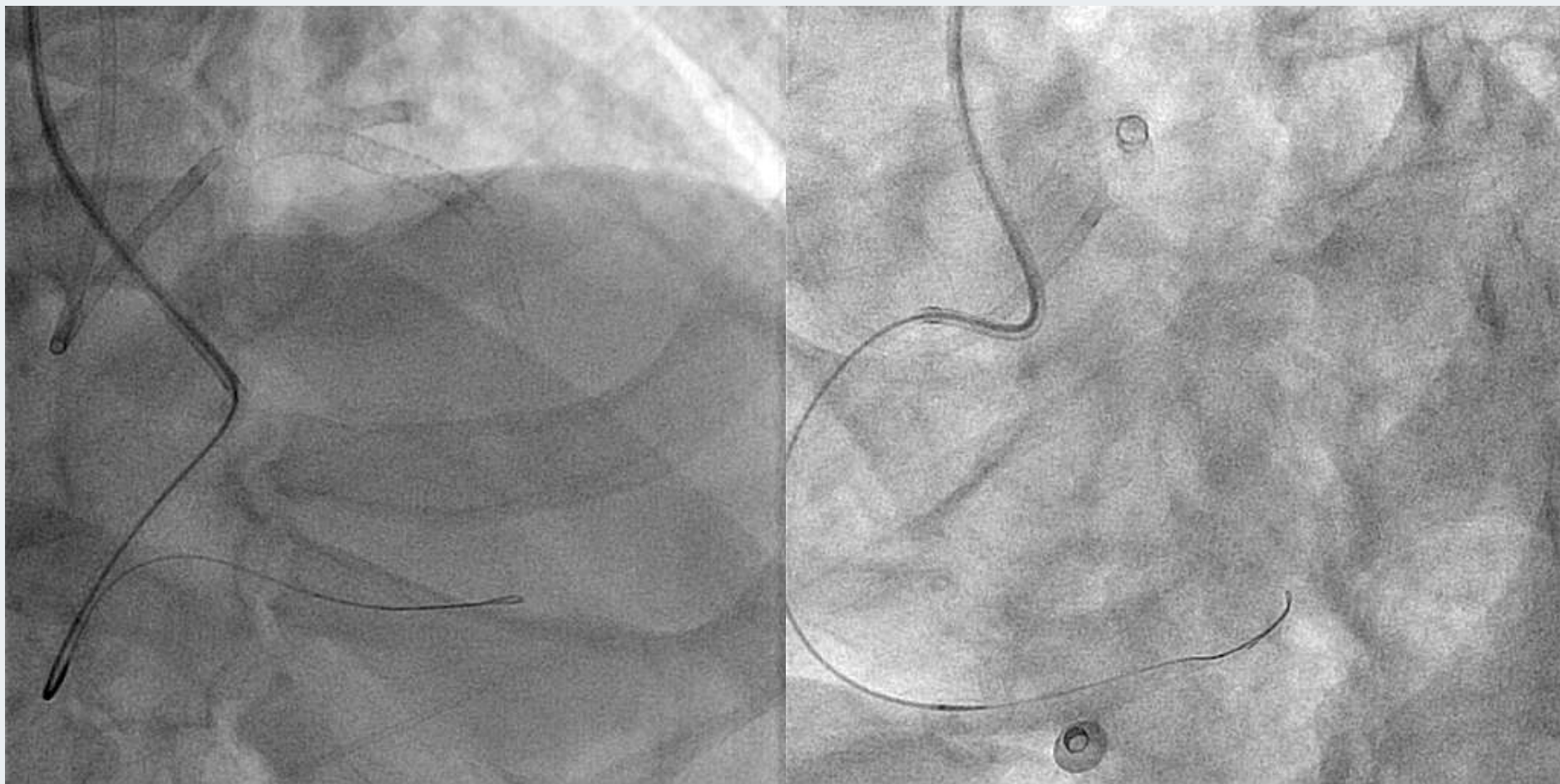
Stenting of CX into its major branch



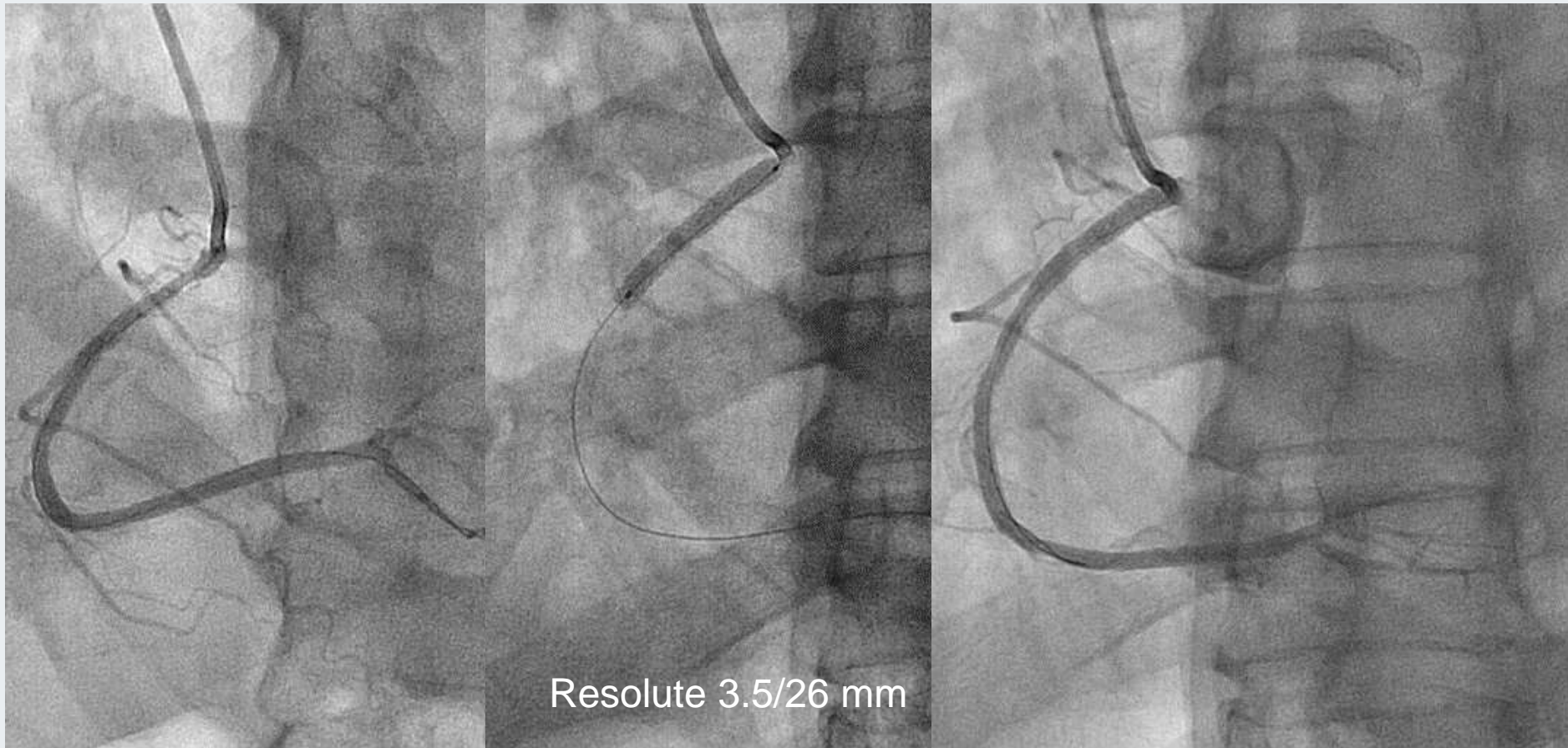


2.5/8 mm Stent

Final result of LCA



Final touch: Stenting of RCA-ostium





Summary of the Case

- One stent cross-over for LM (medina 1,1,0), with KBT and POT
- 6F catheters were chosen, because
 - Avoid further injury of LM
 - Stronger back up was not needed
 - Two stent strategy was not needed
 - IVUS guided wiring was not needed
- CTO-CX: retrograde approach was chosen because
 - Ambiguous stump, side branch
 - Very good collateral channel
- Complete revascularization was achieved (almost)
- Discharged 4 days later with triple therapy
- No MACE at 8 months' FU